2022 ANNUAL REPORT
MS4 GENERAL PERMIT

City of Shelton, Connecticut
GSM000045

April 01, 2023

Prepared By:

ENVIRONMENTAL PARTNERS
— An Apex Company —

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City of Shelton, Connecticut

Introduction

The following 2022 Annual Report has been prepared in accordance with the requirements of the CT DEEP General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4). Stormwater activities conducted by the City of Shelton are detailed in this report for the calendar year 2022 and show the progress the City has made toward implementing its goals outlined within the 2017 Stormwater Management Plan (SWMP).

This report has been posted on the City of Shelton's website for the residents of the City of Shelton to review. In addition, a paper copy is available upon request at the Engineering Department on 54 Hill Street. The public review and comment period occurred during a forty-five day period between February 15, 2023 and March 31, 2023, prior to the draft being finalized and submitted electronically to the CT DEEP before April 01, 2023. Even though the official public comment period is over, residents are still encouraged to send comments to Rimas Balsys at r.balsys@cityofshelton.org.

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MS4 General Permit
City of Shelton 2022 Annual Report
Existing MS4 Permittee
January 1, 2022 – December 31, 2022
Primary MS4 Contact: Rimas J. Balsys, City Engineer, r.balsys@cityofshelton.org

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This report documents City of Shelton's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2022 to December 31, 2022.

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

BMP	**Activities in current reporting period**	**Source Used** (if applicable)	**Method of Distribution**	**Audience and number of people reached**	**Measurable goal**	**Department / Person Responsible**	**Additional details**
1-1 Implement public education and outreach	No public meetings held in 2022 due to COVID-19 concerns. The next public meeting will be completed in April 2023.	City Documents	Public Meeting	Residents	Conduct a public meeting in each year of the permit to inform the residents and discuss the program	City Engineer	
1-2 Address education/outreach for pollutants of concern*	Previous year's annual report was posted to the stormwater website. The City maintained educational pamphlets at City Hall, the Community Center, and both Libraries, including information on septic system care, illicit	City Documents	Website and website banner	Residents	Post to stormwater website Distribute annual messaging in accordance with the City's	City Engineer	http://cityofshelton.org/public-works/storm-water-management/ http://cityofshelton.org/waste-disposal-recycling/

	discharges, soil erosion, animal waste, lawn care, and pesticides. The City continued to maintain its Waste Disposal & Recycling page on its website. Information on hazardous waste, hazardous waste collection as well as leaf collection and disposal was provided				phosphorus, nitrogen, and bacteria impairments		The Town is looking into implementing a click-counter to track the number of residents that engage with stormwater public education material
1-3 Literature Distribution	Website continues to be operational and current	Various	Website	Residents, Business/commerce, students, staff, contractors, etc.	Develop stormwater website	City Engineer	http://cityofshelton.org/public-works/storm-water-management/
1-4 Storm Drain marking/Stenciling	The catch basin stenciling program will be kicked-off next year with support from a consulting company and volunteers	N/A	Catch Basin Stenciling	Residents, Business/commerce, students, staff, contractors, etc.	Provide stenciling materials to volunteer groups	Superintendent of Highways and Bridges	
1-5 *Additional BMP:* Post stormwater and IDDE ordinances to City website	Maintained website with stormwater ordinances	N/A	Website	Residents, Business/commerce, students, staff, contractors, etc.	Post pertinent stormwater ordinances to City website to be viewable by residents, as stated in the SWMP	City Engineer	http://cityofshelton.org/documents/

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

The City is in the process of rolling out a revamped website. A number of stormwater reports and educational materials are waiting to be uploaded, once the stormwater webpsge goes live. The new website will host a link to UCONN's Nonpoint Education for Municipal Officials (NEMO), as well as the City's Stormwater Management Plan and stormwater educational materials.

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	Date completed or projected completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan (SWMP)	Completed	The Stormwater Management Plan is available at the City Engineering Department. Once the City website gets revamped, it will be added to the website for public viewing	Post to stormwater website	City Engineer	Annually	
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	Completed	Draft 2022 Annual Report posted to website along with a banner alerting residents that the draft annual report was available	Post to stormwater website	City Engineer	Annually	
2-3 Conduct a Household Hazardous Waste (HHW) Collection day annually	Completed	Publicized and conducted HHW Day	Hold annual HHW Day	Director of Public Works	Annually (October 22, 2022)	
2-4 *Additional BMP:* Host annual Shelton Clean Sweep	Completed	The Shelton Clean Sweep Program ran events during Earth Week in April 2022	Host clean-up events	Shelton Anti-Litter Committee	Annually (April 16, 2022 to April 24, 2022)	http://donttrashshelton.org/Clean%20Sweep.html
2-5 *Additional BMP:* Maintain "Don't Trash Shelton" website, host discussion board, and sponsor clean ups and adopt-a-street programs	Completed	"Don't Trash Shelton" website was maintained; Shelton Anti-Litter Committee continued to organize clean-ups and the adopt-a-street program	Ongoing Shelton Anti-Litter Committee operations	Shelton Anti-Litter Committee	Ongoing	http://donttrashshelton.org/index.html
2-6 *Additional BMP:* Host annual Housatonic River Clean Up/Green Sweep	Completed	The annual Housatonic River Clean-Up was hosted and publicized	Over 130 regional residents participated	Housatonic River Clean Up, Inc.	Annually (May 1, 2022)	http://www.housatonicrivercleanup.org/
2-7 *Additional BMP:* Recognized local residents and groups for their clean-up efforts	Completed	Local residents and groups are recognized for their clean-up efforts annually; 26 local events were officially recorded between April 13, 2022 and August 15, 2022	Publish recognitions online; 108.5 bags or about 1410.5 gallons of trash removed	Shelton Anti-Litter Committee	Annually (Spring/Summer 2022)	http://donttrashshelton.org/recognitions.html

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

The City re-introduced some opportunities in 2022, including a the annual Touch-a-Truck event, held on July 31, 2022. The City plans to continue all its public involvement/participation initiatives next year.

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	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
3-1 Develop written IDDE program (Due 7/1/19)	Completed	The IDDE Plan is updated as needed	Draft Plan	City Engineer	May 2020	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	Completed	Maps are available at the Highway Department and Engineering Department	Make both a physical and electronic copy of the map available to the public	City Engineer	2020	
3-3 Implement citizen reporting program (Ongoing)	In Progress	Complaints regarding illicit discharges are accepted through the Highways and Bridges Department, the Water Pollution Control Authority (WPCA) Administrator, and the City Hall receptionist who all direct these calls to the Engineering Department for documentation and follow up. Complaints are tracked within the City's records for each street	Create email address, phone number, or website link for citizen reports	Director of Public Works	2022	The City is rolling out the use of OpenGov software. This platform will allow the public to notify the City of any suspected illicit discharges
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	Completed	Some ordinances are already in place. Review and revise if required	Ensure ordinances are compliant with Permit	Director of Public Works	Adopted September 9, 2010	cityofshelton.org/documents/
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	Annually updated	SSO inventory is updated annually	Develop system for tracking and develop an SSO inventory	City Engineer	Ongoing	
3-6 Address IDDE in areas with pollutants of concern	In progress	Dry weather screenings began in 2021 and are over half way done with screenings. The City anticipates that wet weather screenings will begin following the completion of the remaing dry weather screenings projected for 2023. A consulting company is conducting all IDDE sampling	Conduct an assessment and use for prioritization of corrective actions	City Engineer	In progress	Once dry and wet weather screenings are completed, the City will prioritize catchments for corrective actions

3-7 Detailed MS4 infrastructure mapping	Completed	Maps are available at the Highway Department and Engineering Department	Make both a physical and electronic copy of the map available to the public	City Engineer	2020	
3-8 Complete list and maps of all MS4 stormwater outfalls throughout municipality	Completed	Maps are available at the Highway Department and Engineering Department	Make copy of the map available to the public	City Engineer	2020	

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

As part of the City of Shelton website revamp, the IDDE Plan will be added to the stormwater webpage. Additionally, the roll-out of OpenGov will contain a link for residents to inform the City of any potential illicit discharges observed. Dry weather screenings will be completed in 2023 by a consultant, who also will begin catchment investigations.

3.3 Provide a record of all citizen reports of suspected illicit discharges and other illicit discharges occurring during the reporting period and SSOs occurring July 2017 through end of reporting period using the following table. Illicit discharges are any unpermitted discharge to waters of the state that do not consist entirely of stormwater or uncontaminated groundwater except those discharges identified in Section 3(a)(2) of the MS4 general permit when such non-stormwater discharges are not significant contributors of pollution to a discharge from an identified MS4.

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)
20 Plaskon Drive extension	12/11/2019	Unknown	Unknown	Complaint regarding bubbling sewer manhole	Jetted line, removed 8" ball of rags, grease, and debris	N/A
10 Silva Drive	1/12/2021 8AM - 9AM	Bypass did not reach surface water	1-50 Gallons	Complaint regarding main line manhole bubbling and rags noted	Jetted line, removed rags and debris	N/A
1 Trap Falls Road	2/4/2021	Bypass did not reach surface water	1-50 Gallons	Complaint regarding odor from "public lateral" on private property	Jetted line, removed rags and debris	N/A
11 Birdseye Road Extension	10/11/2022	No	less than 50 gallons	Mechanical equipment failure, small forced main plumbing disconnected in manhole	10/11/2022 water vacuumed from manhole by CT licensed contractor and plumbing properly reconnected	None

92-96 Wooster Street	11/15/2022	No	less than 25 gallons	Cracked pipe filled with dirt	11/15/22 water was shut off; 11/16/22 new section of sewer lateral installed	None
Plumb Memorial Library (65 Wooster Street)	8/17/2022	No	Approx. 20 gallons	Heating fuel spill during tank removal	DEEP was notified and an environmental company was called to clean it up. No catch basins or run offs affected	None

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

Method used to track illicit discharge reports	Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known	Dept. / Person responsible
NVHD records	Overflow on Leavenworth St	Repairs are in process. Test work has been completed and installation of a new system will be installed once the weather warms	No surface waters were directly affected	NVHD
NVHD records	Overflow on Twin Brooks Dr	Repairs are in process. Test work has been completed and installation of a new system will be installed once the weather warms	No surface waters were directly affected	NVHD
NVHD records	Overflow on Beaverly Hill Dr	Septic system has since been repaired	No surface waters were directly affected	NVHD

In 2022, the Naugatuck Valley Health District (NVHD) issued approximately 12 orders to homeowners to start the septic system repair process. The addresses and details of each order issued are not public information. Additionally, the NVHD issued approximately 44 septic system permits, many of which were for septic tank replacements only. Approximately 30 soil testing events were conducted at existing homes to start the septic system repair process. The NVHD and their reporting metrics cover the Cities/Towns of Shelton, Ansonia, Beacon Falls, Derby, Naugatuck, and Seymour.

3.5 Briefly describe the method and effectiveness of said method used to track illicit discharge reports.

Residents report illicit discharges to various departments and they are immediately handled by the WPCA or another department. This method has been successful in the past in enabling residents to communicate concerns to the City. As mentioned previously, when rolled-out, OpenGov will allow residents to have another method to contact the City about illicit discharges. Alternatively, the City is considering implementing a reporting form on the City's new website instead of using OpenGov.

Currently, reports from the public are recorded within the corresponding street's file. The City considers this method effective at tracking reports and identifying problem areas within the drainage network.

3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	719
Estimated or actual number of interconnections	34
Outfall mapping complete	99%
Interconnection mapping complete	99%
System-wide mapping complete (detailed MS4 infrastructure)	99%
Outfall assessment and priority ranking	99%
Dry weather screening of all High and Low priority outfalls complete	463
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	0%

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

Employee trainings covering Stormwater Management and IDDE Topics occurred in September 2022.

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	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit (Due 7/1/20)	In progress	The City is working with a consultant to review and update its Stromwater Management Ordinance for consistency with the 2017 MS4 Permit	Review and revise, if required	Planning and Zoning	2023	
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	Completed, ongoing	The City maintains interdepartmental coordination for site plan review between the Conservation, Inland Wetlands, Engineering, and the Planning and Zoning Departments	Evaluate current practices and updates, as needed	Planning and Zoning	Ongoing	Soil Erosion and Sediment problems are reported to the Planning and Zoning office by departments who have personnel in the field and observe deficiencies. These departments include Engineering, Building, Sewer, Inland Wetlands, and Highways and Bridges
4-3 Review site plans for stormwater quality concerns (Ongoing)	Completed, ongoing	Site plans are currently reviewed for stormwater quality concerns. Planning and Zoning issues Soil Erosion and Sediment Control certificates for all subdivisions and site developments. Erosion and sedimentation plans are required for each application	Evaluate current practices and update, as needed	City Engineer and the Planning and Zoning Administrator	Ongoing	
4-4 Conduct site inspections (Ongoing)	Completed, ongoing	The Wetlands and the Zoning Enforcement staff continues to inspect and monitor the installation and maintenance of all erosion and sediment control measures on active construction sites. A standard paper inspection form is used for documentation purposes. The City is currently upgrading to OpenGov which will allow tracking by date ranges	Develop an inspection form that includes new requirements	Planning and Zoning	Ongoing	The Planning and Zoning Administrator, who has the supervisory responsibility of overseeing E&S measures on construction sites, notifies City staff and developers of potential heavy rainfall events by email and/or telephone. This procedure has been utilized since at least 2009

4-5 Implement procedure to allow public comment on site development (Ongoing)	Completed, ongoing	The public comments for specific construction projects are addressed and then documented in the project folder	Develop system to track and log comments	Planning and Zoning	Ongoing	The public has and utilizes their right to comment on site development during both public hearings held by the Inland Wetlands and Planning and Zoning commissions and during the public portion of regular meeting
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Completed, ongoing	Developers are informed of their obligation to obtain the DEEP construction stormwater permit. Copies of the DEEP application are on display in the Planning and Zoning Office and are printed for distribution	Notify developers if their projects disturb greater than 1 acre of land	Planning and Zoning	Ongoing	

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

The City will plan on continuing its interdepartmental coordination and other ongoing BMPs. In 2023, the City will continue its efforts with a consulting company to review and update its MCM-4 regulations for compliance with the 2017 MS4 Permit.

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	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning (Due 7/1/22)	In progress	The City is working with a consultant to review and update its Stromwater Management Ordinance for consistency with the 2017 MS4 Permit	Review bylaws and guidelines in order to incorporate LID	Planning and Zoning	Previous guidelines adopted in September 2010; updated regulations will be considered in the future	The City previously adopted Ordinance No. 854, Stormwater Management/ Operation and Maintenance Requirements
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	In progress	The City is working with a consultant to review and update its regulations for consistency with the 2017 MS4 Permit	Educate the public and developers on LID	Planning and Zoning	Updated regulations will be considered in the future	The City currently requires all developments to provide stormwater detention to limit increases in the post development runoff rates. While this requirement is not in the Planning and Zoning regulations, the goal of limiting runoff rates to pre-construction levels has been met with great success. The City also requires developments and single family homes to employ some degree of ground infiltration for site generated runoff to be retained on-site
5-3 Identify retention and detention ponds in priority areas (Due 7/1/20)	Ongoing	Every April, Shelton visits and inspects all stormwater retention and detention ponds to determine what maintenance is required	Inventory retention and detention ponds and implement O&M program	City Engineer	Ongoing	The inventory was previously completed and is updated as needed
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	Ongoing	The O&M schedule consists of the City Engineer visiting every structure in April. Follow-up O&M activities are determined and scheduled based on site specific conditions	Inventory relevant structures and develop a schedule	Planning and Zoning	Ongoing	The inventory was previously completed and is updated as needed

5-5 DCIA mapping	Completed	DCIA was mapped/computed in 2021	Map the City's DCIA. Document progress in annual report	Engineering Department	8/10/2021	http://cityofshelton.org/wp-content/uploads/2018/12/DCIA-PLAN-FINAL09-15-2021.pdf
5-6 Address post-construction issues in areas with pollutants of concern	In progress	A hired consulting company completed this work	Prioritize areas impaired by Nitrogen, Phosphorus, and bacteria	Planning and Zoning	2021	

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

The City will consider implementing DCIA disconnects on any upcoming City retrofit or construction projects. The City will continue its efforts with a consulting company to review and update its MCM-5 regulations for compliance with the 2017 MS4 Permit.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	1,591.96 acres
DCIA disconnected (redevelopment plus retrofits)	TBD acres this year / TBD acres total
Retrofit projects completed	0
DCIA disconnected	TBD % this year / TBD % total since 2012
Estimated cost of retrofits	$ 0
Detention or retention ponds identified	TBD this year /TBD total

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

The baseline DCIA was determined using the state's 2012 impervious coverage layers as a starting point for each subregional drainage basin. For each basin, we evaluated the general connectivity by applying the Sutherland Equations as recommended by EPA Region I to approximate the directly connected area within each subregional drainage basin. The summation of the revised DCIA for each subregional drainage basin is then used as the modified, final baseline DCIA.

See full plan here: http://cityofshelton.org/wp-content/uploads/2018/12/DCIA-PLAN-FINAL09-15-2021.pdf

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	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
6-1 Develop/implement formal employee training program (Ongoing)	Ongoing	Training program was completed	Conduct annual stormwater training	Director of Public Works	September 2022	
6-2 Implement MS4 property and operations maintenance (Ongoing)	In Progress	The City implements existing pollution control documents and maintains all City-owned stormwater assets	Inspect assets and assess conditions to develop program	Director of Public Works; Parks and Recreation	Ongoing	The City maintains a pollution/stormwater control document for the City Public Works Department and Trasnfer Station
6-3 Implement coordination with interconnected MS4s	Completed, ongoing	The City coordinates with the Towns of Monroe and Trumbull and with CTDOT as needed. The City's IDDE consultant is also the MS4 consultant for Monroe and Trumbull	Coordinate IDDE activities with interconnected MS4s	Engineering Department	Ongoing	The City's 34 interconnections are as follows: • 2 to the Town of Monroe • 4 from the Town of Trumbull • 2 to the Town of Trumbull • 4 from CTDOT • 22 to CTDOT
6-4 Develop/implement program to control other sources of pollutants to the MS4	Ongoing	The City is planning on addressing this requirement in future years and will consider any necessary modification to City regulations	Develop an asset management program	Director of Public Works; Planning	TBD	
6-5 Evaluate additional measures for discharges to impaired waters*	Incomplete	The City is planning on addressing this requirement in future years	Develop a City-wide plan that addresses pollutants and discharges	Director of Public Works	TBD	Local watershed organizations including the Housatonic Valley Association evauate the health of the watershed and identify problems impacting water quality https://hvatoday.org/health-of-the-watershed/
6-6 Track projects that disconnect DCIA (Ongoing)	In progress	The City's consultant developed a spreadsheet for the purpose of tracking Directly Connected Impervious Areas as projects	Develop a method or system for tracking changes to DCIA. Annually track the total acreage of	Engineering Department	Ongoing	

		add or subtract DCIA. No City-owned projects have disconnected DCIA yet	DCIA that is disconnected from the MS4			
6-7 Implement infrastructure repair/rehab program (Due 7/1/21)	Completed, ongoing	The City has CCTV and other equipment in-house to investigate issues as needed; City completes repair/rehab as needed	CCTV the drainage system, investigate flooding areas, etc. to develop program	Director of Public Works	Ongoing	
6-8 Develop/implement plan to identify/prioritize retrofit projects (Due 7/1/20)	In progress	The City's Consultant pepared a DCIA Disconnection Plan that included a prioritized list of candidate disconnection projects on City property	Develop and implement a plan to identify and prioritize retrofit projects	Engineering Department	8/15/2021	This retrofit program will prioritize properties that have a high potential to contribute bacteria to waters, in accordance with the City's bacteria pollutant of concern
6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/22)	Incomplete	The City will evaluate the recommendations in the 2021 DCIA Plan and track future projects to disconnect DCIA	Use retrofit prioritization to select and implement DCIA-reducing projects to reach 2% reduction goal	Director of Public Works	TBD	
6-10 Develop/implement street sweeping program (Ongoing)	In progress	The City hired a contractor to implement its street sweeping program	Sweep all parking lots and streets within the MS4 at least once per year	Director of Public Works	Ongoing	
6-11 Develop/implement catch basin cleaning program (Ongoing)	In progress	Program is annually implemented	Track catch basin cleaning and develop a schedule	Director of Public Works	Ongoing	The current catch basin cleaning program consists of periodically assigning the foremen to perform visual inspections of the catch basins. The inspections are done by both snowplow routes and streets scheduled for resurfacing
6-12 Develop/implement snow management practices (Due 7/1/18)	Completed, ongoing	Low-salt practices are annually implemented	Implement practices to reduce salt use	Director of Public Works	Ongoing	City snow management practices include using only straight pre-treated salt for de-icing operations. A small supply of a sand/salt mix is maintained for limited use in locations with significant grades and only during specific hazardous road conditions

6-13 *Additional BMP:* Measures for Nitrogen impairment – turf management plan	In Progress	Fertilizer use was reduced this year. Further actions are being planned	Implement turf management practices and identify retrofits where needed	Director of Public Works; Parks and Recreation	Ongoing	Current turf management practices that the Town is implementing include a continual decline in the use of fertilizers on Town properties
6-14 *Additional BMP:* Measures for Bacteria impairment – waterfowl control plan	Incomplete	None: The City does not have a geese/waterfowl problem. If this issue arises, further actions will be planned	Prohibit the feeding of geese or waterfowl on City land and implement program to manage geese/waterfowl populations	Director of Public Works; Parks and Recreation	TBD	Bacteria is likely entering waterways from other sources

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

The City will continue to evaluate the recommendations within the 2021 DCIA Plan and will consider DCIA disconnection efforts on all upcoming retrofit and development projects. The City restarted its formal IDDE training program in September of 2022.

In future years, the City will develop a City-wide plan that addresses pollutants that discharge to impaired waters and develop/implement a program to control other sources of pollutants to the MS4.

6.3 Pollution Prevention / Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Stormwater Management and IDDE training was conducted in September 2022.
Street sweeping	
Curb miles swept	19.75 miles
Volume (or mass) of material collected	243 tons
Catch basin cleaning	
Total catch basins in priority areas (value will be less than or equal to total catch basins town or institution-wide)	Approximately 724
Total catch basins town-wide	5365
Catch basins inspected	173
Catch basins cleaned	98
Volume (or mass) of material removed from all catch basins	28.49 tons
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	Pre-treated salt
Total amount of each deicing material applied	1275 tons

Type(s) of deicing equipment used	All season spreaders
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	432.86 miles
Snow disposal location	799 Howe Avenue
Staff training provided on application methods & equipment	Training has not yet been provided
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	1,600 lbs of fertilizer were used in 2022; this represents a 3% reduction from last year's usage.
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

Provide any updates or modifications to your catch basin cleaning program.
Staff are continually working on better tracking inspection and cleaning efforts. A total of 75 catch basins were repaired in 2022.

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. (Due 7/1/20)
The 2021 DCIA Plan included BMP recommendations and prioritizations. The City evaluated the recommendations within the DCIA Plan and will consider DCIA disconnection efforts on all upcoming retrofit and development projects.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection annually in future years. (Due 7/1/22)
The 2021 DCIA Plan included BMP recommendations and prioritizations. The City evaluated the recommendations within the DCIA Plan and will consider DCIA disconnection efforts on all upcoming retrofit and development projects.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

For details on this requirement, visit https://nemo.uconn.edu/ms4/tasks/monitoring/. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

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.
To date 50 outfalls have been sampled, including 8 outfalls sampled in 2022. There are many other state owned outfalls along Route 110, which have some interconnections. During our sampling, we may identify additional outfalls or interconnections that may require sampling. The monitoring results indicate that total coliform was over the threshold in all of the samples along the Farmill River, but none exceeded the E. coli threshold, which indicates environmental inputs instead of fecal inputs into the stormwater runoff. At this point in time, no additional changes to the stormwater management plan are warranted. The City anticipates returning to re-sample the 6 worst outfalls as part of its monitoring program, and the worst outfalls include 72, 115, 117, 398, 480, and 481. The City screened an additional 176 outfalls during dry weather in 2022 and has hired a consultant to screen the remaining outfalls in 2023. The new total number of outfalls screened during dry weather conditions is 463.

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

2.1 Screening data

Complete the table below to report data for any wet weather sampling completed for MS4 outfalls that discharge directly to a stormwater impaired waterbody during the reporting period. For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

Each Annual Report will add on to the previous year's data showing a cumulative list of sampling data. **You may also attach an excel spreadsheet with the same data rather than copying it into this table**. If you do attach a spreadsheet, please write "See Attachment" below.

Outfall ID	**Latitude / Longitude**	**Sample date**	**Parameter** (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	**Results**	**Name of Laboratory**	**Follow-up required? ***
72	41.2985339372 -73.1903009921	06/03/21	Bacteria	E. coli: 152 col/100ml Total coliform: 2,420 col/100ml	EML	Yes
73	41.2978587641 -73.1897024857	06/03/21	Bacteria	E. coli: 194 col/100ml Total coliform: 1,886 col/100ml	EML	Yes

115	41.2785234161 -73.1280174505	06/03/21	Bacteria	E. coli: 236 col/100ml Total coliform: 1,733 col/100ml	EML	Yes
116	41.2796534697 -73.1251615523	06/03/21	Bacteria	E. coli: 319 col/100ml Total coliform: 2,420 col/100ml	EML	Yes
117	41.2777101272 -73.121507078	06/03/21	Bacteria	E. coli: 119 col/100ml Total coliform: 1,986 col/100ml	EML	Yes
257	41.2992234267 -73.1919580242	06/03/21	Bacteria	E. coli: 32 col/100ml Total coliform: 921 col/100ml	EML	Yes
384	41.2841493432 -73.1373195544	06/03/21	Bacteria	E. coli: 132 col/100ml Total coliform: 1,986 col/100ml	EML	Yes
387	41.319611327 -73.1007806473	06/03/21	Bacteria	E. coli: 153 col/100ml Total coliform: 1,414 col/100ml	EML	Yes
398	41.2596691102 -73.098426272	06/03/21	Bacteria	E. coli: 236 col/100ml Total coliform: 2,420 col/100ml	EML	Yes
399	41.2782954821 -73.1350334224	06/03/21	Bacteria	E. coli: 91 col/100ml Total coliform: 1,533 col/100ml	EML	Yes
414	41.2777735257 -73.1318539549	06/03/21	Bacteria	E. coli: 112 col/100ml Total coliform: 1,733 col/100ml	EML	Yes
480	41.2750397486 -73.1137965302	06/03/21	Bacteria	E. coli: 72 col/100ml Total coliform: 1,414 col/100ml	EML	Yes
481	41.2854621114 -73.1366675178	06/03/21	Bacteria	E. coli: 133 col/100ml Total coliform: 2,420 col/100ml	EML	Yes
525	41.2845435152 -73.1366775853	06/03/21	Bacteria	E. coli: 157 col/100ml Total coliform: 2,420 col/100ml	EML	Yes

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)	• E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others • Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	• 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 ID	Status of drainage area investigation	Control measure to address impairment
None		

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

Once outfall sampling 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**. You may also attach an excel spreadsheet with the same data rather than copying it to this table**. If you do attach a spreadsheet, please write "See Attachment" below.

Outfall	Latitude / Longitude	Sample Date	Parameter(s)	Results	Name of Laboratory
72	41.2985339372 -73.1903009921	06/03/21	Bacteria	E. coli: 152 col/100ml Total coliform: 2,420 col/100ml	EML
115	41.2785234161 -73.1280174505	06/03/21	Bacteria	E. coli: 236 col/100ml Total coliform: 1,733 col/100ml	EML
117	41.2777101272 -73.121507078	06/03/21	Bacteria	E. coli: 119 col/100ml Total coliform: 1,986 col/100ml	EML
398	41.2596691102 -73.098426272	06/03/21	Bacteria	E. coli: 236 col/100ml Total coliform: 2,420 col/100ml	EML
480	41.2750397486 -73.1137965302	06/03/21	Bacteria	E. coli: 72 col/100ml Total coliform: 1,414 col/100ml	EML
481	41.2854621114 -73.1366675178	06/03/21	Bacteria	E. coli: 133 col/100ml Total coliform: 2,420 col/100ml	EML

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).

Note: Priority ranking will be updated to reflect dry and wet weather sampling once wet weather sampling is completed

Catchment ID	Priority Rank
6000-00-5+L4-01	High
6000-00-5+R11-01	High
6000-00-5+R11-02	High
6000-00-5+R12-01	High
6000-00-5+R18-01	High
6000-00-5+R18-02	High
6000-00-5+R19-01	High
6000-00-5+R19-02	High
6000-00-5+R19-03	High
6000-00-5+R19-04	High
6000-00-5+R19-05	High
6000-00-5+R19-06	High
6000-00-5+R19-07	High
6000-00-5+R20-01	High
6000-00-5+R20-02	High
6000-00-5+R20-03	High
6000-00-5+R22-01	High
6000-00-5+R22-02	High
6000-00-5+R22-03	High
6000-00-5+R22-04	High
6000-73-2-R1-0	High
6000-75-1-02	High
6000-75-1-03	High
6000-75-1-04	High
6000-75-1-05	High
6000-75-1-06	High
6000-75-1-07	High
6000-75-1-08	High
6000-75-1-09	High
6000-75-1-010	High
6000-75-1-011	High
6000-75-1-012	High

Catchment ID	Priority Rank
6000-75-1-013	High
6000-75-1-014	High
6000-75-1-015	High
6000-75-1-016	High
6000-75-1-017	High
6000-75-1-018	High
6000-75-1-019	High
6000-75-2-R1	High
6000-79-1-01	High
6000-79-1-02	High
6000-79-1-03	High
6000-79-1-04	High
6000-79-1-05	High
6000-79-1-06	High
6000-79-1-07	High
6000-79-1-08	High
6000-79-1-09	High
6000-79-1-010	High
6000-79-1-011	High
6000-79-1-012	High
6000-79-1-013	High
6000-79-1-014	High
6000-79-1-015	High
6000-79-1-016	High
6000-79-1-017	High
6000-79-1-018	High
6000-79-1-019	High
6000-79-1-020	High
6000-79-1-021	High
6000-79-1-022	High
6000-79-1-023	High
6000-79-1-024	High

Catchment ID	Priority Rank
6000-79-1-025	High
6000-79-1-026	High
6000-79-1-027	High
6000-79-1-028	High
6000-79-1-029	High
6000-79-1-030	High
6000-79-1-031	High
6024-04-1-01	High
6024-04-1-02	High
6024-04-1-03	High
6024-06-1-01	High
6025-00-2-R2-0	High
6025-00-3-L2-01	High
6025-00-3-L2-02	High
6025-00-3-L2-03	High
6025-00-3-L2-04	High
6025-00-3-L2-05	High
6025-00-3-L2-06	High
6025-00-3-L2-07	High
6025-00-3-R5-01	High
6025-00-3-R5-02	High
6025-00-3-R5-03	High
6025-00-3-R5-04	High
6025-00-3-R5-05	High
6025-00-3-R5-06	High
6025-00-3-R5-07	High
6025-00-3-R5-08	High
6025-00-3-R5-09	High
6025-00-3-R7-01	High
6025-00-3-R7-02	High
6025-00-3-R7-03	High
6025-00-3-R8-01	High

Catchment ID	Priority Rank
6025-00-3-R8-02	High
6025-04-1-01	High
6025-07-1-01	High
6025-08-1-01	High
6025-08-1-02	High
6025-08-1-03	High
6025-08-1-04	High
6025-08-1-05	High
6025-08-1-06	High
6025-08-1-07	High
6025-08-1-08	High
6025-08-1-09	High
6025-08-1-010	High
6025-08-1-011	High
6025-08-1-012	High
6025-08-1-013	High
7104-01-1-L1-01	High
7104-01-1-L1-02	High
4011-00-2-R3	High
6000-00-5+L4-02	Low
6000-00-5+L4-03	Low
6000-00-5+L4-04	Low
6000-00-5+L4-05	Low
6000-00-5+L4-06	Low
6000-00-5+L4-07	Low
6000-00-5+L4-08	Low
6000-00-5+L4-09	Low
6000-00-5+L4-010	Low
6000-00-5+R11-015	Low
6000-00-5+R11-016	Low
6000-00-5+R11-03	Low
6000-00-5+R11-04	Low

Catchment ID	Priority Rank
6000-00-5+R11-05	Low
6000-00-5+R11-06	Low
6000-00-5+R11-07	Low
6000-00-5+R11-08	Low
6000-00-5+R11-09	Low
6000-00-5+R11-010	Low
6000-00-5+R11-011	Low
6000-00-5+R11-012	Low
6000-00-5+R11-013	Low
6000-00-5+R11-014	Low
6000-00-5+R13-02	Low
6000-00-5+R13-03	Low
6000-00-5+R13-04	Low
6000-00-5+R13-05	Low
6000-00-5+R13-06	Low
6000-00-5+R13-07	Low
6000-00-5+R14-08	Low
6000-00-5+R14-09	Low
6000-00-5+R14-010	Low
6000-00-5+R14-011	Low
6000-00-5+R14-012	Low
6000-00-5+R14-013	Low
6000-00-5+R14-014	Low
6000-00-5+R14-015	Low
6000-00-5+R14-016	Low
6000-00-5+R14-017	Low
6000-00-5+R14-018	Low
6000-00-5+R14-019	Low
6000-00-5+R14-020	Low
6000-00-5+R14-021	Low
6000-00-5+R14-022	Low
6000-00-5+R14-023	Low
6000-00-5+R14-024	Low
6000-00-5+R20-04	Low
6000-00-5+R20-05	Low
6000-00-5+R20-06	Low
6000-00-5+R20-07	Low
6000-00-5+R20-08	Low
6000-00-5+R20-09	Low
6000-00-5+R20-010	Low
6000-00-5+R23-01	Low

Catchment ID	Priority Rank
6000-00-5+R23-02	Low
6000-00-5+R23-03	Low
6000-00-5+R23-04	Low
6000-00-5+R23-05	Low
6000-00-5+R24-01	Low
6000-00-5+R24-02	Low
6000-00-5+R24-03	Low
6000-00-5+R24-04	Low
6000-00-5+R24-05	Low
6000-00-5+R24-06	Low
6000-00-5+R24-07	Low
6000-63-1-01	Low
6000-63-1-02	Low
6000-63-1-03	Low
6000-63-1-04	Low
6000-63-1-05	Low
6000-63-1-06	Low
6000-63-1-07	Low
6000-63-1-08	Low
6000-63-1-09	Low
6000-63-1-010	Low
6000-63-1-011	Low
6000-63-1-012	Low
6000-63-1-013	Low
6000-63-1-014	Low
6000-63-1-015	Low
6000-63-1-016	Low
6000-63-1-017	Low
6000-63-1-018	Low
6000-63-1-019	Low
6000-63-1-020	Low
6000-63-1-021	Low
6000-68-1-022	Low
6000-68-1-023	Low
6000-68-1-024	Low
6000-68-1-025	Low
6000-68-1-026	Low
6000-68-1-027	Low
6000-68-1-028	Low
6000-68-1-029	Low
6000-68-1-030	Low

Catchment ID	Priority Rank
6000-68-1-031	Low
6000-68-1-032	Low
6000-68-1-033	Low
6000-68-1-034	Low
6000-68-1-035	Low
6000-68-1-036	Low
6000-68-1-037	Low
6000-68-1-038	Low
6000-68-1-039	Low
6000-68-1-040	Low
6000-68-1-041	Low
6000-68-1-042	Low
6000-71-1-01	Low
6000-71-1-02	Low
6000-71-1-03	Low
6000-71-1-04	Low
6000-71-1-05	Low
6000-71-1-06	Low
6000-71-1-07	Low
6000-71-1-08	Low
6000-71-1-09	Low
6000-71-1-010	Low
6000-71-1-011	Low
6000-71-1-012	Low
6000-71-1-013	Low
6000-71-1-014	Low
6000-71-1-015	Low
6000-71-1-016	Low
6000-71-1-017	Low
6000-71-1-018	Low
6000-71-1-019	Low
6000-71-1-020	Low
6000-73-2-L2-01	Low
6000-73-2-L2-02	Low
6000-73-2-L2-03	Low
6000-73-2-L2-04	Low
6000-73-2-L2-05	Low
6000-73-2-L2-06	Low
6000-73-2-L2-07	Low
6000-73-2-L2-08	Low
6000-73-2-L2-09	Low

Catchment ID	Priority Rank
6000-73-2-L2-010	Low
6000-73-2-L2-011	Low
6000-73-2-L2-012	Low
6000-73-2-L2-013	Low
6000-73-2-L2-014	Low
6000-73-2-L2-015	Low
6000-73-2-L2-016	Low
6000-73-2-L2-017	Low
6000-73-2-L2-018	Low
6000-73-2-L2-019	Low
6000-73-2-L2-020	Low
6000-73-2-L2-021	Low
6000-74-1-01	Low
6024-00-1-032	Low
6024-00-1-033	Low
6024-00-1-034	Low
6024-00-2-L1-01	Low
6024-00-2-L1-02	Low
6024-00-2-L1-03	Low
6024-00-2-L1-04	Low
6024-00-2-L1-05	Low
6024-00-2-L1-06	Low
6024-00-2-L1-07	Low
6024-00-2-L1-08	Low
6024-00-2-L1-09	Low
6024-00-2-L1-010	Low
6024-00-2-L1-011	Low
6024-00-2-L1-012	Low
6024-00-2-R1-01	Low
6024-00-2-R1-02	Low
6024-00-2-R1-03	Low
6024-00-2-R1-04	Low
6024-00-2-R1-05	Low
6024-00-2-R1-06	Low
6024-00-2-R1-07	Low
6024-00-2-R5-01	Low
6024-00-2-R5-02	Low
6024-00-2-R5-03	Low
6024-00-2-R5-04	Low
6024-00-2-R5-05	Low
6024-00-2-R5-06	Low

Catchment ID	Priority Rank
6024-00-2-R5-07	Low
6024-00-2-R5-08	Low
6024-00-2-R5-09	Low
6024-00-2-R5-010	Low
6024-00-2-R5-011	Low
6024-00-2-R5-012	Low
6024-00-2-R5-013	Low
6024-00-2-R5-014	Low
6024-00-2-R5-015	Low
6024-00-2-R5-016	Low
6024-00-2-R5-017	Low
6024-00-2-R5-018	Low
6024-00-2-R5-019	Low
6024-00-2-R5-020	Low
6024-00-2-R5-021	Low
6024-00-2-R5-022	Low
6024-00-2-R5-023	Low
6024-00-2-R5-024	Low
6024-00-2-R5-025	Low
6024-00-2-R5-026	Low
6024-00-2-R5-027	Low
6024-00-2-R5-028	Low
6024-00-2-R5-029	Low
6024-00-2-R5-030	Low
6024-00-2-R5-031	Low
6024-00-2-R5-032	Low
6024-00-2-R5-033	Low
6024-00-2-R5-034	Low
6024-00-2-R5-035	Low
6024-03-1-01	Low
6024-03-1-02	Low
6024-03-1-03	Low
6024-04-1-04	Low
6024-04-1-05	Low
6024-04-1-06	Low
6024-04-1-07	Low
6024-04-1-08	Low
6024-04-1-09	Low
6024-04-1-010	Low
6024-04-1-011	Low
6024-04-1-012	Low

Catchment ID	Priority Rank
6024-05-1-01	Low
6024-05-1-02	Low
6024-05-1-03	Low
6024-05-1-04	Low
6024-05-1-05	Low
6024-05-1-06	Low
6024-05-1-07	Low
6024-05-1-08	Low
6024-05-1-09	Low
6024-05-1-010	Low
6024-05-1-011	Low
6024-05-1-012	Low
6024-05-1-013	Low
6024-05-1-014	Low
6024-05-1-015	Low
6024-05-1-016	Low
6024-06-1-02	Low
6024-06-1-03	Low
6024-06-1-04	Low
6024-06-1-05	Low
6024-06-1-06	Low
6024-06-1-07	Low
6024-06-1-08	Low
6024-06-1-09	Low
6024-06-1-010	Low
6024-06-1-011	Low
6024-06-1-012	Low
6024-06-1-013	Low
6024-06-1-014	Low
6024-06-1-015	Low
6024-06-1-016	Low
6024-06-1-L1-01	Low
6024-06-1-L1-02	Low
6024-06-1-L1-03	Low
6025-00-2-R1-0	Low
6025-00-3-L2-08	Low
6025-00-3-L2-09	Low
6025-00-3-L2-010	Low
6025-00-3-L2-011	Low
6025-00-3-L2-012	Low
6025-00-3-R1-01	Low

Catchment ID	Priority Rank
6025-00-3-R1-02	Low
6025-00-3-R1-03	Low
6025-00-3-R1-04	Low
6025-00-3-R1-05	Low
6025-00-3-R1-06	Low
6025-00-3-R2-02	Low
6025-00-3-R2-03	Low
6025-00-3-R2-04	Low
6025-00-3-R2-05	Low
6025-00-3-R2-06	Low
6025-00-3-R2-07	Low
6025-00-3-R2-08	Low
6025-00-3-R2-09	Low
6025-00-3-R3-01	Low
6025-00-3-R3-02	Low
6025-00-3-R3-03	Low
6025-00-3-R3-04	Low
6025-00-3-R3-05	Low
6025-00-3-R3-06	Low
6025-00-3-R3-07	Low
6025-00-3-R3-08	Low
6025-00-3-R3-09	Low
6025-00-3-R3-010	Low
6025-00-3-R3-011	Low
6025-00-3-R3-012	Low
6025-00-3-R3-013	Low
6025-00-3-R3-014	Low
6025-00-3-R3-015	Low
6025-00-3-R3-016	Low
6025-00-3-R3-017	Low
6025-00-3-R3-018	Low
6025-00-3-R3-019	Low
6025-00-3-R3-020	Low
6025-00-3-R3-021	Low
6025-00-3-R3-022	Low
6025-00-3-R3-023	Low
6025-00-3-R3-024	Low
6025-00-3-R3-025	Low
6025-00-3-R3-026	Low
6025-00-3-R3-027	Low
6025-00-3-R3-028	Low

Catchment ID	Priority Rank
6025-00-3-R3-029	Low
6025-00-3-R3-030	Low
6025-00-3-R3-031	Low
6025-00-3-R3-032	Low
6025-00-3-R3-033	Low
6025-00-3-R3-034	Low
6025-00-3-R3-035	Low
6025-00-3-R3-036	Low
6025-00-3-R3-037	Low
6025-00-3-R3-038	Low
6025-00-3-R3-039	Low
6025-00-3-R3-040	Low
6025-00-3-R3-041	Low
6025-00-3-R5-010	Low
6025-00-3-R5-011	Low
6025-00-3-R5-012	Low
6025-00-3-R5-013	Low
6025-00-3-R5-014	Low
6025-00-3-R5-015	Low
6025-00-3-R5-016	Low
6025-00-3-R5-017	Low
6025-00-3-R5-018	Low
6025-00-3-R5-019	Low
6025-00-3-R7-04	Low
6025-00-3-R7-05	Low
6025-00-3-R7-06	Low
6025-00-3-R8-03	Low
6025-00-3-R8-04	Low
6025-00-3-R8-05	Low
6025-00-3-R8-06	Low
6025-00-3-R8-07	Low
6025-00-3-R8-08	Low
6025-02-1	Low
6025-03-1-01	Low
6025-03-1-02	Low
6025-03-2-R1-01	Low
6025-03-2-R1-02	Low
6025-03-2-R1-03	Low
6025-03-2-R1-04	Low
6025-03-2-R1-05	Low
6025-03-2-R1-06	Low

Catchment ID	Priority Rank
6025-03-2-R1-07	Low
6025-03-2-R1-08	Low
6025-03-2-R1-09	Low
6025-03-2-R1-010	Low
6025-03-2-R1-011	Low
6025-03-2-R1-012	Low
6025-03-2-R1-013	Low
6025-03-2-R1-014	Low
6025-03-2-R1-015	Low
6025-03-2-R1-016	Low
6025-03-2-R1-017	Low
6025-03-2-R1-018	Low
6025-03-2-R1-019	Low
6025-04-1-02	Low
6025-04-1-03	Low
6025-04-1-04	Low
6025-04-1-05	Low
6025-04-1-06	Low
6025-04-1-07	Low
6025-04-1-08	Low
6025-04-1-09	Low
6025-04-1-010	Low
6025-04-1-011	Low
6025-04-1-012	Low
6025-04-1-013	Low
6025-04-1-014	Low
6025-04-1-015	Low
6025-04-1-016	Low
6025-04-1-017	Low
6025-04-1-018	Low
6025-04-1-019	Low

Catchment ID	Priority Rank
6025-05-1-01	Low
6025-05-1-02	Low
6025-05-1-03	Low
6025-05-1-04	Low
6025-05-1-05	Low
6025-05-1-06	Low
6025-05-1-07	Low
6025-05-1-08	Low
6025-05-1-09	Low
6025-05-1-010	Low
6025-05-1-011	Low
6025-05-1-012	Low
6025-05-1-013	Low
6025-06-1-01	Low
6025-06-1-02	Low
6025-06-1-03	Low
6025-06-1-04	Low
6025-06-1-05	Low
6025-06-1-06	Low
6025-06-1-07	Low
6025-06-1-08	Low
6025-06-1-09	Low
6025-06-1-010	Low
6025-06-1-011	Low
6025-06-1-012	Low
6025-06-1-013	Low
6025-06-1-014	Low
6025-06-1-015	Low
6025-06-1-016	Low
6025-06-1-017	Low
6025-06-1-018	Low

Catchment ID	Priority Rank
6025-06-1-019	Low
6025-06-1-020	Low
6025-06-1-021	Low
6025-07-1-02	Low
6025-07-1-03	Low
6025-07-1-04	Low
6025-07-1-05	Low
6025-07-1-06	Low
6025-07-1-07	Low
6025-07-1-08	Low
6025-09-1-01	Low
6025-09-1-02	Low
6025-09-1-03	Low
6025-09-1-04	Low
6025-09-1-05	Low
6025-10-1-01	Low
6025-10-1-02	Low
6025-10-1-03	Low
6026-00-1-L1-01	Low
6026-00-1-L1-02	Low
6026-00-1-L1-03	Low
6026-00-1-L2	Low
6026-03-1-L1-01	Low
6026-03-1-L1-02	Low
7104-01-1-01	Low
7104-01-1-02	Low
7104-01-1-03	Low
7104-01-1-04	Low
7104-01-1-L1-03	Low
7104-01-1-L1-04	Low
7104-01-1-L1-05	Low

Catchment ID	Priority Rank
7104-01-1-L1-06	Low
7104-01-1-L1-07	Low
7104-01-1-L1-08	Low
7104-01-1-L1-09	Low
7104-01-1-L1-010	Low
7104-01-1-L1-011	Low
7104-01-1-L1-012	Low
7104-01-1-L1-013	Low
7104-01-1-L1-014	Low
7104-01-1-L1-015	Low
7104-01-1-L1-016	Low
7104-01-1-L1-017	Low
7104-01-1-L1-018	Low
7104-01-1-L1-019	Low
7104-01-1-L1-020	Low
7104-01-1-L1-021	Low
7104-01-1-L1-022	Low
7104-01-1-L1-023	Low
7104-01-1-L1-024	Low
7104-01-1-L1-025	Low
7104-01-1-L1-026	Low
7104-01-1-L1-027	Low
7104-01-1-L1-028	Low
7104-01-1-L1-029	Low
7104-01-1-L1-030	Low
7104-01-1-L1-031	Low
7104-01-1-L1-032	Low
7104-01-1-L1-033	Low
7104-02-1-01	Low
7104-02-1-02	Low
4000-33-2-R2	Low

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

For details on this requirement, visit https://nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the blue column of the Monitoring comparison chart and the IDDE baseline monitoring flowchart. Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Provide sample data for outfalls where flow is observed, during dry weather, of outfalls and interconnections categorized as high or low priority in priority areas. Do not include problem or excluded catchments. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies. **You may also attach an excel spreadsheet with the same data rather than copying it to this table.** If you do attach a spreadsheet, please write "See Attachment" below.

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
2	41.2872444941 -73.1560868968	6/14/2022									
3	41.2869249459 -73.1579040467	6/14/2022									
5	41.28433704340 -73.1571515047	6/14/2022									
6	41.28565670760 -73.1569994393	6/14/2022									
7	41.28378582790 -73.1557493002	6/14/2022									
8	41.31495586900 -73.1286531667	5/2/2022									
10	41.31632191300 -73.1269674576	5/2/2022									
11	41.31705442120 -73.1260511881	5/2/2022									
12	41.28092522590 -73.14988773	6/14/2022									
13	41.34292998780 -73.13011339	6/14/2021									
14	41.3259641618 -73.17222663	6/14/2021	0	0	444	0.12	0	0.06	59.5		
15	41.3265309109 -73.170831290	6/14/2021	0	0	386	0.44	1	0.03	61.2		

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity , umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
16	41.30062011840 -73.178483842	6/22/2022									
17	41.30224343150 -73.17796794	6/22/2022									
18	41.28741393180 -73.134258596	5/2/2022									
19	41.3379261197 - 73.146144109	6/14/2021									
20	41.33772377 - 73.1463530476	6/14/2021	0	0	202	0.1	0	0.19	64.5		
21	41.3634943771 - 73.154496250	6/7/2021									
22	41.3446693312 - 73.135636252	6/14/2021									
23	41.30733257790 -73.135854833	5/3/22									
24	41.29007889090 -73.122801768	5/2/22									
25	41.3531525825 73.148586872	6/10/2021	0	0	422	0.1	0	ND	61.5		
26	41.28035653160 -73.177160819	6/30/2022									
27	41.27975250860 -73.180548741	6/30/22									
29	41.3158610132 -73.11353636	4/4/22	0	0	368	0.13	0	0	40.4		
30	41.31586101320 -73.112198150	4/4/22									
31	41.31696272040 -73.112010922	4/4/22									
32	41.31710379560 -73.172169189	6/14/22									
33	41.3652106241 -73.152706354	6/7/2021									
34	-73.1728444171 41.2728733204	6/14/22									
35	-73.1702033795 41.2739164689	6/14/22									
36	-73.1718956371 41.2724216066	6/14/22									
37	-73.1698587529 41.2754004125	6/30/22									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
38	41.3072074381 -73.137919503	6/18/2021									
39	-73.1168141011 41.2939695599	5/2/2022									
40	-73.1159238409 41.2934284822	5/2/2022									
41	-73.1248976615 41.2884323788	5/2/2022									
42	-73.1221699209 41.2876397488	5/2/2022									
46	-73.128835246 41.2850391521	5/2/2022									
47	-73.1322909039 41.2875104387	5/2/2022									
48	-73.133419999 41.2873247671	5/2/2022									
49	-73.1332538202 41.2871780242	5/2/2022									
50	-73.1318387834 41.2849094526	5/2/2022									
51	-73.1122176332 41.314596986	4/4/2022									
52	-73.1107885596 41.3164153032	4/4/2022									
53	41.3452235851 -73.132688943	6/14/2021	0	0	444	0.23	0	ND	63.7		
54	41.3459569936 -73.134149582	6/14/2021	0	0	348	0.34	0	ND	60.5		
55	-73.1771551444 41.2880836191										
56	-73.1775219544 41.2862237526										
58	41.3323159243 -73.130101068	6/30/2021	0	0	514	0.32	10	ND	62.3		
59	41.3349580781 -73.126005986	6/30/2021									
60	-73.1128260666 41.3230659449	4/4/2022	0	0	383	0.29			42.7		
61	41.3334017743 -73.123705799	6/30/2021									
62	41.3319276428 -73.125246819	6/30/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
63	41.312375285 -73.1537978872	6/18/2021									
64	41.3167008758 - 73.153288798	6/18/2021									
66	41.3363292365 - 73.157313744	6/14/2021									
67	-73.1608197596 41.2842121441	6/16/2022									
68	-73.1626450221 41.282678677	6/16/2022									
69	41.3625230714 - 73.153910302	6/7/2021	0	0	456	0.2	27	0.03	64.5		
70	41.3686229794 - 73.154982028	6/7/2021									
71	-73.1906238663 41.2994539988	6/30/2022									
72	-73.1903009921 41.2985339372	6/30/2022									
73	-73.1897024857 41.2978587641	6/30/2022									
75	-73.1703086552 41.2846494763	6/30/2022									
76	-73.1701963944 41.2844726377	6/30/2022									
77	-73.1746066828 41.2861768951	6/30/2022									
78	-73.1730913074 41.2858945989	6/30/2022									
79	-73.1693012343 41.281633199	6/30/2022									
83	-73.159746669 41.2875980586	6/14/2022									
84	-73.1596507882 41.2877960544	6/14/2022									
85	-73.1656214553 41.2848154241	6/16/2022									
86	41.314799771 - 73.154286756	6/18/2021									
87	41.3161542609 - 73.153978919	6/18/2021									
89	41.3447302453 - 73.143708409	6/14/2021	0	0	312	0.14	0	ND	64.4		

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
90	41.349873632 - 73.1437679767	6/14/2021									
91	41.349956601 - 73.1441863431	6/14/2021									
92	41.3526609423 - 73.144530129	6/14/2021									
93	41.3437461081 - 73.145507873	6/14/2021	0	0	474	0.2	0	ND	61.1		
94	41.3489318919 - 73.142115966	6/14/2021									
95	41.3498620605 - 73.141159793	6/14/2021									
96	41.3498498709 - 73.139572513	6/14/2021									
97	41.3467859399 - 73.143093622	6/14/2021									
98	41.3458726217 - 73.142983172	6/14/2021	0	0	473	0.15	0	ND	64		
99	41.346533095 - 73.136902114	6/14/2021	0	0	464	0.38	0	ND	61.7		
100	41.3464809125 - 73.136631451	6/14/2021	0	0	631	0.41	0	ND	64.1		
101	41.3717353275 - 73.159268587	6/7/2021									
105	-73.1533287463 41.2708220452	6/14/2022									
106	-73.153410425 41.2705232248	6/14/2022									
107	41.2920704974 - 73.158961502	6/23/2021									
108	41.2920592132 - 73.156813982	6/23/2021									
109	-73.1595771417 41.2731342539	6/30/2022	0	0	329	0.29	4	ND	65.9		
110	-73.1669109941 41.2720482936	6/14/2022									
111	-73.167808127 41.2722349023	6/14/2022									
112	-73.1675701345 41.2722086704	6/14/2022									
113	-73.1677169563 41.2720700734	6/14/2022									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
114	-73.1384098793 41.3133416046	5/2/2022									
119	41.3004477999 - 73.183998969	6/22/2021									
129	-73.1118701412 41.3254685138	4/4/2022	0	0	347	0.37	272	0.06	42.1		
130	41.3477655581 - 73.160772400	6/10/2021									
131	41.3469506448 - 73.160825843	6/10/2021									
132	-73.1481621075 41.2855640607	6/14/2022									
133	-73.1516762008 41.284239697	6/14/2022									
134	-73.1497441954 41.2824806659	6/14/2022									
136	41.3559815635 - 73.171427157	6/10/2021									
138	-73.1740293763 41.2845997343	6/30/2022									
139	-73.1757410725 41.2855694384	6/30/2022									
140	-73.1760102355 41.2848426626	6/30/2022									
141	-73.175549302 41.2878917172	6/30/2022									
148	41.3210048516 - 73.142506703	6/30/2021									
150	-73.1685196485 41.2801322309	6/30/2022									
151	-73.1703373615 41.2797498275	6/30/2022									
153	41.2900014589 - 73.163910174	6/14/2021									
156	41.3494391091 - 73.171662107	6/10/2021	0	0	616	0.49	0	ND	64.5		
157	41.353491707 - 73.1716966247	6/10/2021									
158	41.3117626334 - 73.161974219	6/16/2021	0	0	458	0.11	**2420**	0.01	59.9		
162	41.3548334919 - 73.151662874	6/10/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
163	41.3136637336 - 73.180002031	6/16/2021									
164	41.311933832 - 73.1792194098	6/16/2021	0	0	397	0.3	**1986**	0.03	62		
165	-73.1528170242 41.2828463117	6/14/2022									
167	-73.154447357 41.2818287676	6/14/2022									
169	-73.1677636357 41.2792550694	6/30/2022									
171	41.3497381038 - 73.164357951	6/10/2021	0	0	615	0.12	0	ND	64.3		
172	41.3476304977 - 73.169100594	6/10/2021	0	0	521	0.47	0	ND	63.7		
174	41.355425387 - 73.1537446962	6/10/2021									
177	-73.1681293822 41.2738615536	6/14/2022									
178	-73.1664875531 41.2734318481	5/2/2022									
179	-73.1392529573 41.3105793767	5/2/2022									
180	-73.1390099066 41.3105941076	5/2/2022									
181	-73.1670223891 41.2757518828	6/30/2022									
188	41.3176200471 - 73.180690533	6/16/2021									
189	41.3174731707 - 73.182636502	6/16/2021									
190	41.358323076 - 73.1644491817	6/7/2021									
191	41.3588836624 - 73.164294949	6/7/2021									
192	41.3588811265 - 73.164035887	6/7/2021									
222	41.3243918583 - 73.141960842	6/30/2021									
224	41.3368814848 - 73.160869062	6/14/2021									
225	41.3532652938 - 73.162995319	6/14/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
226	41.3543866453 - 73.162262541	6/14/2021									
227	41.3550589241 - 73.163398512	6/14/2021									
228	41.3072939884 - 73.168987544	6/22/2021									
229	41.3089970501 - 73.172269944	6/22/2021									
230	41.3565696688 - 73.151429430	6/10/2021									
231	41.3565392667 - 73.151166062	6/10/2021									
233	41.3037030752 - 73.143899168	6/18/2021									
234	41.3307823358 - 73.124505265	6/30/2021									
235	41.3747766022 - 73.157924119	6/7/2021	0	0	489	0.48	0	0.17	62.3		
241	41.3609668362 - 73.165621268	6/7/2021									
242	41.359239583 - 73.1643672788	6/7/2021									
243	41.3591153662 - 73.168162581	6/7/2021									
244	41.3587497694 - 73.168983239	6/7/2021									
245	41.3581804073 - 73.170296374	6/7/2021									
246	41.3610562914 - 73.164707007	6/7/2021									
247	41.3609059562 - 73.164898403	6/7/2021									
248	41.3604262441 - 73.161046116	6/7/2021									
249	41.3637274215 - 73.163117224	6/7/2021									
250	41.3034995668 - 73.184653411	6/18/2021									
251	41.3044867199 - 73.182211024	6/18/2021									
252	41.3060328462 - 73.182489191	6/18/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity , umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
253	41.3060657623 - 73.184683021	6/18/2021									
254	41.307064142 - 73.1799469444	6/18/2021									
255	41.3080732112 - 73.184092020	6/18/2021									
256	41.3088544792 - 73.182276057	6/18/2021									
257	-73.1919580242 41.2992234267	6/30/2022									
258	41.362174327 - 73.1658287213	6/7/2021									
259	41.3091655957 - 73.163539407	6/22/2021									
262	-73.1468621989 41.2874557288	6/14/2022									
263	-73.1457963334 41.2870443786	6/14/2022									
264	41.3116986083 - 73.184705526	6/16/2021									
267	-73.1684635272 41.2692820678	6/14/2022									
268	-73.1505491518 41.2864888358	6/14/2022									
269	-73.1524815535 41.2848804074	6/14/2022									
270	41.3072063816 - 73.176107268	6/18/2021									
271	41.3045601702 - 73.176200739	6/18/2021									
272	41.3072967458 - 73.180918025	6/18/2021									
273	41.3071847161 - 73.181466977	6/18/2021									
274	41.365619992 - 73.1637187761	6/7/2021									
275	41.2773410454 -73.1800165644	6/30/2022									
277	41.3626593273 - 73.150987235	6/7/2021									
278	41.3626070804 - 73.150333245	6/7/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
279	41.2747759309 -73.1637267379	5/2/2022									
280	41.3677144846 - 73.150624699	6/7/2021	0	0	265	0.49	26	0.05	61.5		
281	41.3141186527 -73.0996742241	4/4/2022	0	0	215	0.22	13	0.04	41.9		
282	41.2860362599 -73.1695504573	6/30/2022									
284	41.3238083542 - 73.136352431	6/30/2021									
285	41.3265236881 -73.1188367107	4/4/2022									
286	41.3252554816 -73.1166871666	4/4/2022									
287	41.2835279439 -73.1307048153	5/2/2022									
288	41.2824301724 -73.1311432307	5/2/2022									
292	41.3253334718 - 73.132849320	6/30/2021									
293	41.3256356131 -73.1322621872	3/30/2022									
294	41.3564658819 - 73.148846789	6/10/2021									
302	41.3463734126 - 73.166200981	6/10/2021									
303	41.3287784724 - 73.135119629	6/30/2021									
305	41.3290516976 - 73.137485895	6/30/2021									
306	41.3287737106 - 73.137638562	6/30/2021									
307	41.2973116726 -73.1150469544	5/2/2022									
308	41.2956291477 -73.114591155	5/2/2022									
309	41.2949340374 -73.1144527857	5/2/2022									
310	41.3443297652 - 73.165903312	6/10/2021									
313	41.3133815606 -73.1282104446	4/5/2022									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
314	41.3144488089 -73.1271983745	4/5/2022									
315	41.3150048766 -73.1266151025	4/5/2022									
316	41.315607738 -73.1256003513	4/5/2022									
317	41.3168600734 -73.1226490219	4/5/2022									
318	41.316263327 -73.1207691004	4/5/2022	0	0	219	0.02	57	0.03	44.1		
319	41.3173981414 -73.1220263782	4/5/2022									
320	41.3189613406 -73.1248917088	5/2/2022									
321	41.3179808568 -73.1252318155	5/2/2022	0	0	216	0.35	0	ND	51.1		
322	41.3292234003 -73.133857183	6/30/2021									
323	41.3269033028 -73.132276524	6/30/2021	0	0	242	0.2	13	ND	63.4		
329	41.3162047503 -73.143926444	6/18/2021									
330	41.3333674602 -73.1309591693	4/4/2022									
333	41.3282368241 -73.140310901	6/30/2021	0	0	300	0.18	9	ND	60.2		
338	41.305306191 -73.1524678488	6/18/2021									
339	41.3142960499 -73.179234988	6/16/2021									
340	41.3149525528 -73.184357402	6/16/2021									
343	41.2952373257 -73.1915613959	6/30/2022									
344	41.3496539368 -73.146114255	6/14/2021									
345	41.3492406924 -73.147870486	6/14/2021									
346	41.3467002058 -73.148285421	6/14/2021									
352	41.301171879 -73.1942728693	6/30/2022									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
354	41.34577214 - 73.1403644787	6/14/2021	0	0	619	0.14	0	0.06	63		
355	41.3145268119 - 73.151244950	6/18/2021									
356	41.3139738901 - 73.152566537	6/18/2021									
357	41.3130977659 - 73.15407027	6/22/2021	0	0	512	0.47	46	ND	59.7		
358	41.3130387409 - 73.155351206	6/16/2021									
359	41.3559295862 - 73.159458136	6/10/2021									
360	41.3573747408 - 73.159434743	6/10/2021									
361	41.3595066508 - 73.160442018	6/10/2021									
362	41.3563804181 - 73.157804289	6/7/2021									
363	41.3583970597 - 73.155006348	6/7/2021									
364	41.357843767 - 73.1612109061	6/10/2021									
365	41.3578982928 - 73.158260413	6/7/2021									
366	41.3667808906 - 73.160548947	6/7/2021	0	0	458	0.16	43	0.06	61.5		
367	41.3677743477 - 73.159797178	6/7/2021									
368	41.3660168473 - 73.163234113	6/7/2021	0	0	361	0.5	58	ND	63.5		
369	41.3672690201 - 73.162371226	6/7/2021	0	0	581	0.16	13	0.05	63.2		
370	41.3684667235 - 73.161872782	6/7/2021	0	0	488	0.15	35	0.04	63.8		
371	41.3702114252 - 73.160155890	6/7/2021	0	0	294	0.32	0	ND	60.5		
372	41.3709096355 - 73.159357956	6/7/2021									
373	41.362499361 - 73.158964565	6/7/2021									
374	41.307720066 - 73.1531207589	6/18/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
375	41.3050068134 -73.153869872	6/18/2021									
376	41.2800175271 -73.1760457118	6/30/2022									
377	41.282158956 -73.1762169725	6/30/2022									
378	41.2834810739 -73.1745496446	6/30/2022									
379	41.3089193897 -73.174139988	6/22/2021									
382	41.3212410364 -73.175457001	6/14/2021									
385	41.3161955434 -73.174879733	6/16/2021									
386	41.319611327 -73.1007806473	4/4/2022									
389	41.3481807107 -73.159240074	6/10/2021									
390	41.2818561163 -73.1809824313	6/30/2022									
392	41.2783581344 -73.161978782	6/30/2022									
396	41.2966957093 -73.1097416212	5/2/2022									
397	41.2955679001 -73.1111144003	5/2/2022									
401	41.2939385758 -73.1125014636	5/2/2022									
402	41.3006387672 -73.1113707842	5/2/2022									
405	41.2819160327 -73.1582564967	4/4/2022									
405	41.3309865487 -73.1313183645	6/14/2022									
406	41.2853188485 -73.1593602339	6/14/2022									
407	41.2878448403 -73.1571498428	6/14/2022									
409	41.33982874 -73.1474846386	6/14/2021									
410	41.3018605519 -73.184946569	6/22/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
411	41.3025447718 - 73.183736773	6/22/2021									
422	41.2979796968 - 73.154843357	6/18/2021									
423	41.2968196797 - 73.14811034	6/18/2021									
424	41.2878448403 -73.1571498428	5/2/2022									
425	41.2878448403 -73.1571498428	5/2/2022									
427	41.3194234663 - 73.178995545	6/14/2021									
428	41.3193047176 - 73.178745464	6/14/2021									
430	41.3141143436 - 73.17344830	6/22/2021									
431	41.3139075617 - 73.172922098	6/22/2021									
432	41.2878448403 -73.1571498428	6/17/2022									
435	41.33778007 - 73.1401796004	6/14/2021									
444	41.3167548709 - 73.169411165	6/16/2021									
445	41.3179721599 - 73.169193278	6/18/2021									
448	41.305433106 - 73.1482669517	6/18/2021									
449	41.3083357016 - 73.152472247	6/18/2021									
450	41.3086942681 - 73.149444285	6/22/2021	0.1	0	322	0.42	12	ND	62.3		
452	41.2984239021 - 73.148208885	6/18/2021									
455	41.2878448403 -73.1571498428	6/30/2022									
456	41.3681763529 - 73.15056959	6/7/2021									
457	41.351792929 - 73.1535461355	6/10/2021									
458	41.3520884138 - 73.152928554	6/10/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity , umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
459	41.3527500234 - 73.152219764	6/10/2021									
461	41.2878448403 -73.1571498428	6/30/2022									
463	41.3433339187 - 73.150612310	6/14/2021									
466	41.2878448403 -73.1571498428	6/30/2022									
467	41.2878448403 -73.1571498428	6/30/2022									
468	41.2878448403 -73.1571498428	6/30/2022									
469	41.2878448403 -73.1571498428	5/2/2022									
472	41.2938870077 - 73.168327075	6/23/2021									
473	41.2963623181 - 73.168575747	6/23/2021									
474	41.2974130975 - 73.167886566	6/23/2021									
475	41.3124962302 - 73.176999108	6/22/2021									
476	41.2878448403 -73.1571498428	6/30/2022									
479	41.2878448403 -73.1571498428	5/2/2022									
480	41.2878448403 -73.1571498428	5/2/2022									
481	41.2878448403 -73.1571498428	5/2/2022									
485	41.2950386836 - 73.172031024	6/22/2021									
486	41.2958561652 - 73.171910077	6/22/2021									
487	41.2968956974 - 73.168878071	6/22/2021									
488	41.2977068168 - 73.171745003	6/22/2021									
490	41.2878448403 -73.1571498428	3/30/2022									
491	41.3245951529 - 73.175732955	6/14/2021	0	0	429	0.16	1	0.08	63.2		

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
492	41.3274498583 - 73.174073277	6/14/2021	0	0	253	0.29	0	0.12	59.9		
494	41.3419360191 - 73.154125787	6/14/2021	0	0	308	0.27	0	0.01	63.5		
495	41.3410269331 - 73.152133791	6/14/2021	0	0	556	0.4	0	0.07	62.3		
496	41.3404540026 - 73.153147411	6/14/2021									
500	41.298770864 - 73.166474342	6/23/2021									
501	41.2878448403 -73.1571498428	6/14/2022									
502	41.2878448403 -73.1571498428	6/30/2022									
504	41.2878448403 -73.1571498428	6/30/2022									
505	41.2878448403 -73.1571498428	6/14/2022									
506	41.2878448403 -73.1571498428	6/14/2022									
507	41.2878448403 -73.1571498428	6/30/2022									
508	41.2878448403 -73.1571498428	6/30/2022									
509	41.2878448403 -73.1571498428	6/30/2022									
510	41.2878448403 -73.1571498428	6/14/2022									
511	41.3231003481 - 73.181594883	6/14/2021									
512	41.3254050743 - 73.178584580	6/14/2021									
513	41.2947343348 - 73.157823174	6/23/2021									
515	41.2947357269 - 73.154157120	6/23/2021									
516	41.2937382309 - 73.157551261	6/23/2021									
517	41.30091602 - 73.1553068335	6/18/2021									
520	41.3217787238 - 73.170264431	6/16/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
521	41.3203742187 -73.168082263	6/16/2021									
522	41.3109107936 -73.173762611	6/22/2021									
523	41.3103789616 -73.172398095	6/22/2021									
524	41.3107563087 -73.171065164	6/22/2021									
525	41.2878448403 -73.1571498428	6/30/2022									
527	41.3189994039 -73.181095377	6/14/2021									
528	41.2878448403 -73.1571498428	6/14/2022									
530	41.3679026815 -73.156504496	6/7/2021									
531	41.2878448403 -73.1571498428	6/30/2022									
534	41.3245947773 -73.173697312	6/14/2021	0	0	551	0.11	0	0.08	61.2		
535	41.2927436215 -73.094142408	6/22/2021	0	0	318	0.4	19	ND	611		
536	41.2917544182 -73.158914699	6/23/2021									
543	41.2878448403 -73.1571498428	4/4/2022									
545	41.2878448403 -73.1571498428	6/30/2022									
546	41.2967458379 -73.184697826	6/22/2021									
550	41.2878448403 -73.1571498428	5/2/2022									
554	41.317961129 -73.1869895602	6/16/2021									
555	41.3381968876 -73.154468828	6/14/2021	0	0	259	0.48	0	0.05	60.5		
556	41.3423505378 -73.156796239	6/14/2021									
557	41.2972173436 -73.179583772	6/22/2021									
561	41.3608715803 -73.152409158	6/7/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
564	41.3403465119 - 73.137921535	6/14/2021									
565	41.3400685818 - 73.137462716	6/14/2021									
566	41.3404184332 - 73.136932085	6/14/2021									
569	41.2878448403 -73.1571498428	5/2/2022									
570	41.2878448403 -73.1571498428	4/4/2022									
571	41.2878448403 -73.1571498428	4/4/2022									
572	41.2878448403 -73.1571498428	6/30/2022									
583	41.2996944203 - 73.174754421	6/23/2021									
585	41.2941019645 - 73.163098653	6/23/2021									
599	41.3488669366 - 73.167398419	6/10/2021	0	0	579	0.32	0	0.04	60.1		
600	41.3490155188 - 73.161808507	6/10/2021									
601	41.3456724371 - 73.159810704	6/14/2021									
602	41.3487385764 - 73.152139235	6/10/2021									
604	41.3454435814 - 73.147231818	6/14/2021									
605	41.3488261915 - 73.140150173	6/14/2021									
612	41.3348812524 - 73.157937655	6/14/2021									
616	41.334542692 - 73.1438512835	6/14/2021									
619	41.3208697029 - 73.185208454	6/16/2021									
620	41.3213400025 - 73.179736773	6/14/2021									
621	41.3225545111 - 73.174513372	6/14/2021									
622	41.3223252685 - 73.176197563	6/14/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
623	41.3154595278 - 73.177992080	6/16/2021									
624	41.3132090674 - 73.176149340	6/22/2021	0	0	400	0.12	12	ND	61.7		
625	41.3117748221 - 73.173091202	6/22/2021									
631	41.3098948043 - 73.155431982	6/16/2021									
633	41.314645453 - 73.1473305057	6/22/2021	0	0	410	0.32	12	ND	61.3		
634	41.3135182528 - 73.146289102	6/18/2021									
636	41.312289193 - 73.1444878247	6/18/2021									
637	41.311695401 - 73.1482359495	6/22/2021	0	0	322	0.42	22	ND	62.3		
638	41.2878448403 -73.1571498428	5/2/2022									
639	41.2878448403 -73.1571498428	5/2/2022									
640	41.2878448403 -73.1571498428	4/5/2022									
641	41.2878448403 -73.1571498428	4/5/2022									
643	41.2878448403 -73.1571498428	4/4/2022									
644	41.2878448403 -73.1571498428	4/4/2022	0	0	508	0.13	2	0.03	41.7		
645	41.2878448403 -73.1571498428	4/4/2022									
646	41.2878448403 -73.1571498428	4/4/2022									
652	41.2878448403 -73.1571498428	6/30/2022									
653	41.2878448403 -73.1571498428	6/30/2022									
654	41.2878448403 -73.1571498428	6/30/2022									
655	41.2878448403 -73.1571498428	6/30/2022									
656	41.2878448403 -73.1571498428	6/30/2022									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
657	41.2878448403 -73.1571498428	6/30/2022									
658	41.2878448403 -73.1571498428	6/30/2022									
659	41.2878448403 -73.1571498428	6/30/2022									
660	41.2878448403 -73.1571498428	6/16/2022									
661	41.2878448403 -73.1571498428	6/16/2022									
662	41.2878448403 -73.1571498428	6/16/2022									
663	41.2878448403 -73.1571498428	6/30/2022									
670	41.2878448403 -73.1571498428	6/30/2022									
671	41.2878448403 -73.1571498428	6/30/2022									
672	41.3002699236 - 73.182685623	6/22/2021									
673	41.2984095682 - 73.182743613	6/22/2021									
674	41.2974219325 - 73.178657923	6/22/2021									
675	41.3024009258 - 73.177637525	6/22/2021									
676	41.3022371889 - 73.174129640	6/22/2021									
677	41.3017460866 - 73.174475226	6/22/2021									
678	41.3008795277 - 73.175331418	6/22/2021									
679	41.2988643845 - 73.174717083	6/22/2021									
680	41.2978461224 - 73.174337044	6/22/2021									
681	41.2978304182 - 73.172914094	6/22/2021									
682	41.2966649165 - 73.174103377	6/22/2021									
683	41.2984721934 - 73.169391687	6/22/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
684	41.2982849106 - 73.172382146	6/22/2021									
685	41.3005144943 - 73.173863680	6/22/2021									
686	41.2997913898 - 73.171447140	6/22/2021									
687	41.3007746807 - 73.169284486	6/22/2021									
688	41.2984553747 - 73.154846594	6/18/2021									
689	41.3000856673 - 73.162798583	6/23/2021									
690	41.299487442 - 73.162644754	6/23/2021									
691	41.2987263949 - 73.162704207	6/23/2021									
692	41.2965437032 - 73.163920313	6/23/2021									
693	41.3009532543 - 73.162329853	6/23/2021									
694	41.29930612 - 73.164558000	6/23/2021									
695	41.2992176465 - 73.165305522	6/23/2021									
696	41.2976658359 - 73.164952321	6/23/2021									
697	41.3022030022 - 73.150339107	6/18/2021									
698	41.2976964744 - 73.14495409	6/18/2021									
699	41.2977866383 - 73.145578553	6/18/2021									
700	41.2972015516 - 73.144256108	6/18/2021									
701	41.2975383715 - 73.144167326	6/18/2021									
702	41.2966920109 - 73.144343847	6/18/2021									
704	41.298061851 - 73.150160970	6/18/2021									
705	41.2994267515 - 73.150223057	6/18/2021									

Outfall / Intercon. ID	Latitude / Longitude	Screening / sample date	Ammonia, mg/L	Chlorine, mg/L	Conductivity, umhos/cm	Salinity, ppm	E. coli or enterococcus, col/100mL	Surfactants, mg/L	Water Temp, deg F	Pollutant of concern	If required, follow-up actions taken
Note: Where no values are shown for an outfall, the outfall was not flowing at the time of screening.											
706	41.3001880666 -73.15052469	6/18/2021									
707	41.3015445303 -73.151635613	6/18/2021									
708	41.3020902104 -73.152283469	6/18/2021									
745	41.2878448403 -73.1571498428	5/2/2022									
751	41.2878448403 -73.1571498428	5/2/2022									
CB 5235	41.33216 -73.14123	6/30/2021	0	0	540	0.47	11	0.04	60.4		

2.2 Wet weather sample and inspection data

This sampling data is the baseline wet weather priority catchment investigation sampling. For details on this requirement, visit https://nemo.uconn.edu/ms4/tasks/monitoring/. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

Provide baseline sample data for outfalls and key junction manholes of any catchment area (all high priority, low priority, and problem outfalls within the priority area) with at least one System Vulnerability Factor. **You may also attach an excel spreadsheet with the same data rather than copying it to this table.** If you do attach a spreadsheet, please write "See Attachment" below.

Note: The City of Shelton reported some wet weather bacteria sampling above in compliance with the Bacteria water quality impairments.

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

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

For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

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
1-1C	*Farmill River*	*1, 3, 5, 6, 8*

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 that 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 that poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Latitude / Longitude	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants
None						

3.3 Wet weather investigation outfall sampling data

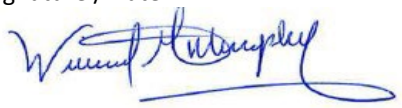
This sampling is the follow-up investigations for the wet weather priority catchment investigation. Provide follow-up sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor. Follow-up investigations must take place within one year and again within five years. **You may also attach an excel spreadsheet with the same data rather than copying it to this table.** If you do attach a spreadsheet, please write "See Attachment" below.

Outfall ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Surfactants
None					

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
None							

Part IV: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."	
Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name: Rimas Balsys	Print name: William G. Murphy, P.E.
Signature / Date:	Signature / Date:  2/8/2023
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