

2020 ANNUAL REPORT

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)

Registration No. GSM000023

for

*Town of Waterford, CT
15 Rope Ferry Road
Waterford, CT 06385*



Prepared By:



**41 Sequin Drive
Glastonbury, CT 06033
T: 860.633.8770
F: 860.633.5971**

MS4 General Permit
Town of Waterford 2020 Annual Report
Existing MS4 Permittee
Permit Number GSM000023
January 1, 2020 – December 31, 2020

Primary MS4 Contact: Gary J. Schneider; Director of Public Works; (860) 444-5864; gschneider@waterfordct.org

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

Part I: Summary of Minimum Control Measure Activities

1. PUBLIC EDUCATION AND OUTREACH (Section 6 (a)(1) / page 19)

1.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|---|---------------|---|--|---|-------------|--|---------------------------|
| 1-1 Implement public education and outreach | Complete | Link was created for accessing the Town's Stormwater Regulations website. Links were added discussing Stormwater & Water Quality, Impervious Cover, Urban Runoff, the NPDES Program and Save the Sound. Planning & Development and Recreation & Parks added a webpage link to the Stormwater. Informational material is also present at Town offices. | Continue distributing educational brochures as bill inserts, mailings, and fact sheets at town offices and with building permits, and on the town website. | Department of Public Works | Jul 1, 2018 | Mar 23, 2018 On-going | |
| 1-2 Address education/outreach for pollutants of concern* | Complete | Weblinks regarding nitrogen, phosphorus, turbidity and bacteria were added to the Stormwater website. | Develop and Distribute Information on Nitrogen and Bacteria Pollution | Department of Public Works | Jul 1, 2018 | June 8, 2018 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|---|----------|---|---|--------------------------------------|----------|---------------------------------|---|
| 1-3 Town Website | Complete | Public educational documents have been made available on the Town's Stormwater webpage. The SMP and draft Annual Report were added to the webpage. A link has been added for the Construction Stormwater General Permit to the webpage. | Update website to include additional stormwater information. | Department of Public Works | Jan 2018 | Mar 23, 2018 | |
| 1-4 Catch Basin Stenciling/Badges | Complete | All catch basins have been stenciled. | Continue an on-going stenciling program in which basins in Town are prioritized and stenciled. | Department of Public Works | N/A | On-going | The Town will continue its catch basin stenciling program, as needed. |
| 1-5 Household Hazardous Waste Collection Days | Complete | HHW Collections Days were conducted. | Continue program in an effort to remove household hazardous waste safely from the waste stream using a Qualifying Local Program | Department of Public Works | Annually | On-going | SCRRRA provided fliers. Conducted monthly on Saturdays Apr thru Nov, 2020 |

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

- Continue to update the Town's Stormwater webpage with new/updated stormwater related information
- Continue distributing educational brochures
- Attempt to coordinate efforts with local schools for presentation on stormwater management
- Continue the catch basin stenciling/badges program, as needed
- Continue to coordinate HHW program

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 |
|--|---|--------------------------------------|--|----------------------------------|
| Stormwater Management website was created | General Public | Stormwater runoff | All | Department of Public Works |
| Link for information on Household Hazardous Waste was added to the Public Works webpage | General Public | HHW Disposal | All | Department of Public Works |
| Links were added to the Stormwater Regulations website that discuss the following areas: Stormwater & Water Quality, Impervious Cover, Urban Runoff, the NPDES Program and Save the Sound. | General Public | General stormwater management topics | All | Department of Public Works |

2. PUBLIC INVOLVEMENT/PARTICIPATION (Section 6(a)(2) / page 21)

2.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|---|----------|---|--|--------------------------------------|---------------------|--|---|
| 2-1a Final Stormwater Management Plan publicly available | Complete | Notice of the SMP was published in The Day newspaper and on Town's Stormwater website. | Notify public of published SMP and document comments received. | Department of Public Works | Apr 3, 2017 | April 1, 2017 | The Stormwater Management Plan will be reviewed periodically and updated, as necessary. |
| 2-1b Comply with public notice requirements for the Annual Report | Complete | Notice of the draft Annual Report was posted on the Town's website. | Notify public of draft Annual Report and document comments received. | Department of Public Works | January 31 Annually | Feb 23, 2020 Feb 17, 2021 | |
| 2-2 Community Group Engagement | Complete | The Planning Department and Public Works department continue to work with the Niantic River Watershed Committee in implementation of educational programs, and installation of LID measures within the Niantic Watershed. Due to the pandemic this year, the residential outreach components of the program were suspended. | Identify and reach out to local organizations that may want to participate in review and implementation of this SMP. | Department of Public Works | Feb 15, 2018 | On-going | NEIWPCC continued a pilot community social marketing campaign on reducing fertilizer application, including garbage container stickers. |
| 2-3 Interagency Meetings | Complete | Meetings were held throughout the year with Public Works and Planning & Development. | Continue to facilitate a panel of staff and volunteers. | Department of Public Works | Ongoing | 2/6/20 2/19/20; 3/10/20; 4/8/20; 7/20/20 On-going | |

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

- Continue to provide notice of updated SMPs and draft Annual Reports
- Continue to engage Community Groups
- Continue interagency meetings

2.3 Public Involvement/Participation reporting metrics

| Metrics | Implemented | Date | Posted |
|--|-------------|--|--|
| Availability of the Stormwater Management Plan announced to public | Yes | April 1, 2017 | The Day, Planning & Development and Town Clerk's Offices, Department of Public Works Complex, the Library and http://www.waterfordct.org/sites/waterfordct/files/file/file/20170912_waterford_bmp_smp_2017.pdf |
| Announcement to public and availability of Annual Report | Yes | 2019 Report Announced 2/23/20 2020 Report Announced 2/17/21 | Planning & Development and Town Clerk's Offices, Department of Public Works Complex, the Library and https://www.waterfordct.org/sites/waterfordct/files/uploads/2019_waterford_ms4_annual_report_draft.pdf |

3. ILLICIT DISCHARGE DETECTION AND ELIMINATION (Section 6(a)(3) and Appendix B / page 22)

3.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|--|----------------------|---|--|--------------------------------|-------------|---------------------------|--|
| 3-1 Develop written IDDE program | Complete | The Town finalized its IDDE program. | Development and implement an IDDE Program | Department of Public Works | Jul 1, 2018 | Apr 29, 2020 | |
| 3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas | In Progress | The Town conducted significant efforts to locate additional outfalls in priority areas that were not previously identified. | Finalize mapping of all MS4 Outfalls | Department of Public works | Jul 1, 2019 | December 2021 | The Town will continue to update its mapping as new information is gathered. |
| 3-3 Develop citizen reporting program | In Progress | Currently, citizens can call the Department of Public Works to report any activities. Updated system will be developed to include use of <i>Municipity Software</i> . | Develop an online method for citizens to report spills and illicit dischargers | Department of Public Works | Jul 1, 2017 | December 2021 | The Town is adding an email and phone contact of the will be provided in the stormwater page for reporting illicit discharges. |
| 3-4 Establish legal authority to prohibit illicit discharges | Substantial Complete | Current ordinance generally meets requirements. The Town reviewed its ordinance against the template provided by UConn CLEAR and will be making slight changes to be more consistent with the template. | Review and update ordinances. | Department of Public Works | Jul 1, 2018 | December 2021 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|--|-------------|---|---|--------------------------------------|-------------|---------------------------------|---|
| 3-5 Develop record keeping system for IDDE tracking | Complete | The Town currently uses excel and access spreadsheets, along with GIS, for IDDE tracking. | Record illicit discharge abatement activities. Develop and maintain an SSO inventory. | Department of Public Works | Jul 1, 2017 | Jul 1, 2017 On-going | The Town started developing a recording system for IDDE tracking using the <i>Municipality Software</i> . |
| 3-6 Address IDDE in areas with pollutants of concern | In Progress | The Town continues to identify structures that are not connected to the sanitary sewer system which are located near the MS4. | Identify which areas in Town are most likely to contribute nitrogen phosphorous, and bacteria to the MS4 (IDDEs). | Department of Public Works | Jun 2020 | On-going | |
| 3-7 Map MS4 System in Priority Areas | In Progress | The Town conducted significant efforts to locate additional outfalls in priority areas that were not previously identified. The Town also conducted efforts for mapping catch basins, piping and stormwater structures in priority areas. | Map Priority Areas | Department of Public Works | Jun 2022 | On-going | |

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

- Post IDDE Program to the Stormwater webpage and include link in next year's Annual Report
- Post an Illicit Discharge Reporting link on the Stormwater webpage
- Continue updating the MS4 outfall and system mapping
- Maintain master IDDE tracking system
- Investigate illicit discharges in areas with pollutants of concern

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

| Date of Report | Location / suspected source | Response taken |
|----------------------------------|-----------------------------|----------------|
| No reports were recorded in 2020 | | |

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) |
|--|---------------------------------------|--------------------------------------|-----------------------------------|---|--|----------------------------------|
| No illicit discharges were reported during 2020 | | | | | | |
| No SSOs were reported from 2012 through 2020 | | | | | | |

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

Currently, phone calls and emails are received by the Department of Public Works from citizen's reporting possible illicit discharges. The Town will continue tracking illicit discharges using an excel table. The Town is working towards tracking reports and responses using the *Municipality Software* program.

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 |
|---|--|---|
| 409 Mohegan Ave Pkwy; septic system failure | Action initiated by septic installer and repair completed in December 2018 | Unknown |
| 55 Douglas Lane; sewage effluent was surfacing over the leaching structures | Action initiated by septic installer and repair completed in 2020 | Unknown |
| 61 Dayton Rd; sewage effluent was surfacing over the leaching structures | Action initiated by septic installer and repair completed in 2020 | Unknown |
| 63 Bloomingdale Rd; septic tank collapsed | Action initiated by septic installer and repair completed in 2020 | Unknown |

3.7 IDDE reporting metrics

| Metrics | |
|--|------------------------------------|
| Estimated or actual number of MS4 outfalls | 262 |
| Estimated or actual number of interconnections | 10 |
| Outfall mapping complete | 75% |
| Interconnection mapping complete | 25% |
| System-wide mapping complete (detailed MS4 infrastructure) | 30% |
| Outfall assessment and priority ranking | 262 outfalls have initial rankings |
| Dry weather screening of all High and Low priority outfalls complete | 240 of 262 |
| Catchment investigations complete | 6 investigations were initiated |
| Estimated percentage of MS4 catchment area investigated | 2% |

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).

An MS4 and IDDE training program was developed for presentation to all Town personnel that may come into contact with stormwater or that may review applications and plans that impact stormwater quality. Typically, this training is conducted on an annual basis, or as needed when new employees are added. The training program that is typically conducted in the spring for members of Public Utility, Board of Education, Department of Public Works, Parks and Recreation, Police Department, and Fire Department was postponed until further notice due to safety restrictions resulting from the COVID-19 pandemic.

4. CONSTRUCTION SITE RUNOFF CONTROL (Section 6(a)(4) / page 25)

4.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|--|----------|--|---|--------------------------------------|-------------|---------------------------------|---|
| 4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit | Complete | P&Z updated the Subdivision and Zoning Regulations to incorporate LID, green infrastructure, and stormwater design requirements. | Review and update the regulations to be consistent with the requirements of the permit. | Planning | Jul 1, 2019 | April 2018 | The Town will continue to update ordinances/ regulations to improve compliance with MS4 General Permit. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|---|----------|--|--|--------------------------------------|-------------|---------------------------------|--|
| 4-2 Develop/ Implement plan for interdepartmental coordination in site plan review and approval | Complete | Site applications are forwarded to Town Officials for review and comment during application process. Plans are not signed by commission until all departments have signed off on project plan. | Document Current Procedure | Planning | Jul 1, 2017 | Jul 1, 2017 On-going | |
| 4-3 Review site plans for stormwater quality concerns | Complete | Commercial and residential site plans involving greater than 0.5 acre of land disturbance were reviewed for stormwater quality control measures. | Continue to review all design plans for consistency with town and state guidelines for erosion and sediment control. | Planning | Jul 1, 2017 | Jul 1, 2017 On-going | Application review checklists have been revised to include stormwater management regulation requirements |
| 4-4 Conduct site inspections | Complete | Zoning and Inland Wetland enforcement staff verify site development practices are in accordance with approved plans. Planning staff employ an inspection checklist to document compliance and to identify measures requiring repair/additional control measures. Inspections occur after every significant rainfall event. | Document Inspections Performed Continue existing program of construction inspections. | Planning | Jul 1, 2017 | Jul 1, 2017 On-going | |
| 4-5 Implement procedure to allow public comment on site development | Complete | All agendas and minutes are noticed in compliance with State requirements for public notice. Public hearings announced in newspaper. Complaints regarding land-disturbance are forwarded to Planning and Development Department | Document Public Comments | Planning | Jul 1, 2017 | Jul 1, 2017 | |
| 4-6 Implement procedure to notify developers about DEEP construction stormwater permit | Complete | Town agencies notify developers of stormwater requirements. When applicable, developers submit notification of registration to State. P&Z application checklist was revised to require applicant's determination if a Construction Stormwater GP is required. | Update application forms to include determining if Construction Stormwater GP is required. Updated webpage. | Planning | Jul 1, 2017 | Jul 1, 2019 | A note was added to the website regarding need for a Construction Stormwater GP. |

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

- Continue to update ordinances/ regulations to improve compliance with MS4 General Permit.
- Continue to review all design plans for consistency with Town and State guidelines for erosion and sediment control.
- Continue existing program for construction inspections.
- Continue to follow all State public notice and hearing requirements and follow up on all comments and complaints received.

5. POST-CONSTRUCTION STORMWATER MANAGEMENT (Section 6(a)(5) / page 27)

5.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|--|----------|---|---|--------------------------------------|-------------|---------------------------------|---|
| 5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning | Complete | P&Z updated the Subdivision and Zoning Regulations to incorporate LID, green infrastructure, and stormwater design requirements. | Review and update the regulations to be consistent with the requirements of the Permit. | Planning | Jul 1, 2021 | April 2018 | The Town will continue to update ordinances/ regulations to improve compliance with MS4 General Permit. |
| 5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects | Complete | Section 25.6 Stormwater Management regulations require LID, run-off control and stormwater treatment to the maximum extent practicable for all new development >0.5 acre. | Review current regulations to identify and, where appropriate, reduce or eliminate existing regulatory barriers to implementation of LID and runoff reduction practices to the MEP. | Planning | Jul 1, 2019 | April 2018 On-Going | |
| 5-3 Identify retention and detention ponds in priority areas | Complete | Known ponds under the control of the Town have been mapped. | Inventory Town retention/ detention ponds | Department of Public Works | Jul 1, 2019 | Mar 23, 2018 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|---|-------------------------|---|--|--------------------------------------|---------------|---------------------------------|--|
| 5-4 Implement long-term maintenance plan for stormwater basins and treatment structures | Complete | Inspection reports and water quality monitoring for stormwater and treatment basins were completed. Town maintains an inventory of required stormwater management control practices for completed site developments. Documentation of inspection and maintenance of stormwater treatment is requested as part of land use and building permit approvals. Town employees receive instruction on maintenance for rain gardens, stormwater detention /treatment systems. | Develop a maintenance plan for retention/ detention ponds and stormwater treatment structures that it owns or over which it holds an easement or other authority and that are located in the Permittee's priority areas to ensure their long-term effectiveness. | Planning | Jul 1, 2019 | Feb 15, 2018 | All basins and structures are maintained at least annually. |
| 5-5 DCIA mapping | Substantially Completed | The DCIA for the priority areas have been calculated using the available impervious cover layers. | Calculate DCIA | Department of Public Works | Jul 1, 2020 | Jul 1, 2020 On-going | The DCIA mapping will be updated, as necessary, to include retrofit, development and development projects. |
| 5-6 Address post-construction issues in areas with pollutants of concern | To be Started | None | Document issues identified and address. Prioritize areas for the DCIA retrofit program under MCM-6 | Department of Public Works | Not specified | On-going | |

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

- Continue to review and update ordinances/regulations to improve compliance with MS4 General Permit.
- Continue to enforce LID/runoff reduction requirements for development and redevelopment projects.
- Review Stormwater Structures Management Plan for areas of optimization.
- Continue to conduct inspections and water quality monitoring for stormwater and treatment basins.
- Continue updating the DCIA mapping, as necessary.

5.3 Post-Construction Stormwater Management reporting metrics

| Metrics | | |
|---|---------|----------------------------------|
| Baseline (2012) Directly Connected Impervious Area (DCIA) | 240 | acres |
| DCIA disconnected (redevelopment plus retrofits) | Unknown | acres this year / acres total |
| Retrofits completed | Unknown | # |
| DCIA disconnected | TBD | % this year / % total since 2012 |
| Estimated cost of retrofits | Unknown | \$ |
| Detention or retention ponds identified | 9 | # total |

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

- To calculate the baseline DCIA for the Town of Waterford, the Town used the process found on the CT NEMO website. CT NEMO developed 5 formulas to calculate the DCIA and Impervious Cover (IC) independently for each basin in the Town using the percent DCIA for the basin with the state DCIA removed from the equation. The Town took the formulas and created a bell curve to input the calculated percent of DCIA for each basin and calculate the total DCIA and IC amounts for the Town. Each basin value was added together to create the baseline for the DCIA and IC for the Town.

6. Pollution Prevention/Good Housekeeping (Section 6(a)(6) / page 31)

6.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|---|----------|---|--|--|-------------|---------------------------|--|
| 6-1 Develop/ implement formal employee training program | Complete | A training program has been developed. No training events were conducted during 2020 due to safety restrictions resulting from the COVID-19 pandemic. | Track Town employee training | DPW, Parks and Rec., Utility Commission, Waterford Buildings and Grounds, and Waterford BOE. | Jul 1, 2017 | On-going | |
| 6-2 Implement MS4 property and operations maintenance | Complete | Salt piles are stored under cover and on impervious surfaces. Town industrial stormwater discharges are monitored. Vehicle maintenance is performed undercover. | Continue the pattern of MS4 property and operations maintenance in accordance with the Permit. | Department of Public Works, Police Department, Fire Department, Board of Ed, Parks and Rec | Jul 1, 2018 | Jul 1, 2017 On-going | The Town continues reviewing current practices and looking for areas for optimization. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|--|---------------|---|--|--------------------------------|---------------|---------------------------|---|
| 6-3 Implement coordination with interconnected MS4s | In Progress | Through the outfall identification process, the Town has identified several interconnections with the neighboring towns/cities. | Coordinate pollution prevention activities with interconnected MS4s. | Department of Public Works | Not specified | On-going | |
| 6-4 Develop/ implement program to control other sources of pollutants to the MS4 | In Progress | The Town has identified industrial facilities not registered under the DEEP's Industrial Stormwater General Permit. | Develop and implement a program to control the contribution of pollutants to the MS4. | Department of Public Works | Not specified | | The Town plans on notifying industrial facilities of their requirements to register under the Industrial Stormwater GP. |
| 6-5 Evaluate additional measures for discharges to impaired waters* | To be Started | None | Identify potential project locations. | Department of Public Works | Not specified | | |
| 6-6 Track projects that disconnect DCIA | In Progress | A table was created for tracking disconnected DCIA. | Annually track acreage of DCIA disconnected as a result of redevelopment/ retrofit projects within the Town. | Department of Public Works | Jul 1, 2017 | Jul 1, 2019 On-going | The Town is starting tracking disconnected DCIA using the table it created. |
| 6-7 Implement infrastructure repair/rehab program | In Progress | None | Identify MS4 structures to repair, rehabilitate, or upgrade to reduce pollutant discharge. | Department of Public Works | Jul 1, 2021 | December 2021 | The Town will review current practices and look for areas for optimization. |
| 6-8 Develop/ implement plan to identify/prioritize retrofit projects | In Progress | In 2021, the Town will continue working with its consultant to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable. | Develop a retrofit project plan to identify and prioritize DCIA connection projects | Department of Public Works | Jul 1, 2020 | December 2021 | |
| 6-9 Implement retrofit projects to disconnect 2% of DCIA | In Progress | In 2021, the Town will continue working with its consultant to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable. | Implement retrofit projects | Planning | Jul 1, 2022 | Jul 1, 2022 | |
| 6-10 Develop/ implement street sweeping program | Complete | All Town-owned roads are swept every year, starting after the last snow melt. | Continue sweeping all streets at least once per year, as soon as possible after snowmelt. | Department of Public Works | Jul 1, 2017 | Jul 1, 2017 On-going | The Town continues reviewing current practices and looking for areas for optimization. |
| 6-11 Develop/ implement catch basin cleaning program | Complete | The Town cleans approximately 1/3 of all of the catch basins annually. | Continue current maintenance program in accordance with the Permit. | Department of Public Works | Jul 1, 2020 | Jul 1, 2019 On-going | The Town continues reviewing current practices and looking for areas for optimization. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department/ Person Responsible | Due | Date completed/ projected | Additional details |
|---|----------|---|---|--------------------------------|-------------|---------------------------|--|
| 6-12 Develop/ implement snow management practices | Complete | DEEP Guidelines on snow management provided to Town. The Town streets and municipal lots were plowed, as necessary. Roads were treated with salt (no sand), as necessary. | Develop/implement snow management practices | Department of Public Works | Jul 1, 2018 | Jul 1, 2017 On-going | The Town continues reviewing current practices and looking for areas for optimization. |

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

- Conduct annual MS4 training events.
- Continue to review MS4 property and operations maintenance practices and look for areas for optimization.
- Notify industrial facilities of their requirements to register under the Industrial Stormwater GP.
- Continue tracking disconnected DCIA using the table created.
- Continue efforts to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.
- Continue street sweeping, catch basin cleansing and snow management practices.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

| Metrics | |
|--|--|
| Employee training provided for key staff | No training in 2020 due to COVID-19 pandemic |
| Street sweeping | |
| Curb miles swept | 242 miles |
| Volume (or mass) of material collected | 60-75 Cu Yards |
| Catch basin cleaning | |
| Total catch basins in priority areas | ~3,000 |
| Total catch basins in MS4 | ~3,000 |
| Catch basins inspected | 1,000-1,100 |
| Catch basins cleaned | 1,000-1,100 |
| Volume (or mass) of material removed from all catch basins | ~240 CY |
| Volume removed from catch basins to impaired waters (if known) | Unknown |
| Snow management | |
| Type(s) of deicing material used | Salt |
| Total amount of each deicing material applied | ~1,400 tons |
| Type(s) of deicing equipment used | Truck/spreader |
| Lane-miles treated | 242 miles |
| Snow disposal location | N/A |
| Staff training provided on application methods & equipment | Yes – as necessary |

| | |
|--|---------|
| Municipal turf management program actions (for permittee properties in basins with N/P impairments) | |
| Reduction in application of fertilizers (since start of permit) | Unknown |
| Reduction in turf area (since start of permit) | Unknown |
| Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems) | |
| Cost of mitigation actions/retrofits | N/A |

6.4 Catch basin cleaning program

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

Catch basins will all be inspected, cleaned out and the sumps will be measured. A second round of inspections and cleaning will be conducted, and the amount of material removed will be recorded. A list will be generated and the catch basins with the most material present will be put on a more frequent cleaning schedule to ensure that the 50% design capacity for the sump is not exceeded.

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

In 2021, the Town will continue working with its consultant to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.

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

In 2021, the Town will continue working with its consultant to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.

In 2021, the Town will continue working with its consultant to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.

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.

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.

- 1) Wet weather samples were collected from 24 of 47 total outfalls that discharge to impaired waters corresponding to 51% completed.
- 2) 13 outfalls sampled exceeded pollutant thresholds and require follow-up investigation.
- 3) Based on the resulted of the samples collected, the top six (6) worst outfalls have been selected and will began annual sampling in the spring of 2021.

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

2.1 Screening data collected under 2017 permit

Table 2.1a - Class SA & SB Impaired Waterbody Samples

| Outfall ID | Latitude | Longitude | Sample Date | Outfall Turbidity (NTU) | Turbidity Upstream (NTU) | Fecal Coliform (col/100mL) | Enterococcus (col/100mL) | Nitrogen (mg/L) | Phosphorous (mg/L) | Lab | Investigation Required |
|------------|-------------|--------------|-------------|-------------------------|--------------------------|----------------------------|--------------------------|-----------------|--------------------|---------|------------------------|
| 4TH-1 | 41.326394 | -72.175706 | 4/13/2020 | 5.57 | 7.52 | 1190 | 1170 | 0.72 | 0.094 | Phoenix | YES |
| BALD-1 | 41.336172 | -72.144587 | 4/13/2020 | n/a | n/a | 20 | 187 | n/a | n/a | Phoenix | NO |
| BALD-2 | 41.3350363 | -72.14569031 | 4/13/2020 | n/a | n/a | < 10 | 97 | n/a | n/a | Phoenix | NO |
| BLOOM-2 | 41.4010613 | -72.1207251 | 9/25/2018 | 3.34 | 6.07 | n/a | n/a | n/a | n/a | Phoenix | NO |
| GLEN-1 | 41.3172803 | -72.1037312 | 4/24/2020 | n/a | n/a | < 10 | 96 | 0.54 | 0.05 | Phoenix | NO |
| NIARIV-1 | 41.35634543 | -72.17600201 | 4/13/2020 | 6.33 | 0 | 31 | 437 | 0.73 | 0.046 | Phoenix | YES |
| NIARIV-2 | 41.3532664 | -72.1762042 | 4/13/2020 | 0 | 2.11 | 74 | 512 | 0.56 | 0.051 | Phoenix | YES |
| NIARIV-5 | 41.34061 | -72.17339 | 12/30/2019 | 15.5 | 0 | < 10 | 292 | 0.79 | 0.163 | Phoenix | YES |
| NIARIV-6 | 41.3392626 | -72.1736651 | 12/30/2019 | 9.47 | 0 | 52 | 393 | 0.42 | 0.05 | Phoenix | YES |
| NIARIV-7 | 41.3359644 | -72.1740182 | 12/30/2019 | 1.97 | 18.8 | 20 | 171 | 0.57 | 0.082 | Phoenix | NO |
| OLDMIL-2 | 41.4002874 | -72.1150245 | 9/25/2018 | 7.54 | 3.4 | n/a | n/a | n/a | n/a | Phoenix | NO |
| OLDNOR-2 | 41.4031901 | -72.1115214 | 4/24/2020 | n/a | n/a | 41 | 262 | 1.41 | 0.106 | Phoenix | NO |

Table 2.1a - Class SA & SB Impaired Waterbody Samples

| Outfall ID | Latitude | Longitude | Sample Date | Outfall Turbidity (NTU) | Turbidity Upstream (NTU) | Fecal Coliform (col/100mL) | Enterococcus (col/100mL) | Nitrogen (mg/L) | Phosphorous (mg/L) | Lab | Investigation Required |
|------------|-------------|--------------|-------------|-------------------------|--------------------------|----------------------------|--------------------------|-----------------|--------------------|---------|------------------------|
| OLDNOR-3 | 41.4031439 | -72.112051 | 9/25/2018 | n/a | n/a | 3260 | 8160 | 0.52 | 0.117 | Phoenix | YES |
| OLDNOR-4 | 41.40117677 | -72.11190543 | 4/24/2020 | n/a | n/a | 31 | 10 | 0.34 | 0.033 | Phoenix | NO |
| OLDNOR-5 | 41.3996828 | -72.1116347 | 9/25/2018 | 4.98 | 2.44 | n/a | n/a | n/a | n/a | Phoenix | NO |
| OSWE-5 | 41.355933 | -72.1772576 | 4/13/2020 | 0 | 1.14 | < 10 | 537 | 0.75 | 0.046 | Phoenix | YES |
| PARK-1 | 41.3502878 | -72.1858535 | 4/13/2020 | 2.71 | 0.71 | 75 | 1310 | 0.62 | 0.046 | Phoenix | YES |
| RIVSI-2 | 41.3524954 | -72.1870468 | 4/13/2020 | 0 | 2.14 | 301 | 2600 | 0.62 | 0.051 | Phoenix | YES |
| SHAW-1 | 41.3497751 | -72.1817401 | 4/13/2020 | 8.14 | 4.76 | 52 | 1500 | 1.78 | 0.117 | Phoenix | YES |
| WINDW-1 | 41.3169534 | -72.1568046 | 4/13/2020 | n/a | n/a | 882 | 3650 | n/a | n/a | Phoenix | YES |
| WINT-1 | 41.4009492 | -72.1114224 | 9/25/2018 | 18.79 | 13.59 | 11200 | 4610 | 0.4 | 0.09 | Phoenix | YES |
| WINT-2 | 41.40077 | -72.10806 | 9/25/2018 | 11.46 | 7.08 | 1500 | 2250 | 0.43 | 0.046 | Phoenix | YES |

Table 2.1b - Class A & B Impaired Waterbody Samples

| Outfall ID | Latitude | Longitude | Sample Date | Total Coliform (col/100mL) | E. Coli (col/100mL) | Lab | Investigation Required |
|------------|------------|-------------|-------------|----------------------------|---------------------|---------|------------------------|
| OSWE-6 | 41.3567635 | -72.1761815 | 4/13/2020 | 3650 | 10 | Phoenix | NO |
| OSWE-7 | 41.3567781 | -72.1761586 | 12/30/2019 | 30800 | 20 | Phoenix | NO |

2.2 Credit for screening data collected under 2004 permit

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

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

3. Follow-up investigations (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

| Outfall | Status of drainage area investigation | Control measure implementation to address impairment |
|---|---------------------------------------|--|
| It is anticipated that this will be initiated during 2021 | | |

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

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2020.

| Outfall | Sample Date | Parameter(s) | Results | Name of Laboratory (if used) |
|---|-------------|--------------|---------|------------------------------|
| It is anticipated that this will be conducted annually, starting prior to June 30, 2021 | | | | |

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).

See attachment provided with this report.

2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

2.1 Dry weather screening and sampling data from outfalls and interconnections

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Table 2.1a - Non-Impaired Waterbody Samples

| Outfall ID | Latitude | Longitude | Sample Date | Ammonia (mg/L) | Chlorine (mg/L) | Conductivity (umhos/cm) | Salinity (g/kg) | Temp (oC) | MBAs (mg/L) | E. Coli (col/100ml) | Lab | Investigation Required |
|------------|------------|-------------|-------------|----------------|-----------------|-------------------------|-----------------|-----------|-------------|---------------------|---------|------------------------|
| ALMO-1 | 41.3552399 | -72.131162 | 4/1/2020 | 1 | 0 | 94.1 | 0.0424 | 10.3 | 0.25 | < 10 | Phoenix | NO |
| AVERY-1 | 41.3446707 | -72.1372108 | 4/1/2020 | 0 | 0.02 | 259 | 0.126 | 12.3 | 0.25 | 20 | Phoenix | NO |
| AVERY-2 | 41.3439838 | -72.1380138 | 6/20/2018 | 0.25 | 0.07 | 675 | 0.33 | 20.85 | 0.25 | 63 | Phoenix | NO |
| BLN-1 | 41.339836 | -72.1454662 | 10/24/2019 | 0 | 0.06 | 139 | 0.0663 | 12.4 | 0.25 | < 10 | Phoenix | NO |
| BRAM-2 | 41.3194889 | -72.115328 | 5/5/2020 | 0 | 0.02 | 140 | 0.0663 | 14 | 0.25 | < 10 | Phoenix | NO |
| CHAP-1 | 41.3767821 | -72.1225643 | 2/20/2020 | 0.5 | 0.13 | 319 | 0.155 | 6.2 | 0.5 | < 10 | Phoenix | YES |
| CHAP-3 | 41.3757661 | -72.1271063 | 6/18/2018 | 0 | 0.02 | 758 | 0.39 | 22.46 | 0.25 | < 10 | Phoenix | NO |
| COLL-1 | 41.3831457 | -72.1109513 | 7/21/2020 | 3 | 0 | 807 | 0.391 | 27.1 | >3 | >24200 | Phoenix | YES |
| CROSDR-1 | 41.3384009 | -72.1403596 | 1/29/2020 | 0 | 0.55 | 120 | 0.0579 | 4.6 | 0.25 | | Phoenix | NO |
| CROYD-1 | 41.3293422 | -72.1712939 | 5/5/2020 | 0 | 0 | 514 | 0.229 | 13.3 | 0.25 | < 10 | Phoenix | NO |
| DIMM-1 | 41.3118341 | -72.114509 | 5/12/2020 | 0.25 | 0 | 147 | 0.698 | 12.7 | 0.25 | < 10 | Phoenix | NO |
| DOYLE-1 | 41.348095 | -72.1709064 | 7/21/2020 | 0.25 | 0.03 | 217 | 0.102 | 20.2 | 0.25 | 41 | Phoenix | NO |
| FULM-1E | 41.352156 | -72.174253 | 5/12/2020 | 0 | 0.01 | 172 | 0.07 | 12.7 | 0.25 | 85 | Phoenix | NO |

Table 2.1a - Non-Impaired Waterbody Samples

| Outfall ID | Latitude | Longitude | Sample Date | Ammonia (mg/L) | Chlorine (mg/L) | Conductivity (umhos/cm) | Salinity (g/kg) | Temp (oC) | MBAs (mg/L) | E. Coli (col/100ml) | Lab | Investigation Required |
|------------|------------|-------------|-------------|----------------|-----------------|-------------------------|-----------------|-----------|-------------|---------------------|---------|------------------------|
| FULM-2 | 41.3524608 | -72.1741223 | 6/20/2018 | 0.5 | 0.11 | 360 | 0.17 | 16.89 | 0.5 | 393 | Phoenix | YES |
| GOUN-1 | 41.3174841 | -72.1195059 | 5/5/2020 | 0.25 | 0.11 | 125 | 0.0596 | 13.4 | 0 | 10 | Phoenix | NO |
| HICK-1 | 41.384342 | -72.143777 | 1/15/2020 | 0 | 0.16 | 177 | 0.0834 | 10.4 | 0.25 | < 10 | Phoenix | NO |
| HIGRID-1 | 41.3306536 | -72.170537 | 1/22/2020 | 0.25 | 0.06 | 156 | 0.0748 | 8.5 | 0.25 | 10 | Phoenix | NO |
| INA-1 | 41.3496525 | -72.1677084 | 4/1/2020 | 1 | 0.01 | 197 | 0.0952 | 7.7 | 0.25 | < 10 | Phoenix | YES |
| LAUCRE-1 | 41.3299415 | -72.1350245 | 1/29/2020 | 0.25 | 0 | 204 | 0.0942 | 7.8 | 0.25 | < 10 | Phoenix | NO |
| LAUCRE-2 | 41.3299966 | -72.1294099 | 1/29/2020 | 0 | 0 | 187 | 0.0887 | 9.6 | 0.25 | < 10 | Phoenix | NO |
| LONG-1 | 41.3428261 | -72.1510046 | 3/10/2020 | 0 | 0.16 | 229.4 | 0.11 | 7.3 | 0.25 | < 10 | Phoenix | NO |
| MAYF-1 | 41.3176849 | -72.1181761 | 5/5/2020 | 0.25 | 0.44 | 201 | 0.096 | 14.5 | 1 | < 10 | Phoenix | NO |
| OLDCOL-1 | 41.4210875 | -72.132232 | 8/27/2018 | 0.25 | 0.39 | 344 | 0.16 | 23.45 | 0.25 | < 10 | Phoenix | NO |
| PEPP-1 | 41.3303782 | -72.1147537 | 5/5/2020 | 0.25 | 0 | 355 | 0.171 | 14.4 | 0.25 | < 10 | Phoenix | NO |
| PILG-1 | 41.3770728 | -72.1226691 | 6/18/2018 | 0.25 | 0.05 | 210 | 0.11 | 21.34 | 0.25 | < 10 | Phoenix | NO |
| POND-1 | 41.3898657 | -72.1398288 | 1/15/2020 | 0 | 0.05 | 231 | 0.111 | 9.9 | 0 | 30 | Phoenix | NO |
| SEATER-1 | 41.3278522 | -72.1684398 | 5/12/2020 | 0 | 0 | 203 | 0.097 | 13.7 | 0.25 | < 10 | Phoenix | NO |
| SEATER-2 | 41.3295015 | -72.1683705 | 5/12/2020 | 0 | 0.04 | 174 | 0.0826 | 12.6 | 0.25 | < 10 | Phoenix | NO |
| SHORD-1 | 41.3216761 | -72.1475107 | 10/24/2019 | 0 | 0 | 89.4 | 0.0424 | 13 | 0.25 | 98 | Phoenix | NO |
| SHORD-2 | 41.3198319 | -72.1474884 | 9/9/2019 | 0.25 | 0.13 | 275 | 0.139 | 20.1 | 0 | 20 | Phoenix | NO |
| SHORD-4 | 41.315372 | -72.146904 | 6/28/2019 | 0.25 | 0.03 | 215 | 0.12 | 18.21 | 0.25 | 520 | Phoenix | NO |
| SHORD-6 | 41.3095762 | -72.1440754 | 10/24/2019 | 0.25 | 0 | 228 | 0.105 | 18 | 0.25 | 530 | Phoenix | NO |
| STOHEI-1 | 41.3517855 | -72.1599865 | 3/9/2020 | 0.25 | 0.04 | 198.4 | 0.09 | 6.7 | 0 | < 10 | Phoenix | NO |
| STOHEI-2 | 41.3519492 | -72.1609592 | 4/1/2020 | 0.5 | 0.01 | 101 | 0.048 | 9.6 | 0.25 | < 10 | Phoenix | YES |
| STOHEI-3 | 41.3505843 | -72.1595844 | 4/1/2020 | 0 | 0.01 | 222 | 0.106 | 10.7 | 0.25 | < 10 | Phoenix | NO |
| STOHEI-4 | 41.3500931 | -72.1590696 | 3/9/2020 | 0 | 0.22 | 279.9 | 0.13 | 7.4 | 0 | < 10 | Phoenix | NO |
| SUSA-1 | 41.3199053 | -72.1254505 | 5/12/2020 | 0.25 | 0.04 | 69 | 0.0323 | 13.5 | 0.25 | 10 | Phoenix | NO |
| SUSA-2 | 41.3191034 | -72.1253908 | 5/5/2020 | 0.25 | 0.16 | 86.6 | 0.0404 | 11.1 | 0.25 | < 10 | Phoenix | NO |
| SUSA-6 | 41.3157063 | -72.1251014 | 5/5/2020 | 0.25 | 0.05 | 130 | 0.0615 | 14.2 | 0.25 | < 10 | Phoenix | NO |
| TOTO-1 | 41.3901968 | -72.1115598 | 10/25/2019 | 0.25 | 0.01 | 59 | 0.03 | 24.04 | 0.5 | 10 | Phoenix | NO |
| TWINHA-1 | 41.366985 | -72.132366 | 3/9/2020 | 0 | 0 | 404.9 | 0.19 | 6.7 | 0.25 | < 10 | Phoenix | NO |
| TWINLA-1 | 41.390183 | -72.141697 | 1/15/2020 | 0.25 | 0 | 78.1 | 0.037 | 10.3 | 0.25 | < 10 | Phoenix | NO |
| TWINLA-2 | 41.387082 | -72.1361025 | 6/18/2018 | 0.25 | 0.51 | 190 | 0.09 | 23.69 | 0 | < 10 | Phoenix | NO |
| TWINLA-3 | 41.38603 | -72.137506 | 1/3/2020 | 0 | 0.02 | 118 | 0.089 | 2.8 | 0.25 | < 10 | Phoenix | NO |
| VILL-1 | 41.3320006 | -72.1340978 | 3/10/2020 | 0.25 | 0 | 305 | 0.148 | 7.3 | 0.75 | < 10 | Phoenix | NO |
| VILL-2 | 41.3320006 | -72.1340979 | 1/29/2020 | 3 | 0 | 243 | 0.116 | 14 | 0.25 | < 10 | Phoenix | NO |
| WESTW-1 | 41.3104625 | -72.1243861 | 8/24/2018 | 0 | 0.06 | 537 | 0.26 | 27.5 | 0.25 | 84 | Phoenix | NO |
| WINRID-1 | 41.3563186 | -72.1307051 | 4/1/2020 | 0.5 | 0.52 | 328 | 0.158 | 11.8 | 0.25 | 20 | Phoenix | YES |

Table 2.1b - Class SA & SB Impaired Waterbody Samples

| Outfall ID | Latitude | Longitude | Sample Date | Outfall Turbidity (NTU) | Turbidity Upstream (NTU) | Enterococcus (col/100mL) | Nitrogen (mg/L) | Phosphorous (mg/L) | Lab | Investigation Required |
|------------|-------------|-------------|-------------|-------------------------|--------------------------|--------------------------|-----------------|--------------------|---------|------------------------|
| 4TH-1 | 41.326394 | -72.175706 | 4/25/2019 | 1.09 | 0 | < 10 | 1.31 | 0.056 | Phoenix | NO |
| ALEW-1 | 41.31653 | -72.1034217 | 10/25/2019 | n/a | n/a | 51 | 2.41 | 0.086 | Phoenix | NO |
| BALD-1 | 41.336172 | -72.144587 | 1/29/2020 | n/a | n/a | < 10 | n/a | n/a | Phoenix | NO |
| EWHARF-1 | 41.327666 | -72.1740938 | 4/25/2019 | 0.02 | 0 | < 10 | 4.68 | 10 | Phoenix | YES |
| JORCIR-2 | 41.316541 | -72.151863 | 5/5/2020 | n/a | n/a | 496 | n/a | n/a | Phoenix | NO |
| NIARIV-1 | 41.35634543 | -72.1760020 | 4/1/2020 | 0.84 | 0.86 | < 10 | 2.93 | < 0.01 | Phoenix | YES |
| NIARIV-2 | 41.3532664 | -72.1762042 | 4/25/2019 | 0.22 | 0.3 | < 10 | 0.46 | 0.039 | Phoenix | NO |
| NIARIV-8 | 41.3284041 | -72.1740437 | 2/5/2019 | 2.81 | 2.75 | 107 | 2.63 | 0.252 | Phoenix | YES |
| OIL-1 | 41.3699747 | -72.1922504 | 10/25/2019 | 4.04 | 3.1 | 73 | 0.77 | 0.032 | Phoenix | NO |
| OLDNOR-3 | 41.4031439 | -72.112051 | 8/24/2018 | n/a | n/a | 173 | 1.5 | 0.105 | Phoenix | NO |
| SHORD-3S | 41.3175383 | -72.1472038 | 10/24/2019 | n/a | n/a | 30 | n/a | n/a | Phoenix | NO |
| WINDW-3 | 41.3131931 | -72.1603927 | 10/25/2019 | n/a | n/a | < 10 | n/a | n/a | Phoenix | NO |

Table 2.1c - Class A & B Non-Impaired Waterbody Samples

| Outfall ID | Latitude | Longitude | Sample Date | E. Coli (col/100mL) | Lab | Investigation Required |
|------------|------------|-------------|-------------|---------------------|---------|------------------------|
| TANGLE-2 | 41.4052925 | -72.1158648 | 6/18/2018 | 598 | Phoenix | YES |

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 |
|---|-------------|---------|----------|--------------|----------|-------------------------|-------------|------------|----------------------|
| It is anticipated that this will be initiated during 2021 | | | | | | | | | |

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

3.1 System Vulnerability Factor Summary

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

| Outfall ID | Receiving Water | System Vulnerability Factors |
|------------|--|---|
| CHAP-1 | Thames River Basin | Sanitary and Storm Drain Infrastructure >40 years Old |
| EWHARF-1 | LIS EB Inner - Niantic River(mouth), Niantic | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| FULM-2 | Niantic River Basin | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| JORCIR-1 | LIS EB Inner - Jordan Cove, Waterford | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| NIARIV-5 | LIS EB Inner - Niantic River(mouth), Niantic | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| NIARIV-6 | LIS EB Inner - Niantic River(mouth), Niantic | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| NIARIV-8 | LIS EB Inner - Niantic River(mouth), Niantic | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| OIL-1 | LIS EB Inner - Niantic River(mouth), Niantic | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| OLDNOR-3 | LIS EB Inner – Thames River (middle) | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| OSWE-2 | LIS EB Inner - Niantic River(mouth), Niantic | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| SHORD-3 | Southeast Shoreline Basin | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| VILL-2 | Southeast Shoreline Basin | Septic with Poor Soils or Water Table Separation |
| WINT-1 | LIS EB Inner – Thames River (middle) | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |
| WINT-2 | LIS EB Inner – Thames River (middle) | Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation |

Where SVFs are:

- History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
- Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
- Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
- Common or twin-invert manholes serving storm and sanitary sewer alignments.
- Common trench construction serving both storm and sanitary sewer alignments.
- Crossings of storm and sanitary sewer alignments.
- Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
- 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.
- Areas formerly served by combined sewer systems.
- Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
- 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).
- 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 |
|---|-------------------------|---|---------|----------|-------------|
| It is anticipated that this will be initiated during 2021 | | | | | |

3.3 Wet weather investigation outfall sampling data

| Outfall ID | Sample date | Ammonia | Chlorine | Surfactants |
|---|-------------|---------|----------|-------------|
| It is anticipated that this will be initiated during 2021 | | | | |

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 |
|---|-----------------|-----------------------|---------------------|-------------------|---------------------|----------------------------------|----------------------------------|
| It is anticipated that this will be initiated during 2021 | | | | | | | |

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: Robert J. Brule First Selectman | Print name: T.J. Therriault, EIT, CDT ANCHOR a Barton & Loguidice company |
| Signature / Date:  3/25/2021 | Signature / Date:  3/25/2021 |
| Email: firstsel@waterfordct.org | Email: tjt@bartonandloguidice.com |

| Catchment ID | Receiving Water | Wet Sampling Results Indicate Likely Illicit Discharge? ¹ | Dry Screening Results Indicate Likely Illicit Discharge? ^{1a} | Discharging to Area of Concern to Public Health? ² | Frequency of Past Discharge Complaints | Receiving Water Quality ³ | Density of Generating Sites ⁴ | Age of Development/ Infrastructure ⁵ | Historic Combined Sewers or Septic? ⁶ | Aging Septic? ⁷ | Culverted Streams? ⁸ | Additional Characteristics | Sample Score | Total Score | Priority Ranking |
|---------------------|--|---|---|---|--|--|--|---|---|---------------------------------|--------------------------------------|-------------------------------|-----------------|----------------|---------------------|
| New Catchment ID | Information Source | Catchment inspections and sample results | Catchment inspections and sample results | GIS Maps | Municipal Staff | Impaired Waters List | Land Use/GIS Maps, Aerial Photography | Land Use Information, Visual Observation | Municipal Staff, GIS Maps | Land Use, Municipal Staff | GIS and Stormwater system Maps | Other | | | |
| | See Note | Score is determined using an extrapolated formula based on the results | | Yes = 3 No = 0 | Frequent = 3 Occasional = 2 None = 0 | Poor = 3 Fair = 2 Good = 0 | High = 3 Medium = 2 Low = 1 | High = 3 Medium = 2 Low = 1 | Yes = 3 No = 0 | Yes = 3 No = 0 | Yes = 3 No = 0 | TBD | | | |
| 2ND-1 | LIS EB Inner - Niantic River(mouth), Niantic | 0 | 0 | 3 | | 3 | | 3 | | | 0 | | 0 | 9 | Low |
| 4TH-1 | LIS EB Inner - Niantic River(mouth), Niantic | 8 | 3 | 3 | | 3 | | 3 | | | 0 | | 11 | 20 | High |
| ALEW-1 | LIS EB Inner - Alewife Cove, Waterford/New London | 0 | 8 | 0 | | 3 | | 3 | | | 0 | | 8 | 14 | High |
| ALMO-1 | Jordan Brook Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| ARROW-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| AVERY-1 | Jordan Brook Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| AVERY-2 | Jordan Brook Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| AVERY-3 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BALD-1 | LIS EB Inner – Jordan Cove Waterford | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| BALD-2 | LIS EB Inner – Jordan Cove Waterford | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| BEACH-1 | LIS EB Shore – Outer Jordan Cove Waterford | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| BEECH-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| BEECH-2 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| BEECH-3 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| BLN-1 | Jordan Brook Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| BLOOM-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BLOOM-2 | Hunts Brook (Waterford)-02 | 0 | 0 | 0 | | 2 | | 3 | | | 0 | | 0 | 5 | Low |
| BLOOM-3 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BOLL-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BRAM-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BRAM-2 | Hunts Brook Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| BRIAR-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BROOK-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BURL-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BUTLER-1 | Polly Brook | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| BUTLER-2 | Oil Mill Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CASE-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CHAP-1 | Thames River Basin | 0 | 4 | 0 | | 0 | | 3 | | | 0 | | 4 | 7 | High |
| CHAP-3 | Lake Brandegee | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| CHAP-5 | Lake Brandegee | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CIRC-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CLARLN-1 | Fenger Brook (Waterford)-01 | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| CLARLN-2 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CLARPL-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| COLL-1 | Thames River Basin | 0 | 13 | 0 | | 0 | | 3 | | | 0 | | 13 | 16 | High |
| COLO-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| COLO-2 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| COUCLU-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CROSDR-1 | Jordan Mill Pond | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CROSRD-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CROSRD-2 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CROSRD-3 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CROSRD-4 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CROSRD-5 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CROSRD-6 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| CROYD-1 | Niantic River Basin | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| DANIEL-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| DAVID-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| DEVO-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| DIMM-1 | Southeast Shoreline Basin | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| DIVI-1 | LIS EB Inner - Jordan Cove, Waterford | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| DOYLE-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| EAST-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ELAKE-1 | Lake Brandegee | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| EVHARF-1 | LIS EB Inner - Niantic River(mouth), Niantic | 13 | 11 | 0 | | 3 | | 3 | | | 0 | | 24 | 30 | High |
| FAIR-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| FITZ-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| FITZ-2 | Church Brook | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| FOG-1 | Perry Pond | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| FORE-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| FULM-1E | Niantic River Basin | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| FULM-2 | Niantic River Basin | 0 | 3 | 0 | | 0 | | 3 | | | 0 | | 3 | 6 | High |
| GIOV-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| GLEN-1 | LIS EB Inner - Alewife Cove, Waterford/New London | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| GOUN-1 | Southeast Shoreline Basin | 0 | 1 | 0 | | 0 | | 2 | | | 0 | | 1 | 3 | Low |
| GRAH-1 | Jordan Brook | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| HAMA-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| HICK-1 | Thames River Basin | 0 | 3 | 0 | | 0 | | 3 | | | 0 | | 3 | 6 | Low |
| HICK-2 | Thames River Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| HIGRID-1 | Niantic River Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| HIGRID-2 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| HILL-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| INA-1 | Niantic River Basin | 0 | 2 | 0 | | 0 | | 2 | | | 0 | | 2 | 4 | High |
| INDUS-1 | Oil Mill Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| JORCIR-1 | LIS EB Inner - Jordan Cove, Waterford | 5 | 0 | 0 | | 3 | | 3 | | | 0 | | 5 | 11 | High |
| JORCIR-2 | LIS EB Inner - Jordan Cove, Waterford | 0 | 9 | 0 | | 3 | | 3 | | | 0 | | 9 | 15 | High |
| JORRD-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| JORRD-2 | LIS EB Inner – Jordan Cove Waterford | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| JORTER-1 | Jordan Brook | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| JOSA-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| KENY-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| KENY-2 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| KINGFI-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| KINGFI-2 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| KINGFI-3 | Nevins Brook | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| LAMP-1 | LIS EB Inner – Jordan Cove Waterford | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| LAUCRE-1 | Southeast Shoreline Basin | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| LAUCRE-2 | Southeast Shoreline Basin | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| LINC-1 | LIS EB Inner – Jordan Cove Waterford | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| LIND-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| LLOYD-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| LOCU-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| LOGHIL-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| LONG-1 | Jordan Brook Basin | 0 | 3 | 0 | | 0 | | 3 | | | 0 | | 3 | 6 | Low |
| MAGO-1 | LIS EB Inner - Niantic River(mouth), Niantic | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| MAGPOI-1 | LIS EB Shore – Thames River Mouth (West) Waterford | 0 | 0 | 0 | | 2 | | 3 | | | 0 | | 0 | 5 | Low |
| MAPL-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MARBUT-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MARY-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MAYF-1 | Southeast Shoreline Basin | 0 | 5 | 0 | | 0 | | 3 | | | 0 | | 5 | 8 | Low |
| MEAD-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MELA-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| MILLW-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MILT-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MINER-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MINER-2 | Southeast Shoreline Basin | 0 | 0 | 3 | | 0 | | 3 | | | 0 | | 0 | 6 | Low |
| MONR-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MULHIL-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MULHIL-2 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MULHIL-3 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| MYRO-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| NEWSHO-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| NIARIV-1 | LIS EB Inner - Niantic River(mouth), Niantic | 1 | 12 | 0 | | 3 | | 3 | | | 0 | | 13 | 19 | High |
| NIARIV-2 | LIS EB Inner - Niantic River(mouth), Niantic | 3 | 1 | 0 | | 3 | | 3 | | | 0 | | 4 | 10 | High |
| NIARIV-3 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| NIARIV-4 | LIS EB Inner - Niantic River(mouth), Niantic | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| NIARIV-5 | LIS EB Inner - Niantic River(mouth), Niantic | 3 | 0 | 0 | | 3 | | 3 | | | 0 | | 3 | 9 | Low |
| NIARIV-6 | LIS EB Inner - Niantic River(mouth), Niantic | 3 | 0 | 0 | | 3 | | 3 | | | 0 | | 3 | 9 | Low |
| NIARIV-7 | LIS EB Inner - Niantic River(mouth), | | | | | | | | | | | | | | |

| Catchment ID | Receiving Water | Wet Sampling Results Indicate Likely Illicit Discharge? ¹ | Dry Screening Results Indicate Likely Illicit Discharge? ^{1a} | Discharging to Area of Concern to Public Health? ² | Frequency of Past Discharge Complaints | Receiving Water Quality ³ | Density of Generating Sites ⁴ | Age of Development/ Infrastructure ⁵ | Historic Combined Sewers or Septic? ⁶ | Aging Septic? ⁷ | Culverted Streams? ⁸ | Additional Characteristics | Sample Score | Total Score | Priority Ranking |
|---------------------|---|---|---|---|--|--|--|---|---|---------------------------------|--------------------------------------|-------------------------------|-----------------|----------------|---------------------|
| New Catchment ID | Information Source | Catchment inspections and sample results | Catchment inspections and sample results | GIS Maps | Municipal Staff | Impaired Waters List | Land Use/GIS Maps, Aerial Photography | Land Use Information, Visual Observation | Municipal Staff, GIS Maps | Land Use, Municipal Staff | GIS and Stormwater system Maps | Other | | | |
| | See Note | Score is determined using an extrapolated formula based on the results | | Yes = 3 No = 0 | Frequent = 3 Occasional = 2 None = 0 | Poor = 3 Fair = 2 Good = 0 | High = 3 Medium = 2 Low = 1 | High = 3 Medium = 2 Low = 1 | Yes = 3 No = 0 | Yes = 3 No = 0 | Yes = 3 No = 0 | TBD | | | |
| OLDBAR-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OLDBAR-2 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OLDCOL-1 | Sandy Brook | 0 | 4 | 0 | | 0 | | 3 | | | 0 | | 4 | 7 | Low |
| OLDMIL-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OLDMIL-2 | Hunts Brook (Waterford)-01 | 0 | 0 | 0 | | 2 | | 3 | | | 0 | | 0 | 5 | Low |
| OLDNOR-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OLDNOR-2 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OLDNOR-3 | LIS EB Inner – Thames River (middle) | 8 | 10 | 0 | | 2 | | 3 | | | 0 | | 18 | 23 | High |
| OLDNOR-4 | LIS EB Inner – Thames River (middle) | 0 | 0 | 0 | | 2 | | 3 | | | 0 | | 0 | 5 | Low |
| OLDNOR-5 | Hunts Brook (Waterford)-01 | 0 | 0 | 0 | | 2 | | 3 | | | 0 | | 0 | 5 | Low |
| OLDNOR-6 | Church Brook | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OLDNOR-7 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OLDNOR-8 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OSWE-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OSWE-3 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OSWE-4 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| OSWE-5 | LIS EB Inner – Niantic River (mouth) Niantic | 1 | 0 | 0 | | 3 | | 3 | | | 0 | | 1 | 7 | Low |
| OSWE-6 | Stony Brook (Waterford)-01 | 0 | 0 | 0 | | 2 | | 3 | | | 0 | | 0 | 5 | Low |
| OSWE-7 | Stony Brook (Waterford)-02 | 0 | 0 | 0 | | 2 | | 3 | | | 0 | | 0 | 5 | Low |
| OSWE-8 | LIS EB Inner - Niantic River (mouth), Niantic | 0 | 0 | 3 | | 3 | | 3 | | | 0 | | 0 | 9 | Low |
| PADG-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| PALM-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| PARK-1 | LIS EB Inner - Niantic River(mouth), Niantic | 4 | 0 | 0 | | 3 | | 3 | | | 0 | | 4 | 10 | High |
| PARK-2 | LIS EB Inner – Niantic River (mouth) Niantic | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| PARKN-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| PENN-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| PEPP-1 | Southeast Shoreline Basin | 0 | 1 | 0 | | 0 | | 2 | | | 0 | | 1 | 3 | Low |
| PEPP-2 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| PERFAR-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 1 | | | 0 | | 0 | 1 | Low |
| PILG-1 | Thames River Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| PINE-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| POND-1 | Green Swamp Brook | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| RAIN-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| RICGRO-1 | LIS EB Inner – Thames River (middle) | 0 | 0 | 0 | | 2 | | 3 | | | 0 | | 0 | 5 | Low |
| RIDG-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| RIDG-2 | LIS EB Inner – Alewife Cove | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| RIVSI-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| RIVSI-2 | LIS EB Inner - Niantic River(mouth), Niantic | 5 | 0 | 0 | | 3 | | 3 | | | 0 | | 5 | 11 | High |
| ROBHIL-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROBHIL-2 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROCRID-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROPFER-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROPFER-2 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROPFER-3 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROPFER-5 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROSELE-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROSEMA-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| ROSEMA-2 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SAVI-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SCOCAP-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SCOCAP-2 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SEABRE-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SEAMEA-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SEAMEA-2 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SEATER-1 | Niantic River Basin | 0 | 1 | 0 | | 0 | | 1 | | | 0 | | 1 | 2 | Low |
| SEATER-2 | Niantic River Basin | 0 | 2 | 0 | | 0 | | 1 | | | 0 | | 2 | 3 | Low |
| SHAW-1 | LIS EB Inner - Niantic River(mouth), Niantic | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| SHODR-1 | LIS EB Inner - Alewife Cove, Waterford/New London | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| SHODR-2 | LIS EB Inner - Alewife Cove, Waterford/New London | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| SHODR-3 | LIS EB Inner - Alewife Cove, Waterford/New London | 0 | 0 | 0 | | 3 | | 3 | | | 3 | | 0 | 9 | Low |
| SHORD-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SHORD-2 | Jordan Brook Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| SHORD-3S | Southeast Shoreline Basin | 5 | 3 | 0 | | 0 | | 3 | | | 3 | | 8 | 14 | High |
| SHORD-4 | Southeast Shoreline Basin | 0 | 3 | 0 | | 0 | | 3 | | | 0 | | 3 | 6 | Low |
| SHORD-6 | Southeast Shoreline Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| SHORD-7 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SNOW-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SOLJ-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SOLJ-2 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SPIN-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| STAN-1 | LIS EB Inner - Niantic River(mouth), Niantic | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| STOHEI-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| STOHEI-2 | Jordan Brook Basin | 0 | 2 | 0 | | 0 | | 2 | | | 0 | | 2 | 4 | High |
| STOHEI-3 | Jordan Brook Basin | 0 | 1 | 0 | | 0 | | 2 | | | 0 | | 1 | 3 | Low |
| STOHEI-4 | Jordan Brook Basin | 0 | 2 | 0 | | 0 | | 2 | | | 0 | | 2 | 4 | Low |
| STONE-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SUNS-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SUSA-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SUSA-2 | Southeast Shoreline Basin | 0 | 3 | 0 | | 0 | | 3 | | | 0 | | 3 | 6 | Low |
| SUSA-3 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SUSA-5 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| SUSA-6 | Southeast Shoreline Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| TANGLE-1 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| TANGLE-2 | Hunts Brook Basin | 0 | 4 | 0 | | 0 | | 3 | | | 0 | | 4 | 7 | Low |
| THAM-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 1 | | | 0 | | 0 | 1 | Low |
| THAM-2 | Thames River Basin | 0 | 0 | 0 | | 0 | | 1 | | | 0 | | 0 | 1 | Low |
| THAM-3 | Thames River Basin | 0 | 0 | 0 | | 0 | | 1 | | | 0 | | 0 | 1 | Low |
| THAM-4 | LIS EB Inner – Thames River (middle) | 0 | 0 | 0 | | 2 | | 1 | | | 0 | | 0 | 3 | Low |
| TIFF-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| TOTO-1 | Thames River Basin | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| TOTO-2 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| TRUM-2 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| TWINHA-1 | Jordan Brook Basin | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| TWINLA-1 | Thames River Basin | 0 | 1 | 0 | | 0 | | 3 | | | 0 | | 1 | 4 | Low |
| TWINLA-2 | Thames River Basin | 0 | 3 | 0 | | 0 | | 3 | | | 0 | | 3 | 6 | Low |
| TWINLA-3 | Thames River Basin | 0 | 2 | 0 | | 0 | | 3 | | | 0 | | 2 | 5 | Low |
| TWINLA-4 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| UPRBAR-1 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| VALE-1 | Niantic River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| VALLEY-1 | LIS EB Inner - Jordan Cove, Waterford | 0 | 0 | 0 | | 3 | | 3 | | | 0 | | 0 | 6 | Low |
| VAUX-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| VAUX-2 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| VAUX-3 | Hunts Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| VAUX-4 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| VAUX-6 | Thames River Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| VAUX-7 | Thames River Basin | 0 | 3 | 0 | | 0 | | 3 | | | 0 | | 3 | 6 | Low |
| VILL-1 | Southeast Shoreline Basin | 0 | 2 | 0 | | 0 | | 2 | | | 0 | | 2 | 4 | Low |
| VILL-2 | Southeast Shoreline Basin | 0 | 3 | 0 | | 0 | | 2 | | | 0 | | 3 | 5 | Low |
| WALL-1 | Jordan Brook Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| WESTW-1 | Southeast Shoreline Basin | 0 | 10 | 0 | | 0 | | 3 | | | 0 | | 10 | 13 | High |
| WESTW-2 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| WESTW-3 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| WESTW-4 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| WIEM-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| WILL-1 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| WILL-2 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 3 | | | 0 | | 0 | 3 | Low |
| WINDW-1 | LIS EB Inner - Jordan Cove, Waterford | 8 | 3 | 3 | | 3 | | 2 | | | 0 | | 11 | 19 | High |
| WINDW-2 | Southeast Shoreline Basin | 0 | 0 | 0 | | 0 | | 2 | | | 0 | | 0 | 2 | Low |
| WINDW-3 | LIS | | | | | | | | | | | | | | |

| Catchment ID | Receiving Water | Wet Sampling Results Indicate Likely Illicit Discharge? ¹ | Dry Screening Results Indicate Likely Illicit Discharge? ^{1a} | Discharging to Area of Concern to Public Health? ² | Frequency of Past Discharge Complaints | Receiving Water Quality ³ | Density of Generating Sites ⁴ | Age of Development/ Infrastructure ⁵ | Historic Combined Sewers or Septic? ⁶ | Aging Septic? ⁷ | Culverted Streams? ⁸ | Additional Characteristics | Sample Score | Total Score | Priority Ranking |
|------------------|--------------------|--|--|---|--|--------------------------------------|--|---|--|----------------------------|---------------------------------|----------------------------|--------------|-------------|------------------|
| New Catchment ID | Information Source | Catchment inspections and sample results | Catchment inspections and sample results | GIS Maps | Municipal Staff | Impaired Waters List | Land Use/GIS Maps, Aerial Photography | Land Use Information, Visual Observation | Municipal Staff, GIS Maps | Land Use, Municipal Staff | GIS and Stormwater system Maps | Other | | | |
| | See Note | Score is determined using an extrapolated formula based on the results | | Yes = 3 No = 0 | Frequent = 3 Occasional = 2 None = 0 | Poor = 3 Fair = 2 Good = 0 | High = 3 Medium = 2 Low = 1 | High = 3 Medium = 2 Low = 1 | Yes = 3 No = 0 | Yes = 3 No = 0 | Yes = 3 No = 0 | TBD | | | |

Scoring Criteria:

If there's no waterbody feature identified the receiving body source will be the name of the subregional basin the outfall resides in

¹ Previous wet weather screening results indicate impacts to impaired waters including:

- Total Nitrogen >2.5 mg/L, Total Phosphorous >0.3 mg/L,
- E. Coli >235col/100 ml for swimming areas and >410 col/100 ml for all others or,
- Total Coliform >500 col/100 ml, or Fecal coliform >31 col/100ml for Class SA and >260 Col/100ml for Class SB, or
- Enterococci >104 col/100ml for swimming areas and >500 col/100ml for all others, or
- Turbidity at outfall is more than 5 NTU greater than the in-stream sample.

^{1a} Previous dry weather screening results indicate likely sewer input if any of the following are true:

- Olfactory or visual evidence of sewage,
- Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and bacteria levels greater than the water quality criteria applicable to the receiving water, or
- Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and detectable levels of chlorine

² Catchments that discharge to or in the vicinity of any of the following areas: public beaches, recreational areas, drinking water supplies, or shellfish beds

³ Receiving water quality based on latest version of State of Connecticut Integrated Water Quality Report.

- Poor = Waters with approved TMDLs (Category 4a Waters) where illicit discharges have the potential to contain the pollutant identified as the cause of the impairment
- Fair = Water quality limited waterbodies that receive a discharge from the MS4 (Category 5 Waters)
- Good = No water quality impairments

⁴ Generating sites are institutional, municipal, commercial, or industrial sites with a potential to contribute to illicit discharges (e.g., car dealers, car washes, gas stations, garden centers, industrial manufacturing, etc.)

⁵ Age of development and infrastructure:

- High = Industrial areas greater than 40 years old and areas where the sanitary sewer system is more than 40 years old
- Medium = Developments 20-40 years old
- Low = Developments less than 20 years old

⁶ Areas once served by combined sewers and but have been separated, or areas once served by septic systems but have been converted to sanitary sewers.

⁷ Aging septic systems are septic systems 30 years or older in residential areas.

⁸ Any river or stream that is culverted for distance greater than a simple roadway crossing.