



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

MS4 Annual Report Transmittal Form

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

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

| CPPU USE ONLY | |
|------------------------------------|-------|
| App #: | _____ |
| Doc #: | _____ |
| Check #: | _____ |
| Program: Stormwater Permits | |

Part I: Annual Report General Information

| | |
|---|----------------|
| 1. Reporting Period (Calendar Year): <u>January 1, 2022-December 31, 2022</u> | |
| 2. Provide the registration number for the existing general permit registration: <u>GSM000091</u> | |
| 3. Registrant Type (check one): | Fees |
| <input type="checkbox"/> state institution/agency | \$375.00 [713] |
| <input type="checkbox"/> federal institution/agency | \$375.00 [713] |
| <input checked="" type="checkbox"/> municipality | \$187.50 [713] |
| 4. Municipality name or Municipality name where institution is located: <u>Town of Canton</u> | |
| The annual report will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection (DEEP) or by such other method as the commissioner may allow. | |

Part II: Registrant Information

| | |
|--|---|
| 1. Registrant (Name of Municipality or State or Federal Institution/Agency): <u>Town of Canton</u> | |
| Mailing Address: <u>50 River Road</u> | |
| City/Town: <u>Collinsville</u> | State: <u>CT</u> Zip Code: <u>06022</u> |
| Business Phone: <u>860-658-3200</u> | ext.: |
| Contact Person: <u>Robert Martin</u> | Phone: <u>860-693-7863</u> ext. |
| *E-mail: <u>rmartin@TownofCantonCT.org</u> | |
| *By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes. | |

Part II: Registrant Information (continued)

2. Billing contact, if different than the registrant.

Name: **Atlas Technical Consultants, LLC**

Mailing Address: 290 Roberts Street

City/Town: East Hartford

State: CT Zip Code: 06108

Business Phone: 860-282-9924

ext.:

Contact Person: Kay Lehoux

Phone: 860-933-9657 ext.

E-mail: kay.lehoux@oneatlas.com

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

Name: **Atlas Technical Consultants, LLC**

Mailing Address: 290 Roberts Street

City/Town: East Hartford

State: CT Zip Code: 06108

Business Phone: 860-282-9924

ext.:

Contact Person: Kay Lehoux

Phone: 860-933-9657 ext.

*E-mail: kay.lehoux@oneatlas.com

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

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

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

Name: **Atlas Technical Consultants, LLC**

Mailing Address: 290 Roberts Street

City/Town: East Hartford

State: CT Zip Code: 06108

Business Phone: 860-282-9924

ext.:

Contact Person: Kay Lehoux

Phone: 860-933-9657 ext.


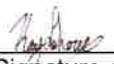
E-mail: kay.lehoux@oneatlas.com

Service Provided: **Annual Report Preparation**

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

Part III: Registrant Certification

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

| | |
|---|--|
| <p>"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.</p> <p>I certify that this annual report transmittal is on complete and accurate forms as prescribed by the commissioner without alteration of the text.</p> <p>I certify that the following public notice requirements have been met.</p> <p><input checked="" type="checkbox"/> Annual Report Availability: At least forty-five (45) days prior to submission of each Annual Report to DEEP, pursuant to Section 4(d)(3) of the MS4 General Permit, each permittee shall make available for public review and comment a draft copy of the complete Annual Report. Comments on the Annual Report may be made to the permittee and are <i>not</i> submitted to DEEP. Reasonable efforts to inform the public of this document shall be undertaken by the permittee. Such draft copies shall be made available electronically on the permittee's website for public inspection and copying, consistent with the federal and state Freedom of Information Acts, and shall be made available, at a minimum, at one of the following locations: the permittee's main office or other designated municipal or institution office, a local library or other central publicly available location. Following submission of the Annual Report to DEEP, a copy of the final report shall be made available for public inspection during regular business hours.</p> <p>I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.</p> <p>I also certify that the signature of the registrant, or a duly authorized representative, being submitted herewith complies with section 22a-430-3(b)(2)(B) of the Regulations of Connecticut State Agencies.</p> | |
|  <hr/> Signature of Chief Elected official or Principal Executive Officer | 4/4/2023 <hr/> Date |
| Robert Bessel <hr/> Printed Name of Chief Elected official or Principal Executive Officer | FIRST SELECTMAN <hr/> Title (if applicable) |
|  <hr/> Signature of Preparer (if different than above) | 4/3/2023 <hr/> Date |
| Kay Lehoux <hr/> Printed Name of Preparer | Environmental Compliance Manager-Atlas <hr/> Title (if applicable) |

- Note: Please submit
- 1) this completed Transmittal Form and the Fee to:
 CENTRAL PERMIT PROCESSING UNIT
 DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127
 - 2) a copy of this completed Transmittal Form and the Annual Report electronically to the following email address: DEEP.StormwaterStaff@ct.gov.

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

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



2022 MS4 ANNUAL REPORT

Town of Canton, Connecticut

MS4 General Permit
Town of Canton 2022 Annual Report
 Permit Number GSM 000091
 January 1, 2022 – December 31, 2022
 Primary MS4 Contact: Robert J. Martin, Director of Public Works
 860-693-7863, rmartin@townofcantonct.org

This report documents Canton’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 | Sources 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 | 1. <i>Virtual Film Festival</i> 2. <i>RBV Training</i> 3. <i>5th Annual WSFF</i> | 1. <i>Online</i> 2. <i>84 Cherry Brook Road</i> 3. <i>Collinsville Town Auditorium</i> | <i>Farmington River Watershed Association (FRWA)</i> | ~500 | <i>Provide access to stormwater literature.</i> | <i>FRWA</i> | |
| 1-2 Address education/outreach for pollutants of concern | 1. <i>The impact of impervious cover, septic systems, and fertilizer use was discussed in a brochure and distributed at the Canton Town Hall.</i> 2. <i>Earth Day Celebration</i> | 1. <i>Distribution of hardcopies</i> 2. <i>Not Applicable</i> | 1. <i>Brochures</i> 2. <i>Planting of elm tree.</i> | 1. ~25 1.10 | <i>Educate and provide pet waste and other waste management to the public.</i> | <i>Director of Public Works, Land Use, Farmington River Watershed Association</i> | <i>Refer to Attachment IV for a summary provided by the Farmington River Watershed Association of public education and</i> |

| | | | | | | | |
|---|---|---|--|------------|--|----------------------------------|--|
| | | | | | | | <i>outreach conducted in the Town.</i> |
| Additional BMP: 1-3 Hazardous Waste Collection | <i>In partnership with Farmington, Granby, and Simsbury. Collection days are provided per year.</i> | <i>Multiple websites. See "Additional Details".</i> | <i>Announcements through CTDEEP, Facebook, and Town website.</i> | ≥ 500 | <i>Educate and provide hazardous waste collections</i> | <i>Director of Public Works.</i> | |

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

- | |
|---|
| <ol style="list-style-type: none"> 1. Continue with Hazardous Waste collection days with the neighboring towns. 2. All of the above-mentioned activities (1-1, 1-2) are planned for 2023, with specific dates to be determined. |
|---|

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

2.1 BMP Summary

| BMP | Status (Complete, Ongoing, In Progress, or Not started) | 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') | Location Posted | Additional details |
|--|---|--|---|---|---|---|---|
| 2-1 Final Stormwater Management Plan publicly available | Completed | Not Applicable. | Provide public notice and access to the Town's Stormwater Management Plan. | Town Engineer/Town Planner | April 1, 2017 | Stormwater Management Plan | |
| 2-2 Comply with public notice requirements for Annual Reports (annually by 2/15) | Completed Annually | Public notice posted on Town Website. | Provide public notice and access to the MS4 Annual Report. | Town Engineer | Feb. 15, 2023 | Annual Reports | Previous Annual Reports were submitted by February 15 th . |
| Additional BMP: 2-3 Hazardous Waste Collection | Ongoing | In partnership with Farmington, Granby, and Simsbury. Collection days are provided per year. | Educate and provide hazardous waste collections | Department of Public Works. | Annually | Press Release DEEP | |
| Additional BMP: 2-4 Establish Stormwater Committee. | Ongoing throughout permit lifetime. | This committee meets frequently with Atlas (consultant) over stormwater management techniques, implementation, and BMPs. | Coordinate and implement the Stormwater Management Plan across departments and commissions. | Department of Public Works/Land Use Departments | Established June 2017-Ongoing. | Not Applicable | |
| Additional BMP: 2-5 General Public Involvement | Ongoing throughout permit lifetime. | River Cleanup | Clean-up Connecticut Rivers | FRWA | 2022 | Multiple locations | |

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

1. Annual Spring Clean-up Event
2. Earth Day Celebration
3. Brochures to be distributed on the Stormwater Retrofit Program.

3. Illicit Discharge Detection and Elimination (Section 6(a) (3) and Appendix B / page 22)

3.1 BMP Summary

| BMP | Status (Complete, Ongoing, In Progress, or Not started) | 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) | Complete | <i>Not Applicable</i> | <i>Develop written plan of IDDE program</i> | <i>Chief Administrative Officer/Town Engineer/Town Planner</i> | <i>October 24th, 2018</i> | <i>The Town completed a written IDDE Program, which can be located through the Town's website.</i> |
| 3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20) | Complete | <i>Atlas has completed mapping of all outfalls and priority area mapping. The Town, with the assistance of Atlas, will continue QA/QC processes of reviewing GIS systems and editing as necessary.</i> | <i>All outfalls mapped.</i> | <i>Town Engineer/Atlas</i> | <i>Fall 2021</i> | <i>Mapping and data will be continually maintained as outfalls are tested, repaired, etc.</i> |
| 3-3 Implement citizen reporting program (Ongoing) | Complete | <i>Citizen Reporting is maintained electronically by the Canton Town Planner.</i> | <i>Provide a reporting mechanism and log.</i> | <i>Chief Administrative Office, Town Engineer, Town Planner</i> | <i>Ongoing-started in Nov. 2018.</i> | <i>Citizens may report illicit discharges by contacting the Land Use Department or reporting dry weather discharges via the Q-Notify System.</i> |
| 3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19) | Complete | <i>The Town has written and adopted a Stormwater Connection Ordinance.</i> | <i>Establish legal authority to prohibit illicit discharges.</i> | <i>Chief Administrative Officer, Town Engineer, Town Planner.</i> | <i>October 24th, 2018</i> | <u>Stormwater Ordinance Connection</u> |
| 3-5 Develop record keeping system for IDDE tracking (Due 7/1/17) | Ongoing | <i>The Town continues to maintain a list of reports that include the IDDE.</i> | <i>Maintain list.</i> | <i>Chief Administrative Officer, Town Engineer, Town Planner</i> | <i>October 24th, 2018</i> | <i>Maintaining of records of reported IDDEs is maintained by the Town Department of Public Works.</i> |
| 3-6 Address IDDE in areas with pollutants of concern | Ongoing | <i>Dry Weather screening was conducted at 98 outfalls throughout the Town of Canton.</i> | <i>Wet weather testing and additional investigation as necessary.</i> | <i>Town Engineer, Atlas</i> | <i>Ongoing- Started in 2021</i> | <i>Atlas assists the Town with impaired outfall sampling and inspections. All outfalls to impaired waterbodies have been inspected and sampled. Dry weather</i> |

| | | | | | | |
|---|---------|---|--|--------------------------------|--------------------------|---|
| | | | | | | screenings are underway throughout the entirety of the Town. IDDEs area documented and investigated as needed, if observed during dry weather screenings. |
| Additional BMPs: 3-7 Consolidate IDDE Tracking Spreadsheets | Ongoing | Continuously working towards developing a master IDDE tracking spreadsheet. | Compile all IDDE tracking requirements into one spreadsheet. | Town Engineer, Town Planner | Ongoing- Started in 2021 | Tracking of reported IDDEs is maintained by the Town Department of Public Works |

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

1. Continue wet weather testing at outfalls to impaired waters
2. Continue follow-up dry weather screening/testing
3. Respond to any illicit discharge complaints
4. Ensure all employees involved in IDDE Program understand the logging process.

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 2021 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) |
|--|---------------------------------|-----------------------------------|-----------------------------|--|--|---|
| OF-105 | 4/13/2021 | Yes | Unknown | TBD | Pending SSOs investigation. Sampling data was indicative of elevated concentrations of bacteria; however, it is unclear whether the bacteria concentrations are indicative of a septic failure or natural background conditions. | Refer to Part II: Impaired Waters Investigation and Monitoring of this report. |
| OF-107 | 4/13/2021 | Yes | Unknown | None | Based on analytical results, this discharge is groundwater influence. | Refer to Part II: Impaired Waters Investigation and Monitoring of this report. |
| 50 Bristol Drive | 7/22/2021 | Unnamed Brook | Unknown | Breakout of septic system | Evaluation by FVHD showed a breakout of the septic system. A replacement 1,250 gallon septic tank and 538 sq.ft leach field was installed and approved by FVHD in October 2021. | None. |

| 2022 | | | | | | |
|--------------------|-----------|---------------|---------|---|---|-------|
| 35 Trailsend Drive | 4/8/2022 | Unnamed Brook | Unknown | The septic tank was reported in poor condition. | The septic system was evaluated by the FVHD, and a permit for tank replacement was granted. An engineering plan is shown for the installation of a new 1,000-gallon septic tank. | None. |
| 9 Noja Trail | 5/10/2022 | Unnamed Brook | Unknown | Out-of-level and cracked at outlet side. | A 1,250-gallon septic tank was installed, and the existing tank was abandoned. Other corrective measures were listed as the installation of a 6-hole D-Box. | None. |
| 21 Bristol Drive | 5/8/2022 | Unnamed Brook | Unknown | Not stated. | Installation of a new septic system, including sewer-piping, septic tank, and leaching area was completed for the real estate sale of the property. The original septic tank was reported as abandoned. | None. |
| 24 Bristol Drive | 6/10/2022 | None. | Unknown | Not stated. | An application for a site evaluation of the septic system was requested in May 2022. The site was evaluated, and the evaluation found that the system could be repaired; however, system failures were not listed. Recommendations listed included the proper abandonment of the old septic tank and other hollow structures, installation of a new septic tank with an outlet baffle filter, and to provide a total of 495 square feet of leaching area. | None. |
| 50 Bristol Drive | 7/22/2022 | None. | Unknown | Breakout | A site evaluation was completed due to septic breakout at this property (See 2021). Subsequently, a new septic tank was installed. The leaching system was found non-compliant relative to the MLSS requirements, however, an exception was granted, as it was unlikely to result in a health hazard. | 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 |
|--|--|--|---|----------------------------|
| 2021 Septic Failures | | | | |
| Farmington Valley Health District (FVHD) | 14 Sweetheart Mountain-Septic tank in poor condition | New tank installed | Unknown | FVHD |
| | 52 Country Lane-no failure | New tank & fields installed | None. | FVHD |
| | 12B Freedom-Truck damaged septic tank | New tank installed | Unknown | FVHD |
| | 32 E Mountain-Unknown nature | Site evaluation, and new tank installed | Unknown | FVHD |

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|---|---|---------|------|
| 13 Sweetheart Mountain-Pool installation | New tank installed | None. | FVHD |
| 17 Pond Rd.-Real Estate Inspection | New tank & fields installed | Unknown | FVHD |
| 19 Deer Run-House sale | New tank and fields installed | Unknown | FVHD |
| 57 Sterling-Addition | New building sewer line installed | Unknown | FVHD |
| 17 Mohawk-Deteriorated septic tank | New tank and d-box installed | Unknown | FVHD |
| 50 Bunker Hill-"old" | Site evaluation completed no repair work. | Unknown | FVHD |
| 23 Pine Acres-"leach field is full" | New tank and fields installed | Unknown | FVHD |
| 144 Indian Hill-fields failing | New tank and fields installed | Unknown | FVHD |
| 620 Albany-"tank needs replacement" | New tank installed | Unknown | FVHD |
| 6 Erickson-septic tank in poor condition | New tank installed | Unknown | FVHD |
| 111 Wright-tank collapse | New tank installed | Unknown | FVHD |
| 51 Breezy Hill-Addition request | No action | Unknown | FVHD |
| 8 Silver Mine Acres-septic tank in poor condition | New tank installed | Unknown | FVHD |
| 17 Woodland-tank in poor condition | New tank and d-box installed | Unknown | FVHD |
| 50 Bristol-"breakout" | PE required to design repair | Unknown | FVHD |
| 82 Washburn-new barn | Building sewer pipe installed | None. | FVHD |
| 25 Old Canton-failure | New tank and fields installed | Unknown | FVHD |
| 70 Trailsend-failure | New tank and fields installed | Unknown | FVHD |
| 11 Country-cracked tank | New tank installed | Unknown | FVHD |
| 50 Cherry Brook-tank in poor condition | New tank installed | Unknown | FVHD |
| 5 Uplands-tank in poor condition | New tank and d-box installed | Unknown | FVHD |
| 7 Woodridge Circle-failed inspection | New tank and fields installed | Unknown | FVHD |
| 6 West View-aged | New tank and fields installed | Unknown | FVHD |
| 21 Birch Knoll-addition | New building sewer line installed | Unknown | FVHD |
| 81 Morgan-failure | New fields installed | Unknown | FVHD |
| 139 Indian Hill-tank in poor condition | New tank and d-box installed | Unknown | FVHD |
| 10 Shagbark-septic tank in poor condition | New tank and d-box installed | Unknown | FVHD |
| 308 East Hill-leach fields wet | Site evaluation complete-no repair work | Unknown | FVHD |

| | | | | |
|--|---|---|---|------|
| | 30 Morgan-septic breakout | Effluent pipe and fields installed | Unknown | FVHD |
| | 5 Shagbark-system saturated | New tank and fields installed | Unknown | FVHD |
| | 9 Erickson-leaching fields not working | New fields installed | Unknown | FVHD |
| | 4 Noja-septic tank in poor condition | New tank installed | Unknown | FVHD |
| | 115 Indian Hill-clog in grey water | Pipe replaced | Unknown | FVHD |
| | 121 Indian Hill-needs new leach field | No action yet | Unknown | FVHD |
| | 50 Dry Bridge-old | Site evaluation completed-no repair work | Unknown | FVHD |
| | 41 Country-unknown | New tank installed | Unknown | FVHD |
| | 760 Cherry Brook-addition | New tank installed. | Unknown | FVHD |
| 2022 Septic Failures | | | | |
| Farmington Valley Health District (FVHD) | 35 Trailsend Drive- The septic tank was reported in poor condition. | The septic system was evaluated by the FVHD, and a permit for tank replacement was granted. An engineering plan is shown for the installation of a new 1,000-gallon septic tank. | Unnamed brook and wetlands area nearby with potential for impact. | FVHD |
| Farmington Valley Health District (FVHD) | 9 Noja Trail- Out-of-level and cracked at outlet side. | A 1,250-gallon septic tank was installed, and the existing tank was abandoned. Other corrective measures were listed as the installation of a 6-hole D-Box. | Unnamed brook and wetlands area susceptible to impact. | FVHD |
| Farmington Valley Health District (FVHD) | 21 Bristol Drive- Not stated. | Installation of a new septic system, including sewer-piping, septic tank, and leaching area was completed for the real estate sale of the property. The original septic tank was reported as abandoned. | Potential impact to unnamed brook. | FVHD |
| Farmington Valley Health District (FVHD) | 24 Bristol Drive-Not stated. | An application for a site evaluation of the septic system was requested in May 2022. The site was evaluated, and the evaluation found that the system could be repaired; however, system failures were not listed. Recommendations listed included the proper abandonment of the old septic tank and other hollow structures, installation of a new septic tank with an outlet baffle filter, and to provide a total of 495 square feet of leaching area. | None. | FVHD |
| Farmington Valley Health District (FVHD) | 50 Bristol Drive-Breakout | A site evaluation was completed due to septic breakout at this property. Subsequently, a new septic tank was installed. The leaching system was found non-compliant relative to the MLSS requirements, however, an exception was granted, as it was unlikely to result in a health hazard. | None. | FVHD |

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

Residents of the Town of Canton can report illicit discharges directly to the Land Use Department or through the Q-Notify System. Staff then perform investigations on the illicit discharges. Digital Records on the Town server are used for tracking illicit discharges. While illicit discharge reporting from the public has remained low, the current system in place is adequate to meet the requirements of the MS4 Permit. Illicit discharges relating to septic systems are reported/documentated by the Farmington Valley Health District (FVHD).

3.6 IDDE reporting metrics

| Metrics | |
|--|---------------|
| Estimated or actual number of MS4 outfalls | 225 (est.) |
| Estimated or actual number of interconnections | 11 (est.) |
| Outfall mapping complete | 95% (ongoing) |
| Interconnection mapping complete | 90% |
| System-wide mapping complete (detailed MS4 infrastructure) | 60% |
| Outfall assessment and priority ranking | 100% |
| Dry weather screening of all High and Low priority outfalls complete | 80% |
| Catchment investigations complete | 90% |
| Estimated percentage of MS4 catchment area investigated | 62% |

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).

Best Management Practice is provided to all DPW staff for new procedures, as determined by the Stormwater Committee, utilizing the Stormwater Management Plan and information provided by NEMO to train Town employees. Town employees are also trained on an annual basis by Atlas Technical Consultants, reviewing the Stormwater Management Plan, illicit discharge identification, and other applicable information of the MS4 GP.

4. Construction Site Runoff Control (Section 6(a) (4) / page 25)

4.1 BMP Summary

| BMP | Status (Complete, Ongoing, In Progress, or Not started) | 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) | Completed | <p><i>In early January 2022, the Town and Atlas met to discuss aspects of the MS4 Permit. The Town is continuing to research tools and options to enforce land use regulations or other legal authority of privately owned properties to meet the requirements of the MS4 Permit.</i></p> <p><i>The ZEO maintains records of identifiable complaints, inspections, and notices of violations served, orders issued, or any other actions taken in relation to Section 7.13 of the Zoning Regulations.</i></p> | Revise land-use regulations. | Town Planner, Zoning Enforcement Officer, Wetlands Agents | <p><i>The updated Zoning Regulations were adopted on April 2nd, 2014. These regulations incorporated a detailed Stormwater Management Plan Requirement, (Section 7.13 of the Town's Zoning Regulations), to address all new developments or other disturbances to an existing development that disturbs ten thousand square feet or more of an area exposed to rainfall.</i></p> <p><i>Enforcement under the Town's Zoning Regulation is as follows: "The ZEO is authorized to issue a stop work order, cease and desist order, cease and correct order, or any order to undertake specified actions if in his or her judgement the use of land, buildings and other structures, or the construction, reconstruction, enlargement, extension, moving or structural alteration of a building or other structure, are not being carried out in compliance with these regulations, or any permit or variance" (pp 230 of Canton Zoning Regulations, effective 2014, revised October 29, 2021) issued.</i></p> | Zoning Regulations |
| 4-2 Develop/Implement plan for interdepartmental coordination in site plan review | Completed-Ongoing for permit lifetime. | A Stormwater Management Plan is to be included as part of site plans for all applicable developments. All site plans are submitted to a commission for review. | Develop/implement plan for interdepartmental coordination in site plan | Town Engineer | Town municipal departments have coordinated since the beginning of the MS4 Permit in 2017. In 2019, the WPCF and DPW redeveloped their facilities in compliance with MS4 construction requirements, and retain stormwater drainage on-site. | Zoning Regulations: In 2019, the WPCF and DPW redeveloped their facilities in compliance with |

| | | | | | | |
|---|---|--|--|---|--|--|
| and approval (Ongoing) | | <i>According to these regulations, "Other technical and minor modifications may be approved jointly by the Zoning Enforcement Officer, Building Official and Fire Marshal, or with the consultation of other relevant Town Staff when proposed changes are limited to...drainage; grading; erosion and sedimentation controls..."(Zoning Regulations, effective 2014, revised October 29, 2021).</i> | <i>review and approval.</i> | | | <i>MS4 construction requirements and retain stormwater</i> |
| 4-3 Review site plans for stormwater quality concerns (Ongoing) | <i>Completed-Ongoing for permit lifetime.</i> | <i>The Town continues to utilize zoning regulations and processes as a way of reviewing site plans for stormwater quality concerns. This year, five (5) site plans were reviewed by the Town with applicable stormwater quality concerns.</i> | <i>Issue review comments, and review revised plans for compliance.</i> | <i>Zoning Enforcement Officer, Wetlands Agents, Town Engineer</i> | <i>Completed in June 2018. This process is continued to present.</i> | |
| 4-4 Conduct site inspections (Ongoing) | <i>Ongoing throughout permit lifetime.</i> | <i>Active sites are monitored throughout the year by the Zoning Enforcement Officer and/or Wetlands Agents.</i> | <i>Document Inspections and Actions</i> | <i>Zoning Enforcement Officer, Wetlands Agents</i> | <i>Completed in 2018-Continued throughout permit lifetime.</i> | |
| 4-5 Implement procedure to allow public comment on site development (Ongoing) | <i>Completed</i> | <i>The procedure of which allows for public comment on site development is as follows; dependent on zoning area type or regulations, a public hearing may be posted through newspaper or by public hearing signs. During this public hearing,</i> | <i>Provide an opportunity for public comment/inv olvement.</i> | <i>Town Planner</i> | <i>Completed under previous permit.</i> | <u>Zoning Regulations</u> |

| | | | | | | |
|--|------------------|---|---|-----------------------------------|--|--|
| | | <i>comments or concerns may be voiced on site development.</i> | | | | |
| 4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing) | <i>Completed</i> | <i>Compliance with the DEEP construction stormwater permit is required through the Town, and is a standard condition of local land use approval. The DEEP permitting requirements are supplied to applicants in a pre-empted application checklist.</i> | <i>Notify developers about DEEP permitting obligations.</i> | <i>Town Planner/Town Engineer</i> | <i>Completed-continued throughout permit lifetime.</i> | |

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

There are several sites with proposed improvements that will affect stormwater runoff in 2022. The Town will continue to utilize zoning regulations and inspections as a means to ensure BMPs are utilized by site developers.

5. Post-construction Stormwater Management (Section 6(a) (5) / page 27)

5.1 BMP Summary

| BMP | Status (Complete, Ongoing, In Progress, or Not started) | 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) | <i>Completed</i> | <i>All new site development or modification, or other disturbance to an existing development that disturbed 10,000 square feet or more of an area exposed to rainfall is required to maintain a Stormwater Management Plan.</i> | <i>Adopt BMPs for any activity, operation, or facility which may cause or contribute to the pollution or contamination of stormwater, the storm drain system, or waters of the U.S.</i> | <i>Town Planner</i> | <i>Completed</i> | |
| 5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22) | <i>Ongoing</i> | <i>Adopted Zoning Regulations and current Subdivision Regulations incorporate provisions for narrow travel-way widths, alternative cul-de-sac configurations, permeable pavers, and utilizing ditches for stormwater conveyance. These regulations also allow for the permanent reduction of required parking.</i> | <i>Enforce regulations and guidelines of LID and runoff reductions.</i> | <i>Town Planner</i> | <i>In progress- Started in 2021 and to be adopted 2022-2023.</i> | |
| 5-3 Identify retention and detention ponds in priority areas (Due 7/1/20) | <i>Ongoing</i> | <i>The Town is currently working towards compiling a complete list of retention and detention basins, as well as dry wells. Atlas will then convert this data into a GIS stormwater mapping software.</i> | <i>Compile a list and complete mapping of Town-owned detention basins.</i> | <i>Town Engineer/Director of Public Works</i> | <i>In Progress- Started 2021</i> | |
| 5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing) | <i>Ongoing</i> | <i>The Town is currently working with Atlas to develop and implement inspections of stormwater basins and treatment structures, and to perform maintenance as needed.</i> | <i>Annually inspect and maintain facilities.</i> | <i>Town Engineer/Director of Public Works</i> | <i>In progress- Started July 1st, 2019.</i> | |

| | | | | | | |
|--|---------------------------------------|--|---|---|-----------------------------------|--|
| 5-5 DCIA mapping (Due 7/1/20) | <i>Completed</i> | <i>DCIA for the Town was calculated with the assistance of Nathan L. Jacobson & Associates. Atlas has mapped the DCIA areas.</i> | <i>Provide an understanding of the Town's overall DCIA as related to the MS4 system.</i> | <i>Town Engineer, Director of Public Works, Town Planner, Atlas</i> | <i>Completed in December 2021</i> | |
| 5-6 Address post-construction issues in areas with pollutants of concern | <i>Ongoing through life of permit</i> | <i>It is planned to implement that in post-construction areas, if erosion or high accumulation of sedimentation are found during annual inspections conducted under the long-term post-construction maintenance plan, the Town will prioritize these areas for DCIA retrofit projects.</i> | <i>Address post-construction areas where erosion or high accumulation of sedimentation are found during annual inspections.</i> | <i>Town Engineer, Director of Public Works, Town Planner</i> | <i>Ongoing-Started in 2018</i> | <i>The Stormwater Retrofit Program was drafted in late 2021, and is continuously updated as information is gathered/retrofits are put in place. This Retrofit Program will help the Town address areas with pollutants of concern.</i> |

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

1. *Develop process for annual inspections of Post-Construction Stormwater Management activities.*
2. *Develop and implement the monitoring, cleaning, and repairing of settling/silt basins, catch basins, outfalls, swales, etc.*

5.3 Post-Construction Stormwater Management reporting metrics

For details on this requirement, visit <https://nemo.uconn.edu/ms4/tasks/post-construction.htm>. Scroll down to the DCIA section.

| Metrics | |
|---|-------------------|
| Baseline (2021) Directly Connected Impervious Area (DCIA) | 32.14 |
| DCIA disconnected (redevelopment plus retrofits) | TBD |
| Retrofit projects completed | TBD |
| DCIA disconnected | TBD |
| Estimated cost of retrofits | TBD |
| Detention or retention ponds identified | 7 /~7 total (TBD) |

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

The DCIA Mapping was conducted in substantial accordance with the methodologies presented in the October 25, 2017 UConn CLEAR Webinar, entitled "CT MS4 Mapping Details, Clarifications and Tools", the October 19, 2018 UConn CLEAR Workshop entitled "CT MS4 Mapping Workshop", as well as information contained in the EPA reference entitled "Estimating Change in Impervious Area (IA) and Directly Connected Impervious Area (DCIA) for Massachusetts Small MS4 Permit utilizing Sutherland equations".

The DCIA computations were prepared utilizing Connecticut Environmental Conditions Online MS4 base mapping prepared by UConn CLEAR.

Impaired waters were determined from the report entitled "2018 Integrated Water Quality Report", dated August 01, 2019, prepared by the State of Connecticut Department of Energy and Environmental Protection.

The method to determine the 2012 baseline DCIA was to first compile the CT DEEP drainage basin characteristics in a Microsoft Excel spreadsheet. Information on the Connecticut Environmental Conditions Online MS4 Mapping was used to determine the impervious area breakdown as Buildings, Roads, and Other. For CT DEEP drainage basins that fell in two (2) or more municipalities, the advanced mapping tab of Connecticut Environmental Conditions Online was used to delineate and determine the applicable town CT DEEP basin area. It was assumed that the entire drainage basin characteristics were directly proportional to the applicable town CT DEEP drainage basin area.

In that ConnDOT has a MS4 Stormwater Program which applies to state owned roads and facilities of which the town has no control over, it was decided that the impervious state road area would be determined and deducted from the total impervious road area for each CT DEEP drainage basin, as the impervious road areas associated with state highways and facilities constitutes a considerable portion of the total town impervious road area.

The ConnDOT state highway, parking lot, and facility impervious road areas were then determined for each CT DEEP drainage basin. The ConnDOT state highway, parking lot, and facility impervious road areas were then deducted from the total town impervious road area to determine a town-owned impervious road area for each CT DEEP drainage basin. Subsequent to the above deduction, the total impervious area in acres and percentage was then recomputed for each CT DEEP drainage basin.

The DCIA formula for each of four development types was then utilized to compute the DCIA. The impervious area in acres was assigned to each of the four Sutherland equations, which were modified for the northeastern United States. The Sutherland equation to be utilized was determined using the following methodology:

For impervious percentage less than 6%:

100% of the impervious area was assigned to the slight connectivity Sutherland Equation where $DCIA\% = 0.01 \cdot (IA\%)^{2.0}$

For an impervious area between 6% and 12 %:

50% of the area was assigned to the partial connectivity Sutherland Equation where $DCIA\% = 0.04 \cdot (IA\%)^{1.7}$

and

50% was assigned to the average connectivity Sutherland Equation where $DCIA\% = 0.10 \cdot (IA\%)^{1.5}$

For an impervious area between 12% and 18 %:

50% of the area was assigned to the average connectivity Sutherland Equation where $DCIA\% = 0.10 \cdot (IA\%)^{1.5}$

and

50% was assigned to the high connectivity Sutherland Equation where $DCIA\% = 0.40 \cdot (IA\%)^{1.2}$

For an impervious area of greater than 18 %:

100% of the area was assigned to the high connectivity Sutherland Equation where $DCIA\% = 0.40 \cdot (IA\%)^{1.2}$

The DCIA for each CT DEEP drainage basin was then summed to determine the entire town DCIA. Subsequent to completion of 2012 Baseline DCIA computations, UConn CLEAR Mapping, available on Connecticut Environmental Conditions Online (CT ECO), was revised to separate road impervious area into State Road Impervious Area (Acres) and Town Road Impervious Area (Acres).

The original 2012 Baseline DCIA computations were revised utilizing the UConn CLEAR State Road Impervious Area (Acres) and Town Road Impervious Area (Acres).

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

6.1 BMP Summary

| BMP | Status (Complete, Ongoing, In Progress, or Not started) | 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) | <i>Completed Annually</i> | <i>Meetings and correspondence were held over the course of the year with Town employees pertaining to the MS4 permit. During these meetings/correspondence, discussions were had on stormwater management procedures, spill controls, etc.</i> | <i>Eliminate non-stormwater discharges into the storm sewers.</i> | <i>Director of Public Works, Town Planner, Town Engineer, Fire Marshall</i> | <i>Completed Annually.</i> | <i>In April of 2022, Atlas completed a training of on the SWPPP for the Town DPW, as well as the MS4 Permit.</i> |
| 6-2 Implement MS4 property and operations maintenance (Ongoing) | <i>Ongoing through life of permit.</i> | <i>The Public Works maintains outdoor maintenance at the Town's parks, school grounds, and all other Town-owned land. The Highway Division manages roads, including maintenance, resurfacing, drainage repairs, signage, winter plowing, street sweeping, etc.</i> | <i>Eliminates/minimizes spills and/or pollutant releases to the environment and navigable waterways.</i> | <i>Director of Public Works</i> | <i>Ongoing-Started in 2018.</i> | <i>Several dog waste stations have been installed in parks, along trails, and public places throughout the Town. The Town maintenance staff regularly empties and maintains the pet waste cans. Signs related to pet waste and waterfowl have been erected in parks, playgrounds, and along trails.</i> |
| 6-3 Implement coordination with interconnected MS4s | <i>Ongoing</i> | <i>Atlas has assisted the Town in coordinating between the CTDOT and neighboring municipalities on interconnected MS4s. Currently, 11 interconnections with the CTDOT have been identified and mapped.</i> | <i>Update GIS system with interconnected locations.</i> | <i>Town Engineer/Atlas</i> | <i>Ongoing</i> | |

| | | | | | | |
|---|--|--|--|--|--------------------------------|---|
| 6-4 Develop/implement program to control other sources of pollutants to the MS4 | <i>Ongoing</i> | <i>The Town utilizes annual training, a plan of action developed with Atlas, as well as BMPs in reducing other possible pollutants to the MS4.</i> | <i>Reducing other possible pollutants to the MS4.</i> | <i>Land Use Commission/Department of Public Works</i> | <i>Ongoing-Started in 2021</i> | <i>A plan of action for emergency spills has been created, and is as follows: the Town will immediately notify Atlas of a spill. Atlas will provide spill response and guidance, including but not limited to coordinating the elimination of any spill flow to navigable waterways, spill cleanup, reporting, etc.</i> |
| 6-5 Evaluate additional measures for discharges to impaired waters* | <i>Ongoing through life of permit.</i> | <i>Wet weather sampling events have been conducted, and priority outfalls were identified throughout the Town. Dry weather inspections are continuing for the entirety of the Town. As catchments are investigated, the Town will coordinate with Atlas on future measures pertaining to the reduction of bacteria discharge to impaired waters.</i> | <i>Pending further investigations create a program or plan of action to reduce bacterial discharge to impaired waters.</i> | <i>Director of Public Works, Town Engineer, Farmington River Watershed Association</i> | <i>Ongoing</i> | <i>Based on wet-and-dry weather testing, the Town will implement additional measures including but not limited to a retrofit program or source management to correct the problem at municipally owned or operated facilities, as well as IDDEs, where applicable.</i> |
| 6-6 Track projects that disconnect DCIA (Ongoing) | <i>Ongoing</i> | <i>A Stormwater Retrofit Program has been drafted, and will be utilized as a method of tracking future DCIA disconnects.</i> | <i>Track DCIA disconnects.</i> | <i>Director of Public Works, Town Engineer</i> | <i>Ongoing-Started in 2021</i> | <i>The Town will utilize the Impervious Cover Tracking Sheet created by NEMO. This will allow the Town to track Project information, new developments, redevelopment, retrofits, changes in impervious cover, and cumulative totals. A Draft Stormwater Retrofit Program is located in Appendix IV of the 2021 Annual Report.</i> |

| | | | | | | |
|--|---------------------------------|--|---|---------------------------|---|---|
| 6-7 Implement infrastructure repair/rehab program (Due 7/1/21) | Ongoing through life of permit. | The Town's method for identifying MS4 infrastructure in need of repair or rehab is as follows: <ol style="list-style-type: none"> 1. An annual inspection of basins; 2. Rehabilitation work on roadways associated with drainage and paving work; 3. Notification from Town residents, and follow-up basin inspections. | Reduce/eliminate causes or contributions of pollution or contamination of stormwater, the storm drain system, or waters of the U.S. | Director of Public Works | Ongoing-Started in 2021 | The Town has pursued funding for storm drainage improvements that may need to be completed. |
| 6-8 Develop/implement plan to identify/prioritize retrofit projects (Due 7/1/20) | Ongoing | A Stormwater Retrofit Program has been drafted. Prioritized areas and/or sites were identified based off DCIA calculations, impaired waterbodies, current stormwater infrastructure, and the MEP of the Town. | Develop retrofit projects. | Director of Public Works. | Ongoing-Started in 2021 | . |
| 6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/22) | Ongoing | As Retrofit Projects are identified, the Town will utilize the Impervious Cover Tracking Sheet to track and work towards disconnecting 2% of DCIA, or the MEP of the Town. | Track and reduce DCIA impacts. | Director of Public Works | Ongoing-Started in 2021 | |
| 6-10 Develop/implement street sweeping program (Ongoing) | Completed | All Town-owned parking lots and streets are annually swept. | Track swept lane miles and reduce pollutants to the MS4 system. | Director of Public Works. | Completed in 2017-Ongoing throughout permit lifetime. | |
| 6-11 Develop/implement catch basin cleaning program (Ongoing) | Completed | The Town's basin cleaning program is as follows: A yearly bid is put forth to contractors, providing a list of catch basins to be cleaned. A daily account of the total basins cleaned, as well as the weight of the material removed from the basins is required. All collected material is tested, and then disposed of at Canton Village Construction Company. | Track material usage, and update plan as needed. | Director of Public Works | Completed in 2017-ongoing throughout permit lifetime. | Approximately 25% of the Town's catch basins are cleaned annually. |

| | | | | | | |
|--|-----------|---|---|--------------------------|---------------------|--|
| 6-12 Develop/implement snow management practices (Due 7/1/18) | Completed | The Town maintains records of applications of sand, anti-icing, or deicing chemicals utilized on an annual basis. | Track material usage and update plan as needed. | Director of Public Works | Completed Annually. | The Town has ceased to utilize road sand during winter road applications. Roadway de-icing and anti-icing procedures are utilized to minimize discharge. |
|--|-----------|---|---|--------------------------|---------------------|--|

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

1. General outfall inspections are to be performed throughout the year, with support from Atlas.
2. Training to applicable employees will be completed.
3. Street sweeping and basin cleanings will continue in 2023.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

| Metrics | |
|--|--------------------------------------|
| Employee training provided for key staff | April 2022 |
| Street sweeping | |
| Curb miles swept | 144 |
| Volume (or mass) of material collected | 295 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) | 714 |
| Total catch basins town- (or institution-) wide | 1,648 |
| Catch basins inspected | 550 |
| Catch basins cleaned | 200 |
| Volume (or mass) of material removed from all catch basins | 150 tons |
| Volume removed from catch basins to impaired waters (if known) | TBD |
| Snow management | |
| Type(s) of deicing material used | Cargill – Clear Lane Enhanced Deicer |
| Total amount of each deicing material applied | 2011 tons |
| Type(s) of deicing equipment used | Truck Spreaders |
| Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane) | 144 miles |
| Snow disposal location | Mills Pond Park – Parking Area |
| Staff training provided on application methods & equipment | Yes / dates: December 2022 |
| Municipal turf management program actions (for permittee properties in basins with N/P impairments) | |

| | |
|--|----------|
| Reduction in application of fertilizers (since start of permit) | 500 lbs. |
| Reduction in turf area (since start of permit) | 1 acres |
| Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems) | |
| Cost of mitigation actions/retrofits | TBD |

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program.

The Town of Canton has found that the current catch basin cleaning program to be more than adequate. Documentation of basins cleaned, amount of material removed and laboratory-testing parameters is well organized, and provides the Town with a clear focus on priority basins to be cleaned in the next yearly cleaning.

6.5 Retrofit program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project. (Due 7/1/20)

The Stormwater Retrofit Program was drafted by the Town and Atlas in 2021. The Program was designed to provide guidance on implementing LID, runoff reduction measures, or other means to disconnect or improve stormwater quality. To meet the 2% MEP disconnection goal, DCIA calculations, Urbanized areas, Impaired Waterbodies, and Catchment Rankings were utilized in identifying and prioritizing areas and/or projects to be selected for retrofits.

DCIA by Catchment was identified utilizing the following formulas:

High Connectivity

$$DCIA\% = 0.4 * (IA\%)^{1.2}$$

$$Directly\ Connected\ Area = (DCIA)(IC\ Acres)$$

Average Connectivity

$$DCIA\% = 0.1 * (IA\%)^{1.5}$$

$$Directly\ Connected\ Area = (DCIA)(IC\ Acres)$$

Partial Connectivity

$$DCIA\% = 0.04 * (IA\%)^{1.7}$$

$$Directly\ Connected\ Area = (DCIA)(IC\ Acres)$$

Slight Connectivity

$$DCIA\% = 0.01 * (IA\%)^{2.0}$$

$$Directly\ Connected\ Area = (DCIA)(IC\ Acres)$$

The Average Connectivity calculation was utilized in assessing the Town’s DCIA connectivity, based on the majority of land use defined as agricultural and/or rural, minor residential communities, and minor-to-moderate commercial or industrialized areas. Based on the Average Connectivity calculations for each catchment, no catchments were identified with a connectivity of 11% or greater.

Catchments were then prioritized utilizing the total urbanized area per catchment. Atlas was provided with a shapefile of the 2010 Urbanized Areas for the Town from the 2010 Census or Urban Classifications, which was imported into ArcGIS for calculation purposes. Utilizing the Overlay-Intersect Tool, Atlas was able to extract the total Urbanized Area acreage per catchment, and then calculate the Urbanized area percentage per catchment utilizing the following formula:

*Urbanized Area (Ac.)/Basin Total Acreage*100*

Based on these calculations, 25 catchments were identified with Urbanized Areas.

Four (4) catchments containing impaired waterbodies were identified for the Town.

Catchment Priority Rankings were conducted for all Sub-Basins in the Town. Multiple factors were taken into consideration when scoring each catchment, including but not limited to DCIA calculations, previous screening results, age of development/structures, density of generating sites, nearby sewer repairs, urbanized areas, and impaired waterbodies. 29 catchments were identified as Problem or High Priority.

Specific criteria was utilized in defining priority areas for the implementation of non-municipal retrofit projects. The criteria utilized in defining priority areas of non-municipal retrofit projects included High or Problem catchment priority rankings, catchments containing an impaired waterbody, and catchments identified with an urbanized area. Utilizing ArcGIS, Atlas extracted catchments where two (2) or more of the aforementioned criteria were found. Community outreach or project redevelopment is encouraged in these defined catchments.

Municipal-owned retrofit projects were identified for several schools, and other municipal-owned sites such as the Fire Department, Town Hall, etc. These locations were selected based on location and plausibility of future disconnects. Refer to the Stormwater Retrofit Program for further information on these 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 Stormwater Retrofit Program is designed to comply with *Section (6) (B) (ii)* of the CTDEEP 2017-2022 MS4 Permit. The Town of Canton will work towards disconnecting existing DCIA. The initial focus of the Stormwater Retrofit Program will first be applied to Town-owned properties, parks, and other facilities, followed by a focus of non-municipal facilities, parks, communities, or other redevelopments. Progress towards the DCIA disconnects will be tracked and continuously updated, with a goal to disconnect one percent (1%) of DCIA or to the MEP each year following the fifth year of the MS4 permit.

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.htm>. 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.

*The Town of Canton, with the assistance of Atlas, has completed all dry weather inspections and wet weather sampling at outfalls to impaired waterbodies. Dry weather screening of 98 outfalls throughout the Town were completed in 2022. These screenings documented the condition of the outfalls, erosion control, material, subtype, and diameter of the outfalls. The condition and erosion control of these outfalls and/or surrounding areas were ranked with the following descriptors; Excellent, Good, Fair, and Poor. Outfalls found with poor to fair conditions and/erosion controls were recommended for repair or implementation of additional erosion controls. Refer to **Attachment II** for the documented dry weather screenings.*

Dry weather inspections throughout the entirety of the Town will continue into the following year, to be conducted again in the spring., Further investigations into SSOs is necessary to make determinations on whether the bacterial impairments are the results of IDDE or natural background conditions for outfalls to impaired waterbodies. Changes to the Stormwater Management Plan are not recommended at this time.

Wet weather sampling was conducted at six (6) priority outfalls, and analyzed for E.coli. All samples collected indicated bacteria results above criteria. Sample results were reported at levels higher than the previous year for E. Coli at all priority outfalls. Samples were also collected by the Farmington River Watershed Association at twelve outfalls. Sampling parameters varied, but included bacteria, chlorine, and other nutrients. Of these twelve outfalls, five (5) were identified as discharging to an impaired waterbody. The twelve outfalls have been flagged for follow-up investigation based on analytical results.

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 (if used) | Follow-up required? * |
|-------------|--------------------------|-------------|---|---|------------------------------------|-----------------------|
| OF-206 | 41.865117/ -72.902721 | 6/14/2021 | Bacteria | - E. coli 5,480 col/100ml - T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-105 | 41.864327/ -72.911845 | 6/14/2021 | Bacteria | -E.coli 2,280 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-103 | 41.864326/ -72.911968 | 6/14/2021 | Bacteria | No discharge. | Phoenix Environmental Laboratories | Yes |
| OF-104 | 41.864327/ -72.911845 | 6/14/2021 | Bacteria | -E.coli 15,500 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-108 | 41.856804/ -72.915978 | 6/14/2021 | Bacteria | -E.coli 1,970 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-107 | 41.856826/ -72.915981 | 6/14/2021 | Bacteria | -E.coli 2,060 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-109 | 41.855805/ -72.921108 | 6/14/2021 | Bacteria | -E.coli 275 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-110 | 41.856027/ -72.920136 | 6/14/2021 | Bacteria | -E.coli 988 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-40 | 41.840474/ -72.924501 | 6/14/2021 | Bacteria | -E.coli 24,110 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-39 | 41.840631/ -72.924348 | 6/14/2021 | Bacteria | -E.coli 933 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-104 | 41.864327/ -72.911845 | 9/1/2021 | Bacteria | -E.coli 3,080 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-206 | 41.865117/ -72.902721 | 9/1/2021 | Bacteria | -E.coli 369 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-40 | 41.840474/ -72.924501 | 9/1/2021 | Bacteria | -E.coli 120 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-105 | 41.864327/ -72.911845 | 9/1/2021 | Bacteria | -E.coli 602 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-107 | 41.856826/ -72.915981 | 9/1/2021 | Bacteria | -E.coli 556 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| OF-108 | 41.856804/ -72.915978 | 9/1/2021 | Bacteria | -E.coli 905 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories | Yes |
| 2022 | | | | | | |
| OF-40 | 41.840474/ -72.924501 | 8/26/2022 | Bacteria | -E. Coli 5,170 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories | Yes |

| | | | | | | |
|-------------|--------------------------|-----------|------------------------|---|---------------------------------------|-----|
| OF-104 | 41.864327/ -72.911845 | 8/26/2022 | Bacteria | -E.coli 15,500 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories | Yes |
| OF-105 | 41.864327/ -72.911845 | 8/26/2022 | Bacteria | -E. Coli 3,450 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories | Yes |
| OF-107 | 41.856826/ -72.915981 | 9/22/2022 | Bacteria | -E. Coli 10,500 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories | Yes |
| OF-108 | 41.856804/ -72.915978 | 9/22/2022 | Bacteria | -E. Coli 7,270 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories | Yes |
| OF-206 | 41.865117/ -72.902721 | 8/26/2022 | Bacteria | -E. Coli >24,200 MPN/100mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories | Yes |
| CB- 2330 | 41.85866/ -72.91343 | 6/6/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 6/20/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 6/21/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | No |
| | | 6/22/2022 | Nutrients | Refer to Attachment IV for analytical data. | Unknown | No |
| | | 7/11/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/19/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/25/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/8/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/22/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | Yes |
| CB-28 | 41.836164/ -72.929891 | 6/6/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 6/20/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 6/21/2022 | Nutrients | Refer to Attachment IV for analytical data. | Unknown | No |
| | | 6/22/2022 | Nutrients | Refer to Attachment IV for analytical data. | Unknown | No |
| | | 7/1/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/25/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/8/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/22/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 9/7/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| CB- 1200 | 41.84525/ -72.92519 | 6/6/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |

| | | | | | | |
|---------|------------------------|-----------|---------------------|--|---------|-----|
| | | 6/21/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/11/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/25/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/8/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/22/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 9/7/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| CB-3220 | 41.85866/ -72.91343 | 5/27/2022 | Chlorine | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 6/6/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 6/20/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 6/22/2022 | Chlorine | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/11/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/19/2022 | Chlorine | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/25/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/8/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/16/2022 | Chlorine | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/22/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 9/7/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 11/1/2022 | Chlorine | Refer to Attachment IV for analytical data. | Unknown | Yes |
| CB-4140 | 41.86497/ -72.90848 | 6/6/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 6/20/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/11/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 7/25/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/8/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 8/22/2022 | Bacteria, Nutrients | Refer to Attachment IV for analytical data. | Unknown | Yes |
| | | 9/7/2022 | Bacteria | Refer to Attachment IV for analytical data. | Unknown | 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) | <ul style="list-style-type: none"> E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others Total Coliform > 500 col/100ml |
| Bacteria (salt waterbody) | <ul style="list-style-type: none"> Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others |
| Other pollutants of concern | Sample turbidity is 5 NTU > in-stream sample |

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

Provide the following information for outfalls exceeding the pollutant threshold.

| Outfall ID | Status of drainage area investigation | Control measure to address impairment |
|---------------------------|---|---|
| All above listed outfalls | Investigations are being conducted on the surrounding drainage area, with a focus on surrounding runoff from agricultural land, septic repairs and failures, as well as SVFs. | Potential measures that may be used in addressing bacterial impairments include aquatic vegetative buffer and control runoff measures implemented. Discussions are underway within the Town on how to address potential septic failures or repairs at privately owned properties. |

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 (if used) |
|-------------|----------------------|-------------|--------------|---|------------------------------------|
| OF-104 | 41.864327/-72.911845 | 6/14/2021 | Bacteria | -E.coli 15,500 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-206 | 41.865117/-72.902721 | 6/14/2021 | Bacteria | - E. coli 5,480 col/100ml - T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-40 | 41.840474/-72.924501 | 6/14/2021 | Bacteria | -E.coli 24,110 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-105 | 41.864327/-72.911845 | 6/14/2021 | Bacteria | -E.coli 2,280 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-107 | 41.856826/-72.915981 | 6/14/2021 | Bacteria | -E.coli 2,060 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-108 | 41.856804/-72.915978 | 6/14/2021 | Bacteria | -E.coli 1,970 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-104 | 41.864327/-72.911845 | 9/1/2021 | Bacteria | -E.coli 3,080 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-206 | 41.865117/-72.902721 | 9/1/2021 | Bacteria | -E.coli 369 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-40 | 41.840474/-72.924501 | 9/1/2021 | Bacteria | -E.coli 120 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-105 | 41.864327/-72.911845 | 9/1/2021 | Bacteria | -E.coli 602 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-107 | 41.856826/-72.915981 | 9/1/2021 | Bacteria | -E.coli 556 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| OF-108 | 41.856804/-72.915978 | 9/1/2021 | Bacteria | -E.coli 905 col/100ml -T Coliform >24,200 col/100ml | Phoenix Environmental Laboratories |
| 2022 | | | | | |
| OF-40 | 41.840474/-72.924501 | 8/26/2022 | Bacteria | -E. Coli 5,170 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories |
| OF-104 | 41.864327/-72.911845 | 8/26/2022 | Bacteria | -E.coli 15,500 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories |

| | | | | | |
|--------|----------------------|-----------|----------|---|------------------------------------|
| OF-105 | 41.864327/-72.911845 | 8/26/2022 | Bacteria | -E. Coli 3,450 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories |
| OF-107 | 41.856826/-72.915981 | 9/22/2022 | Bacteria | -E. Coli 10,500 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories |
| OF-108 | 41.856804/-72.915978 | 9/22/2022 | Bacteria | -E. Coli 7,270 MPN/100 mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories |
| OF-206 | 41.865117/-72.902721 | 8/26/2022 | Bacteria | -E. Coli >24,200 MPN/100mls -T Coliform >24,200 MPN/100mls | Phoenix Environmental Laboratories |

Part III: Additional IDDE Program Data

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

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

| 1. Catchment ID (DEEP Basin ID) | 2. Category | 3. Rank |
|------------------------------------|---------------|---------|
| 4309-00-1 | Low Priority | 4 |
| 4319-11-1 | Low Priority | 4 |
| 4309-01-1 | Problem | 7 |
| 4309-02-1 | Problem | 8 |
| 4309-00-2-R1 | Low Priority | 5 |
| 4309-00-2-R2 | Problem | 6 |
| 4308-19-2-R1 | Low Priority | 2 |
| 4308-18-1 | Low Priority | 5 |
| 4309-03-1 | Problem | 6 |
| 4318-00-1 | Low Priority | 4 |
| 4308-18-2-R1 | Low Priority | 1 |
| 4309-05-1 | Problem | 6 |
| 4318-04-1-L1 | Problem | 9 |
| 4309-04-1 | High Priority | 11 |
| 4300-14-1 | Problem | 7 |
| 4309-00-2-R4 | High Priority | 14 |
| 4318-04-1 | Low Priority | 1 |
| 4308-00-2-R1 | Exempt | 0 |
| 4309-00-2-R3 | Low Priority | 4 |
| 4300-00-4+R6 | Low Priority | 2 |
| 4317-00-1 | Problem | 6 |
| 4300-15-1 | High Priority | 12 |
| 4312-01-1 | High Priority | 10 |
| 4300-00-4+R7 | Exempt | 0 |
| 4309-00-2-R5 | High Priority | 16 |
| 4300-16-1 | Problem | 8 |
| 4300-00-4+R8 | Low Priority | 5 |
| 4312-00-1 | Problem | 11 |
| 4300-00-4+R9 | Problem | 7 |
| 4300-00-4+R10 | High Priority | 10 |
| 4300-18-1-L1 | High Priority | 14 |
| 4310-00-3-L2 | Problem | 9 |
| 4310-00-3-R5 | Low Priority | 4 |
| 4312-00-2-L2 | High Priority | 14 |
| 4300-17-1 | High Priority | 11 |

| | | |
|---------------|---------------|----|
| 4300-00-4+R11 | High Priority | 14 |
| 4300-18-1 | High Priority | 10 |
| 4312-00-2-L1 | Problem | 7 |
| 4317-01-1 | Problem | 7 |
| 4300-16-2-R1 | High Priority | 12 |
| 4300-00-4+R12 | High Priority | 11 |
| 4312-02-1 | Problem | 8 |

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. **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 / Interconnection ID | Latitude / Longitude | Screening / sample date | Ammonia | Chlorine | Conductivity | Salinity | E. coli or enterococcus | Surfactants | Water Temp | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|--------------------------|-------------------------|---------------|---------------|-----------------|-------------|----------------------------------|-------------|------------|----------------------|--|
| 2021 | | | | | | | | | | | |
| OF-105 | 41.864327/ -72.911845 | 4/13/2021 | <0.05 mg/L | <0.02 mg/L | 54 umhos/cm | <0.5 ppt | E. coli- 845 col/100ml | 0.06 mg/L | - | Bacteria | Results of this flow during dry weather indicated a potential bacterial impact; however, further investigation is needed to confirm whether the bacterial impact is naturally occurring. |
| OF-107 | 41.856826/ -72.915981 | 4/13/2021 | <0.05 mg/L | <0.02 mg/L | 203 umhos/cm | <0.5 ppt | E. coli- 10 col/100ml | <0.06mg/L | - | Bacteria | Results of this dry weather flow are indicative of groundwater influence, and not an Illicit Discharge. |
| 2022 | | | | | | | | | | | |
| OF-26 | 41.820792/ -72.889877 | 6/20/2022 | <0.05 mg/L | <0.02 mg/L | 378 umhos/cm | <0.5 ppt | <10 MPN/100mls | <0.05 mg/L | - | Bacteria | Results of this dry weather flow are indicative of groundwater influence, and not an Illicit Discharge. |
| OF-192 | 41.85974/ -72.890135 | 6/20/2022 | <0.05 mg/L | <0.02 mg/L | 240 umhos/cm | <0.5 ppt | 309 MPN/100mls | <0.05 mg/L | - | Bacteria | Results of this flow during dry weather indicated a potential bacterial impact; however, |

| | | |
|-----|------------------|--|
| 86 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 113 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 114 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 115 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 116 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 117 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 118 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 119 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 120 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 121 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 132 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 133 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 134 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 155 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 156 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 173 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 174 | Roaring Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 175 | Roaring Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 190 | Roaring Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 191 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 192 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 198 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 199 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 200 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 201 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 203 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 204 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 205 | Cherry Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 206 | Hop Brook | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 220 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 221 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 222 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 223 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 224 | Farmington River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |
| 225 | Nepaug River | This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12. |

The Town of Canton's sanitary sewer is currently managed by the Town of Canton's Water Pollution Control Facility (WPCF). The storm sewer and sanitary sewer have historically been separate, and remain so in the present day. Therefore, SVFs 4, 5, 6, 7, 8, and 9 are not applicable to the Town. Other SVFs are currently under investigation, and will be updated in the next annual report. These investigations include coordination between the WPCF, as well as the Farmington Valley Health District.

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

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.

| Key Junction Manhole ID | Latitude / Longitude | Screening / Sample date | Visual/ olfactory evidence of illicit discharge | Ammonia | Chlorine | Surfactants |
|---|----------------------|-------------------------|---|---------|----------|-------------|
| <p><i>The identification of key junction manholes that may narrow the location of suspected illicit discharges or SSOs to an isolated pipe segment between two manholes, or key junction manholes that may be located or show evidence of illicit discharges or SSOs that may not be evident at the outfall under all circumstances, or to confirm or identify potential system vulnerability factors is underway. Once identified, these key junction manholes will be inspected during dry weather events for evidence of illicit discharges or SSOs.</i></p> | | | | | | |

3.3 Wet weather investigation outfall sampling data

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 |
|--|----------------------|-------------|---------|----------|-------------|
| <i>Following the identification of key junction manholes during dry weather inspections, follow-up wet weather sampling will be completed where inspections indicate the presence of one or more SVF, SSO, or illicit discharge.</i> | | | | | |

3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

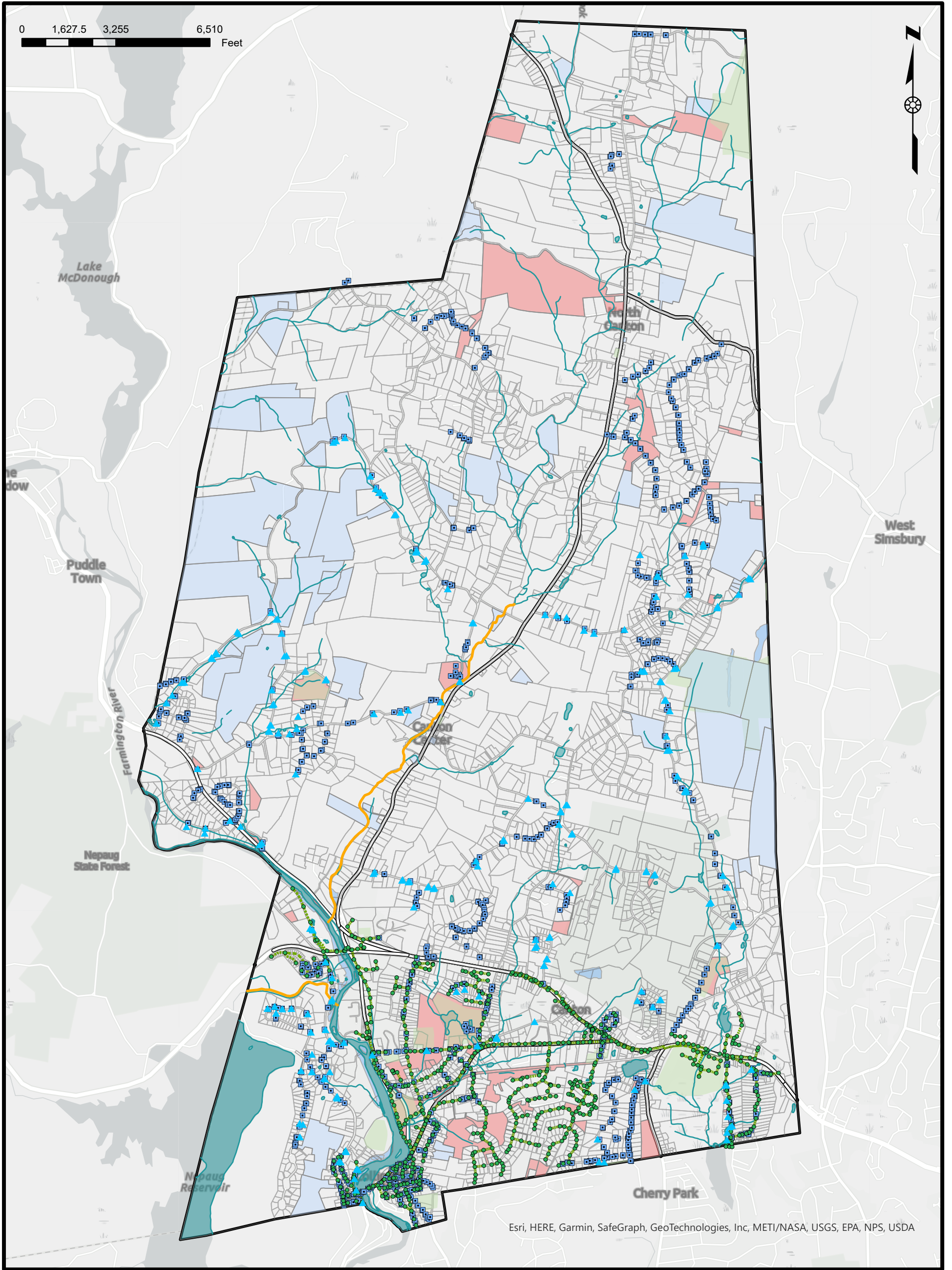
| Discharge location | Source location | Discharge description | Method of discovery | Date of discovery | Date of elimination | Mitigation or enforcement action | Estimated volume of flow removed |
|--------------------|-----------------|-----------------------|---------------------|-------------------|---------------------|----------------------------------|----------------------------------|
| TBD | | | | | | | |

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 Bessel | Print name: Kay Lehoux, Environmental Compliance Manager-Atlas |
| Signature / Date:  4/4/2023 | Signature / Date:  4/3/2023 |
| Email: rbessel@townofcantonct.org | Email: Kay.Lehoux@oneatlas.com |

FIGURES



Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

Legend

| | | |
|--------------------|-----------------------|------------------|
| Outfall | Surface Water | Critical Habitat |
| Sewer Manhole | Land Conservation | Town Boundary |
| Catch Basin | Municipal Open Space | State_Rds |
| Impaired Waterbody | Parcel | |
| Sewer Main | Town-Owned Properties | |

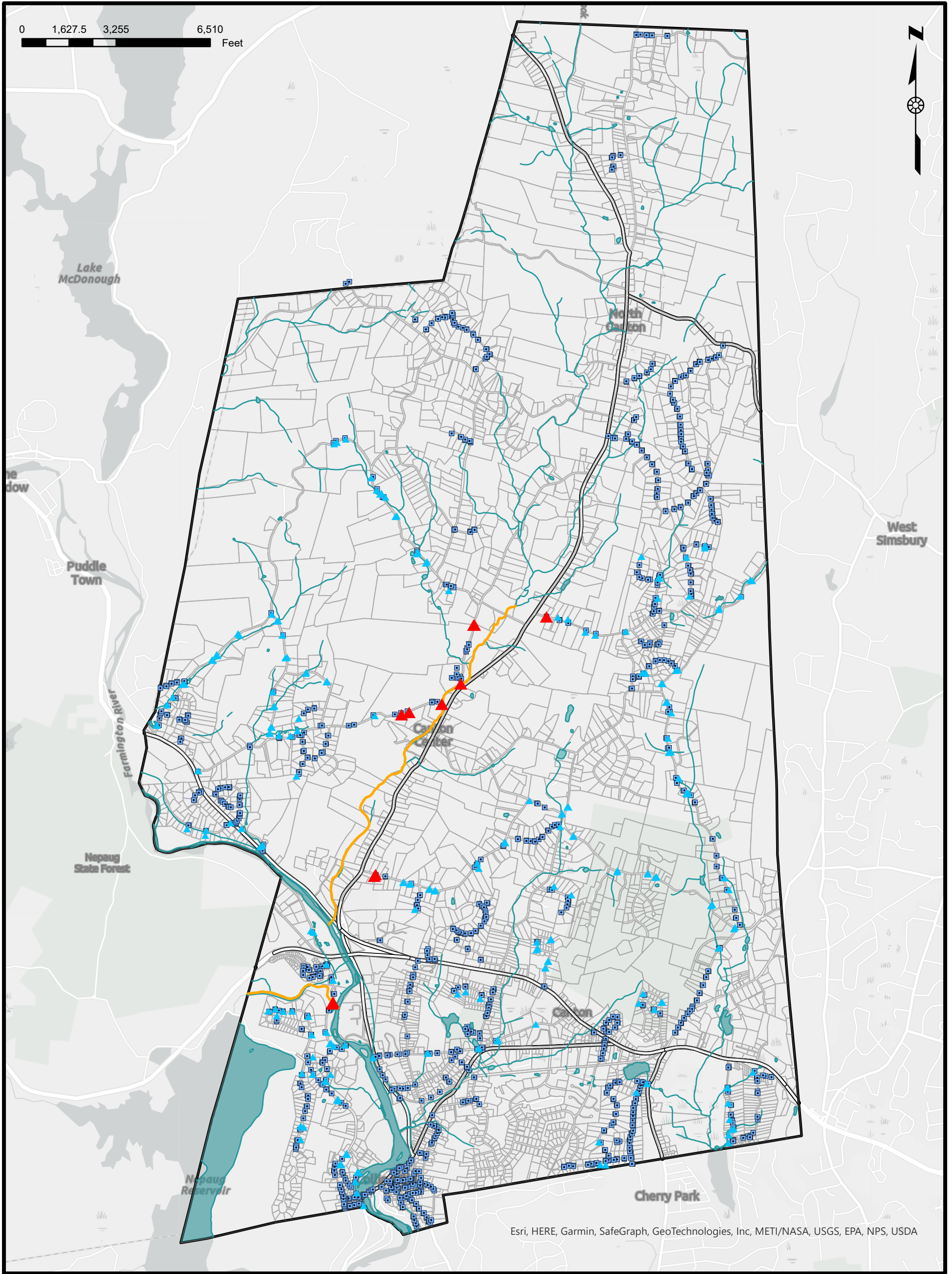
Town of Canton

2022 Annual Report

MS4 System











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East Hartford, CT 006108



Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

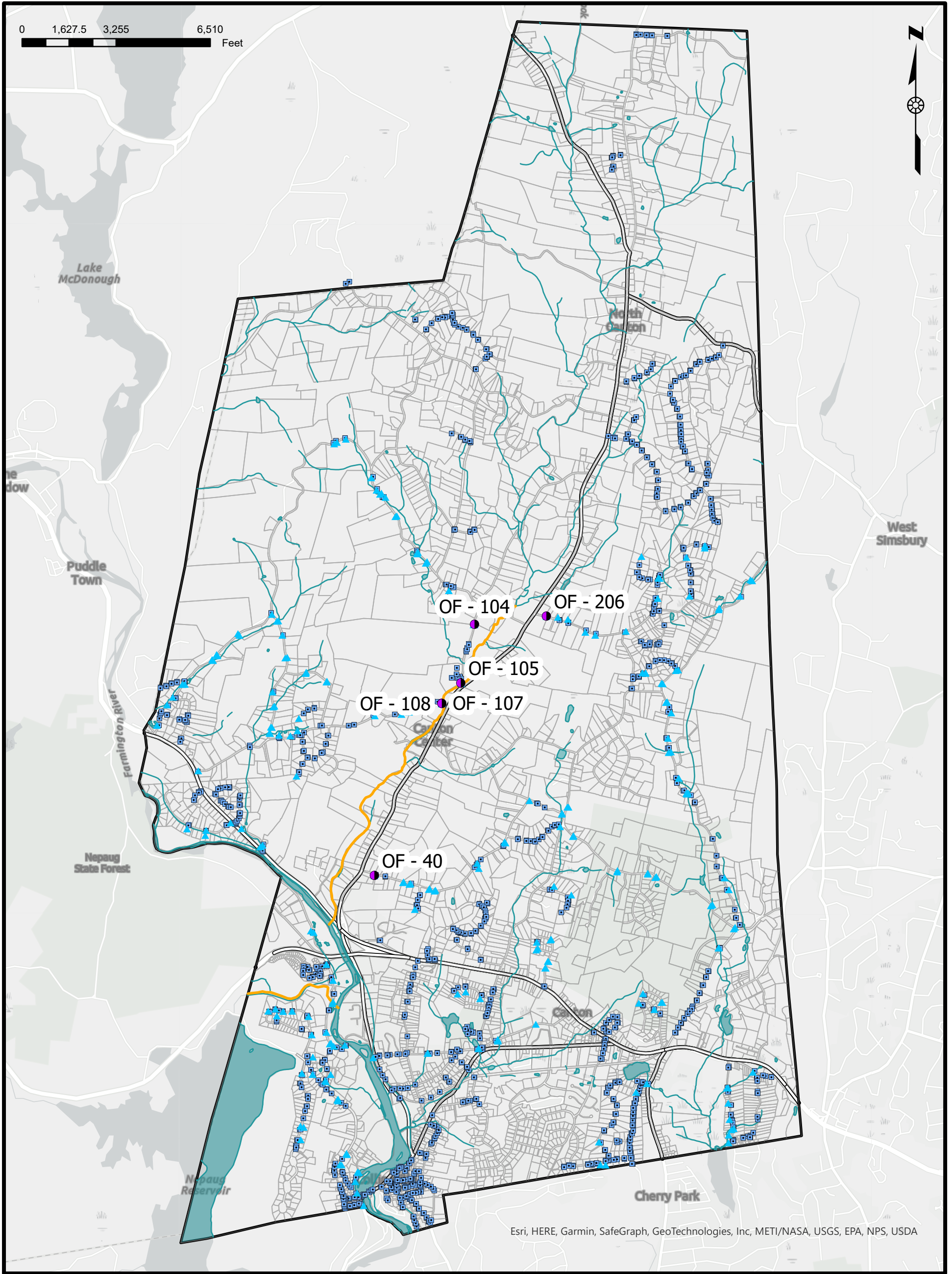
Legend

| | | | |
|---|----------------------------|---|---------------|
|  | Outfall to Impaired Waters |  | Surface Water |
|  | Outfall |  | Parcel |
|  | Catch Basin |  | Town Boundary |
|  | Impaired Waterbody |  | State_Rds |

Town of Canton

2022 Annual Report

Outfalls to Impaired Waters



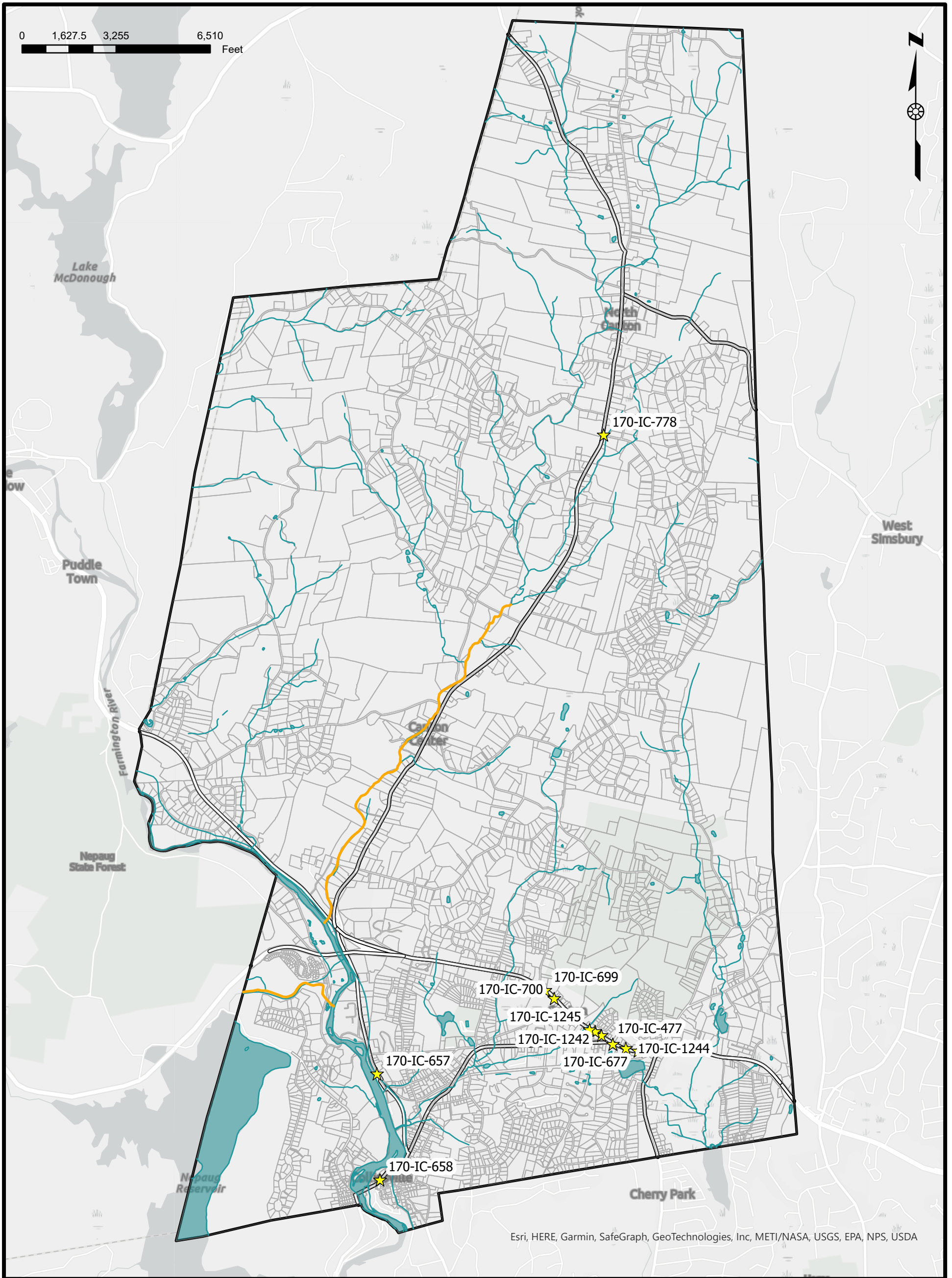
Legend

| | | | |
|--|--------------------|--|---------------|
| | Priority Outfall | | Surface Water |
| | Outfall | | Parcel |
| | Catch Basin | | Town Boundary |
| | Impaired Waterbody | | State_Rds |

Town of Canton

2022 Annual Report

Priority Outfalls



Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

Legend

- ★ CTDOT Interconnections
- Impaired Waterbody
- Surface Water
- State_Rds
- Parcel
- ▭ Town Boundary

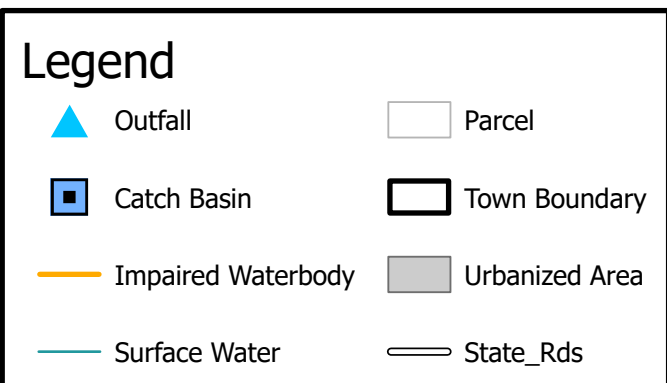
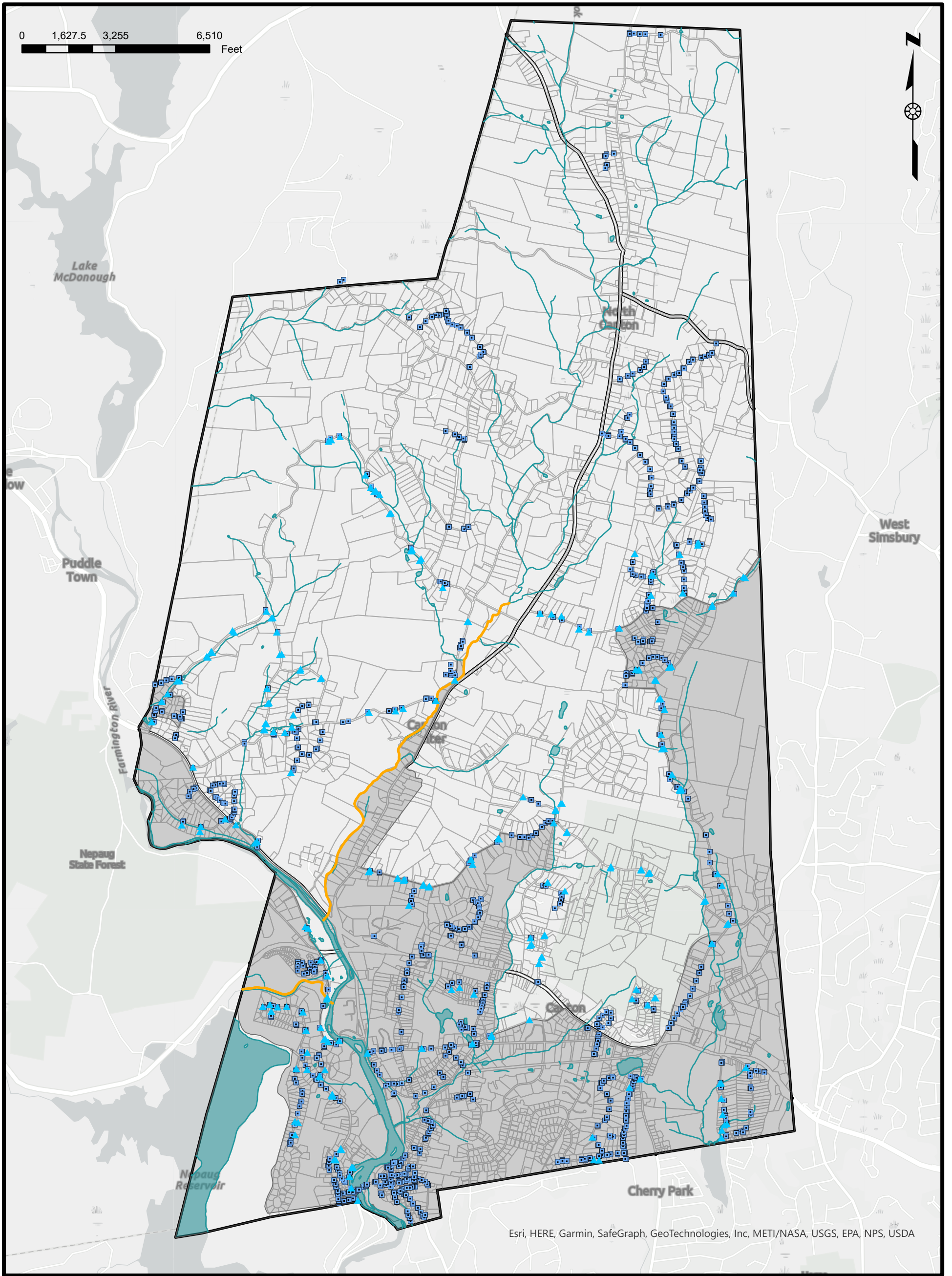
Town of Canton

2022 Annual Report

CTDOT Interconnections



290 Roberts Street, Suite 301
East Hartford, CT 006108



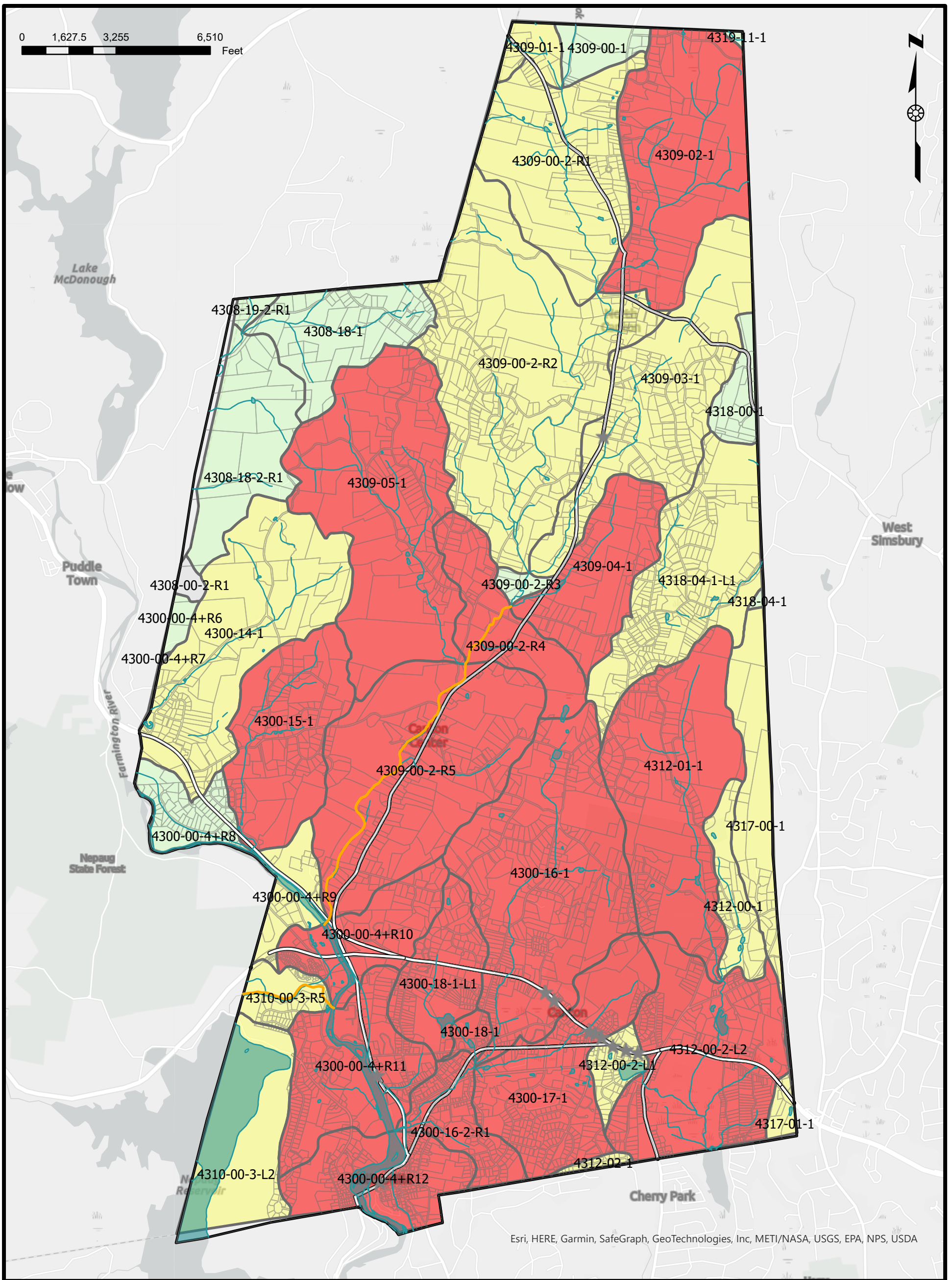
Town of Canton

2022 Annual Report

Urbanized Area by Catchment



290 Roberts Street, Suite 301
East Hartford, CT 006108



Legend

| | |
|--------------------|-------------------------|
| Impaired Waterbody | State_Rds |
| Surface Water | Priority Ranking |
| Parcel | High |
| Town Boundary | Problem |
| | Low |
| | Exempt |

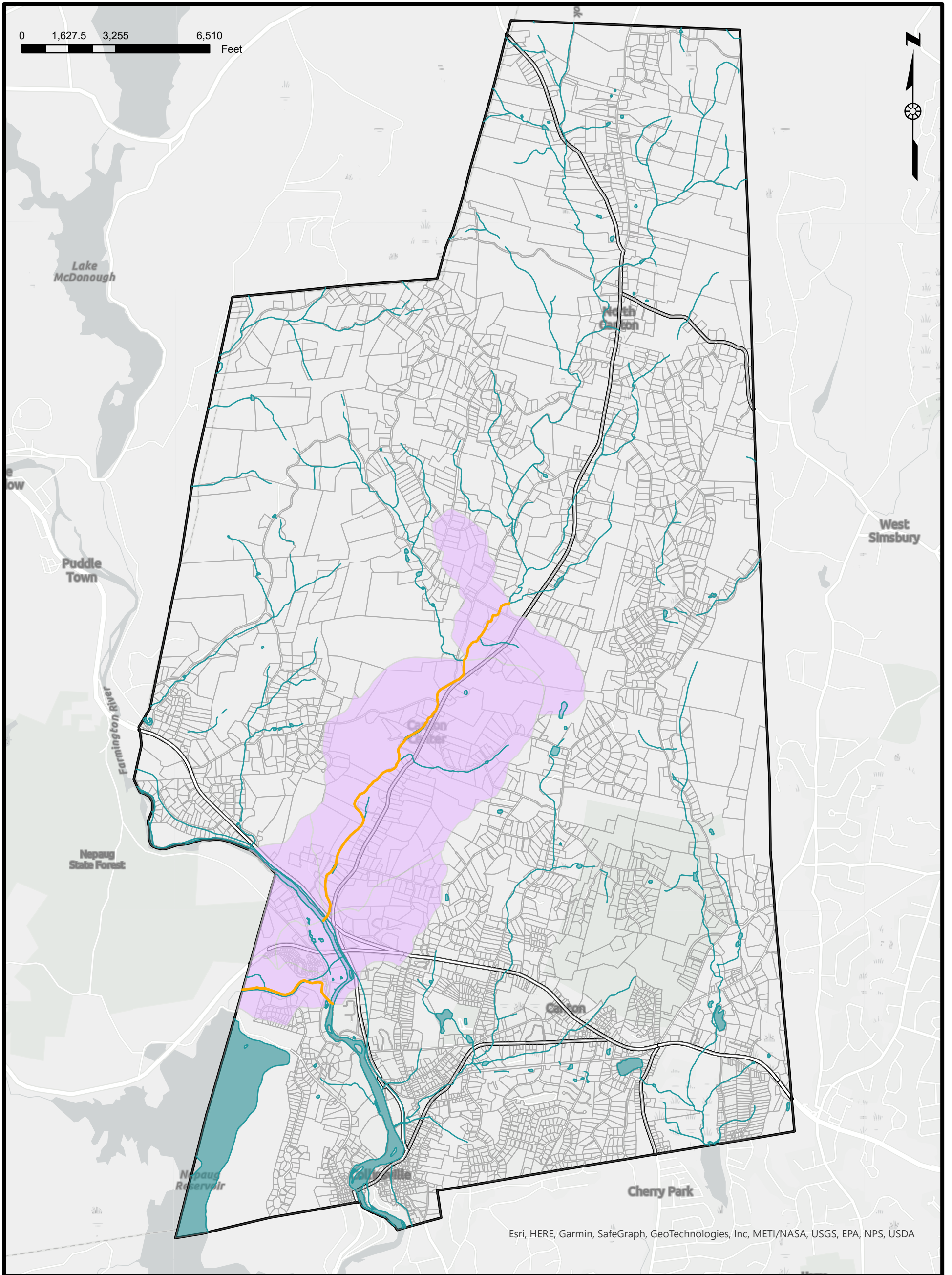
Town of Canton

2022 Annual Report







Catchment Priority Ranking



290 Roberts Street, Suite 301
East Hartford, CT 006108



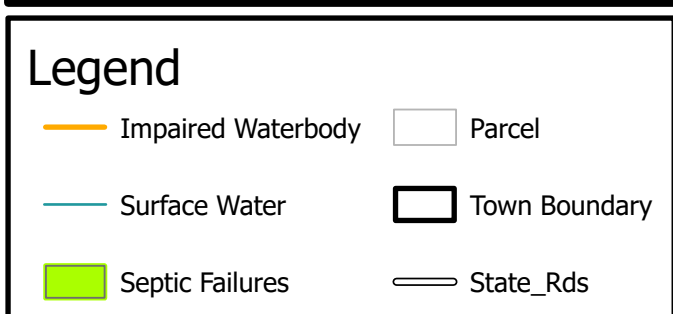
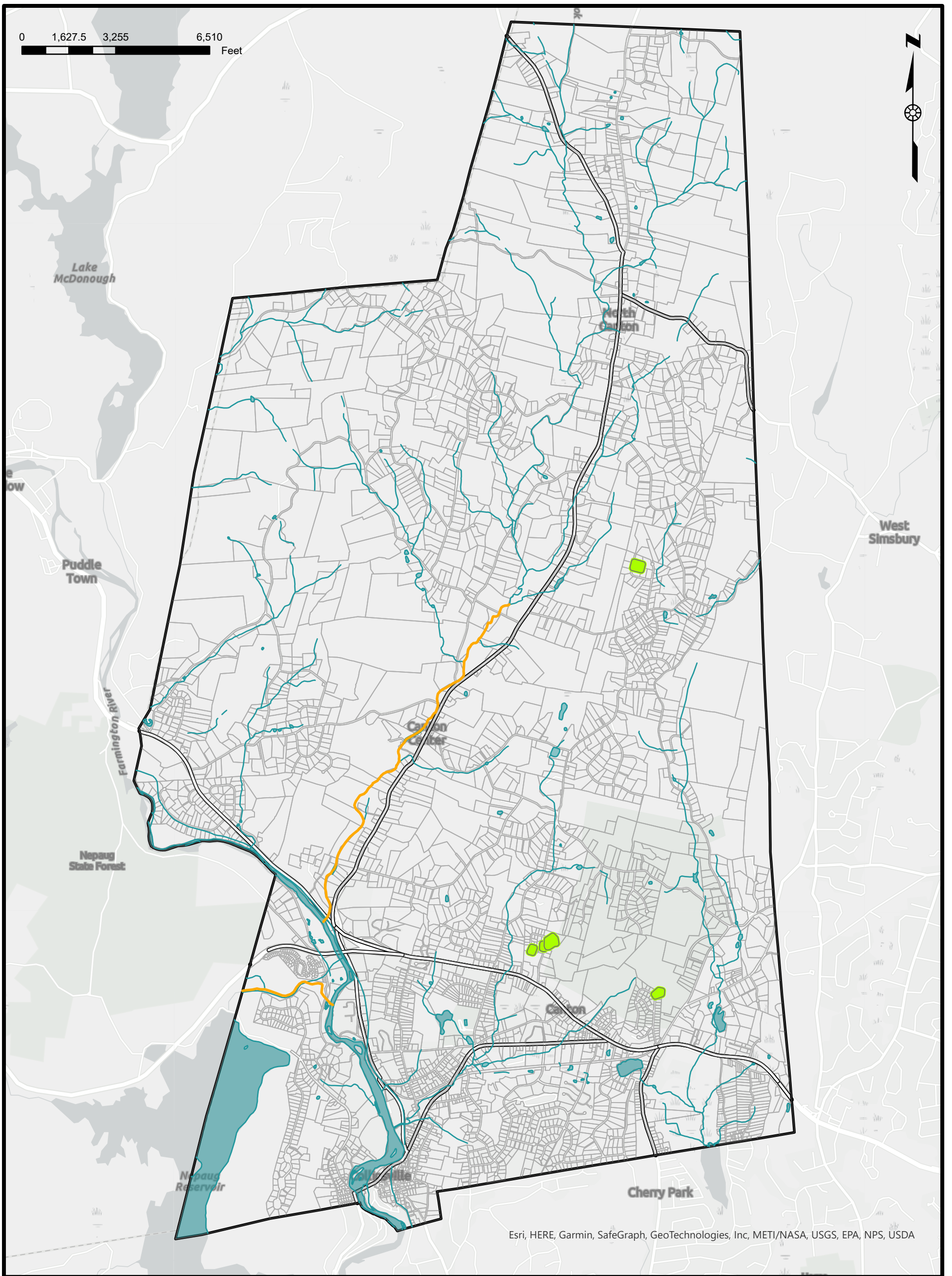
Legend

| | |
|---|---|
|  Impaired Waterbody |  Parcel |
|  Surface Water |  Town Boundary |
|  Impaired Waters Catchment |  State_Rds |

Town of Canton

2022 Annual Report

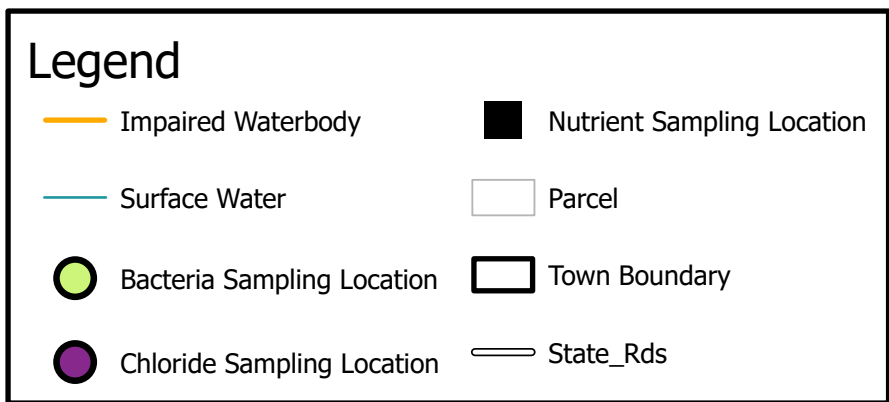
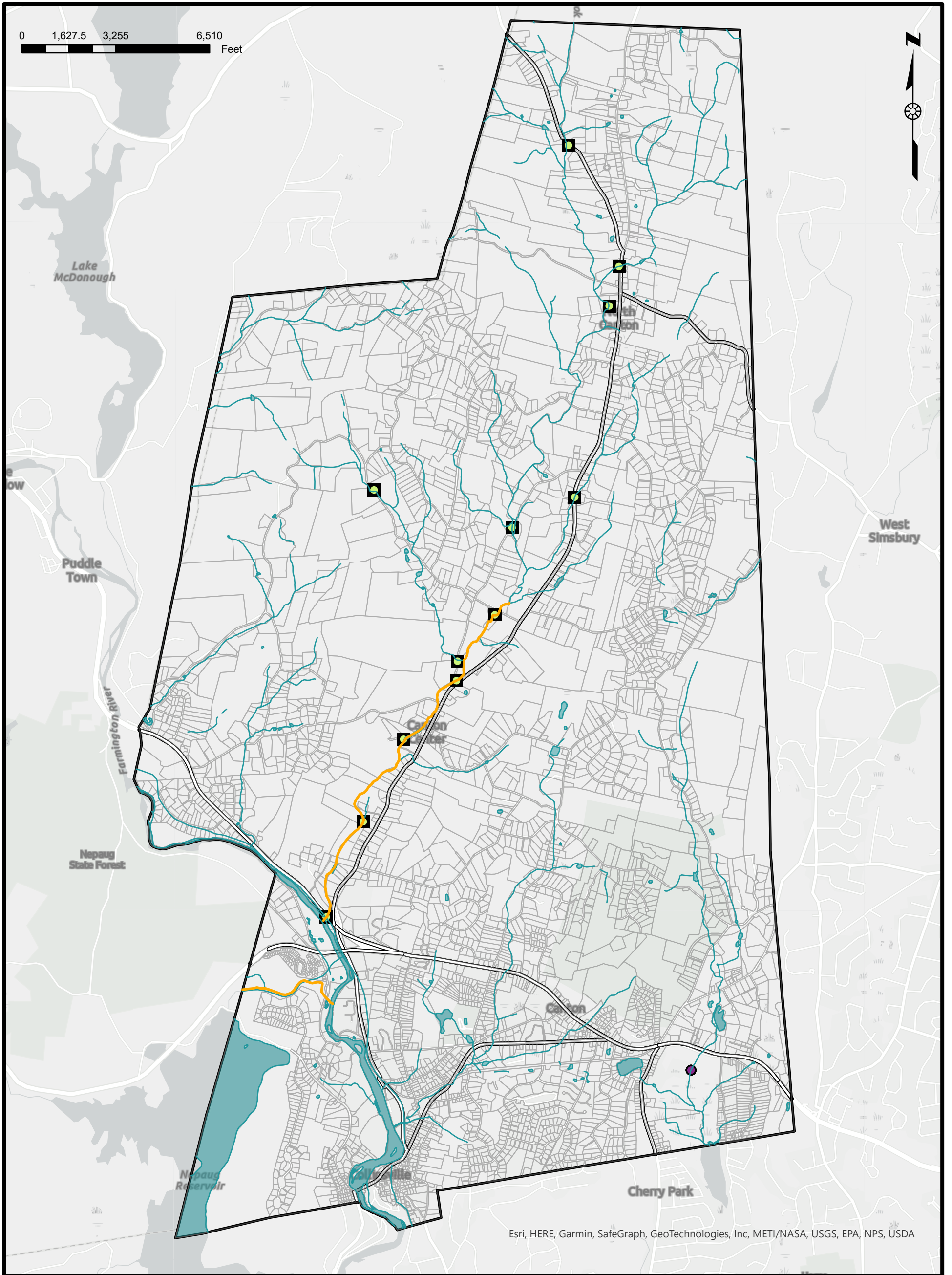
Impaired Waters by Catchment



Town of Canton

2022 Annual Report

2022 Septic Failures



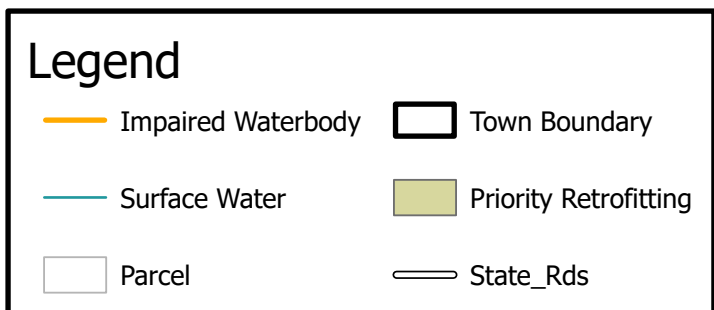
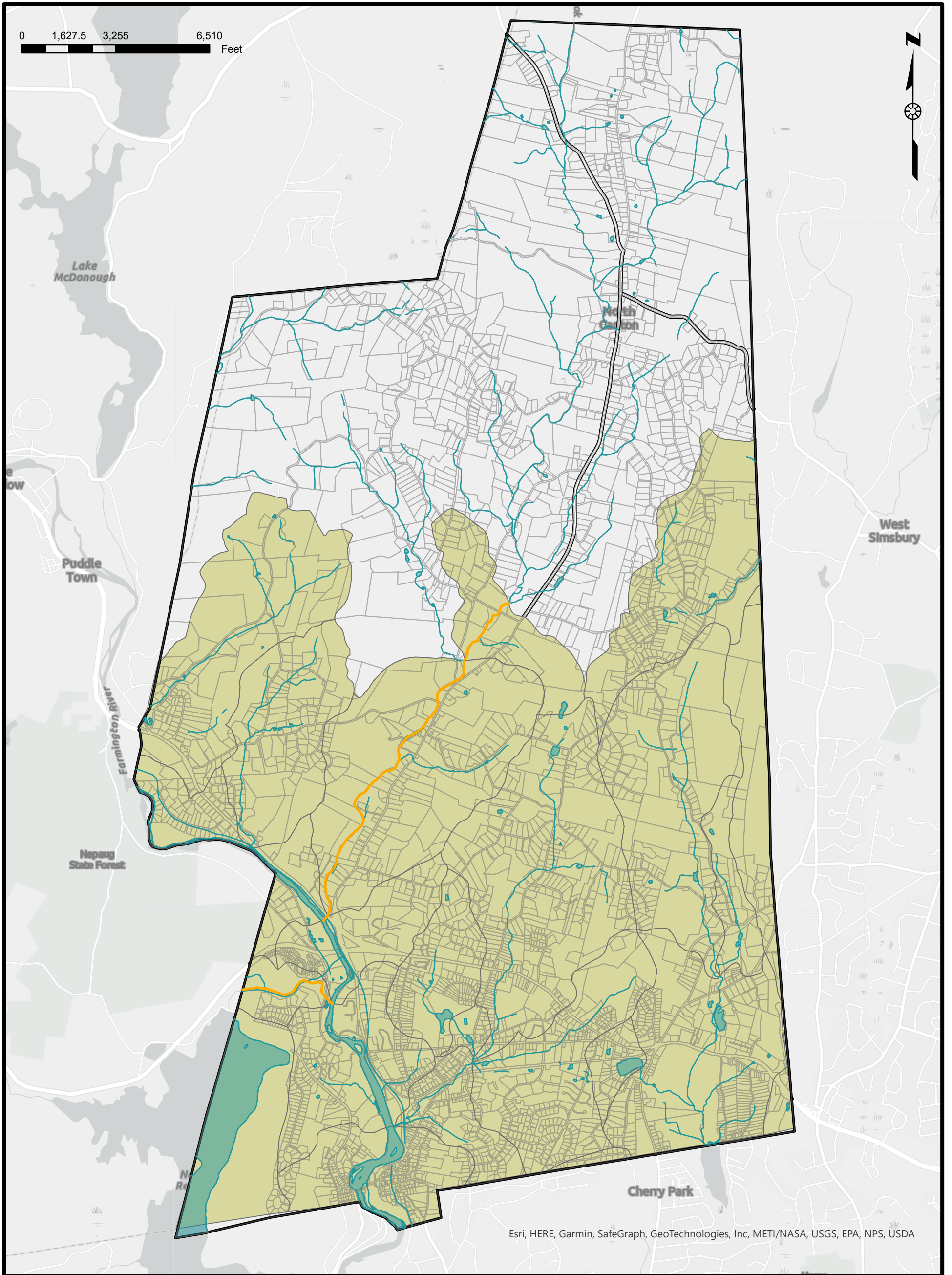
Town of Canton

2022 Annual Report

FRWA Sampling



290 Roberts Street, Suite 301
East Hartford, CT 006108



Town of Canton

2022 Annual Report

Prioritized Retrofitting by Catchment

ATTACHMENT I

Town of Canton 2022 Wet Weather Sampling

| Outfall ID | Inspection Date | Condition | Discharge Description | General Parameters | | | | | | | Bacterial | |
|------------|-----------------|-----------|---|---------------------------------|------------------------|-------------------------|-------------|----------|-----------------|------|------------------|-----------------|
| | | | | Temperature (°C) ⁽³⁾ | pH (SU) ⁽³⁾ | Dissolved Oxygen (mg/L) | SPC (uS/cm) | ORP (mV) | Turbidity (NTU) | Odor | Escherichia Coli | Total Coliforms |
| | | | | | | | | | | | | |
| OF-206 | 8/26/2022 | Poor | Outfall half-filled with sediment. Sample is clear with little suspended sediment . | 23.7 | 5.97 | 4.79 | 3.2 | 99 | 34.10 | No | >24,200 | >24,200 |
| OF-104 | 8/26/2022 | Excellent | Discharge mostly clear with little suspended sediment. Light brown color. | 24.5 | 6.06 | 4.92 | 27.8 | 156.4 | 39.73 | No | 15,500 | >24,200 |
| OF-105 | 8/26/2022 | Excellent | Clear with suspended sediment. Light brown color. | 25.7 | 6.05 | 6.68 | 93 | 176.2 | 48.47 | No | 3,450 | >24,200 |
| OF-107 | 9/22/2022 | Fair | Approximately 1-inch of sediment within outfall. Very low flow. Discharge appearance is clear. | 18.9 | 7.31 | 5.61 | 62.4 | 162.5 | 13.20 | No | 10,500 | >24,200 |
| OF-108 | 9/22/2022 | Fair | Approximately 2-inches of sediment in outfall. Very low flow discharged from outfall. Appearance of discharge is clear, no color. | 17.3 | 6.41 | 6.42 | 21.2 | 175.8 | 14.03 | No | 7,270 | >24,200 |
| OF-40 | 8/26/2022 | Good | Heavy foam. Clear. Organic-like odor. | 22.9 | 6.11 | 5.08 | 221.2 | 77.3 | 18.35 | Yes | 5,170 | >24,200 |

| Notes: |
|---|
| * All highlighted bacterial concentrations are required for follow-up investigations. |
| *Highlighting is based on the following criteria; |
| 1. E. Coli >235/100mL for Swimming Areas, and >410 col/100mL for all others. |
| 2. Total Coliform > 500 col/100mL |
| 3. Fecal Coliform >31 col/100 mL for Class SA and >260 col/100mL for Class SB |
| 4. Enterococci >104 col/100mL for Swimming Areas and >500 col/100mL for all others. |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|--|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Wet Weather Sampling</i> | Date: <i>2022</i> |
|--|--|-----------------------------|


| Outfall ID | |
|-------------------|---|
| OF-104 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|--|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Wet Weather Sampling</i> | Date: <i>2022</i> |
|--|--|-----------------------------|

| Outfall ID | |
|-------------------|--|
| OF-105 |  <p>The table contains three photographs of outfall OF-105. The top photo shows a concrete pipe discharging water into a stream, surrounded by dense green vegetation. The middle photo shows a clear plastic sampling bag being held over the pipe's opening. The bottom photo shows a closer view of the water flowing from the pipe into the stream.</p> |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|--|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Wet Weather Sampling</i> | Date: <i>2022</i> |
|--|--|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-206 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|--|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Wet Weather Sampling</i> | Date: <i>2022</i> |
|--|--|-----------------------------|




| Outfall ID | |
|-------------------|---|
| OF-40 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|--|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Wet Weather Sampling</i> | Date: <i>2022</i> |
|--|--|-----------------------------|



| Outfall ID | |
|-------------------|---|
| OF-107 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|--|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Wet Weather Sampling</i> | Date: <i>2022</i> |
|--|--|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-108 |    |



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 23, 2022

FOR: Attn: Luke Whitehouse
 ATC Associates
 290 Roberts St., Suite 301
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
 Location Code: ATC-EHDAS
 Rush Request: 48 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

09/22/22
 09/22/22

Time

12:40
 17:10

Laboratory Data

SDG ID: GCM39455
 Phoenix ID: CM39455

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE
 Client ID: OF-107

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|------------------|--------|------------|-------------|----------|----------------|------|------------|
| Escherichia Coli | 10500 | 10 | MPN/100 mls | 10 | 09/22/22 19:35 | M/LJ | SM9223B-16 |
| Total Coliforms | >24200 | 10 | MPN/100 mls | 10 | 09/22/22 19:35 | M/LJ | SW9223B-16 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
 September 23, 2022
 Official Report Release To Follow



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 23, 2022

FOR: Attn: Luke Whitehouse
 ATC Associates
 290 Roberts St., Suite 301
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
 Location Code: ATC-EHDAS
 Rush Request: 48 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

09/22/22
 09/22/22

Time

12:50
 17:10

Laboratory Data

SDG ID: GCM39455
 Phoenix ID: CM39456

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE
 Client ID: OF-108

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|------------------|--------|------------|-------------|----------|----------------|------|------------|
| Escherichia Coli | 7270 | 10 | MPN/100 mls | 10 | 09/22/22 19:35 | M/LJ | SM9223B-16 |
| Total Coliforms | >24200 | 10 | MPN/100 mls | 10 | 09/22/22 19:35 | M/LJ | SW9223B-16 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
 September 23, 2022
 Official Report Release To Follow

Criteria: CT: GBM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCM39455 - ATC-EHDAS

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Coolant: Yes No
 Cooler: Yes No
 Temp 0.0°C Pg of

CHAIN OF CUSTODY RECORD

Data Delivery/Contact Options:
 Fax:
 Phone:
 Email: luke.whitehouse@oneatlus.com

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Customer: Atlas Technical Consultants, LLC
 Address: 290 Roberts Street
 East Hartford, CT 06108
 Project: Town of Canton MS4 SW Compliance
 Report to: Luke Whitehouse
 Invoice to: Atlas
 QUOTE #

Sampler's Signature: *[Signature]* Date: 9/27-22
 Client Sample Information - Identification

Matrix Code: DW=Drinking Water, GW=Ground Water, SW=Surface Water, WW=Waste Water, RW=Raw Water, SE=Sediment, SL=Sludge, S=Soil, SD=Solid, W=Wipe, OIL=Oil, B=Bulk, L=Liquid

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Analysis Request | GL Amber 8 oz. with 30x40 GL Soil container (8) oz | GL Amber 1000ml (X) as is (X) H2SO4 | GL Amber 1250ml (X) as is (X) H2SO4 | GL Amber 1500ml (X) 1000ml | Backline Bottles as is |
|---------------------------|--------------------------------|---------------|--------------|--------------|------------------|--|-------------------------------------|-------------------------------------|----------------------------|------------------------|
| 39455 | OF-104 | SW | 9/22 | 12:40 | X | X | X | X | 2 | |
| 39456 | OF-206 | SW | 9/22 | 12:50 | X | X | X | X | 2 | |
| | OF-40 | SW | | | X | X | X | X | 2 | |
| | OF-105 | SW | | | X | X | X | X | 2 | |
| | OF-107 | SW | | | X | X | X | X | 2 | |
| | OF-108 | SW | | | X | X | X | X | 2 | |

Relinquished by: *[Signature]* Accepted by: *[Signature]* Date: 9/27/22 Time: 1710

Turnaround:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other
 * SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

CT DAS Rates

RI: Direct Exposure (Residential) GW Other

CT: RCP Cert GW Protection SW Protection GA Mobility GB Mobility Residential DEC I/C DEC Other

MA: MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-3 MWRA eSMART Other

Data Format: Excel PDF GIS/Key EQUIS Other

Data Package: Tier II Checklist Full Data Package* Phoenix Std Report Other

* SURCHARGE APPLIES

State where samples were collected: CT

This section MUST be completed with Bottle Quantities.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 29, 2022

FOR: Attn: Luke Whitehouse
 ATC Associates
 290 Roberts St., Suite 301
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
 Location Code: ATC-EHDAS
 Rush Request: 48 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

08/26/22
 08/26/22

Time

16:00
 17:30

Laboratory Data

SDG ID: GCM16552
 Phoenix ID: CM16552

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE
 Client ID: OF-104

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|------------------|--------|------------|-------------|----------|----------------|--------|------------|
| Escherichia Coli | 15500 | 10 | MPN/100 mls | 10 | 08/26/22 18:40 | LJ/KDB | SM9223B-16 |
| Total Coliforms | >24200 | 10 | MPN/100 mls | 10 | 08/26/22 18:40 | LJ/KDB | SW9223B-16 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

August 29, 2022

Official Report Release To Follow



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 29, 2022

FOR: Attn: Luke Whitehouse
 ATC Associates
 290 Roberts St., Suite 301
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
 Location Code: ATC-EHDAS
 Rush Request: 48 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

08/26/22
 08/26/22

Time

16:10
 17:30

Laboratory Data

SDG ID: GCM16552
 Phoenix ID: CM16553

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE
 Client ID: OF-206

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|------------------|--------|------------|-------------|----------|----------------|--------|------------|
| Escherichia Coli | >24200 | 10 | MPN/100 mls | 10 | 08/26/22 18:40 | LJ/KDB | SM9223B-16 |
| Total Coliforms | >24200 | 10 | MPN/100 mls | 10 | 08/26/22 18:40 | LJ/KDB | SW9223B-16 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
August 29, 2022
Official Report Release To Follow



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 29, 2022

FOR: Attn: Luke Whitehouse
 ATC Associates
 290 Roberts St., Suite 301
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
 Location Code: ATC-EHDAS
 Rush Request: 48 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

08/26/22
 08/26/22

Time

16:30
 17:30

Laboratory Data

SDG ID: GCM16552
 Phoenix ID: CM16554

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE
 Client ID: OF-40

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|------------------|--------|------------|-------------|----------|----------------|--------|------------|
| Escherichia Coli | 5170 | 10 | MPN/100 mls | 10 | 08/26/22 18:40 | LJ/KDB | SM9223B-16 |
| Total Coliforms | >24200 | 10 | MPN/100 mls | 10 | 08/26/22 18:40 | LJ/KDB | SW9223B-16 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
August 29, 2022
Official Report Release To Follow



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 29, 2022

FOR: Attn: Luke Whitehouse
 ATC Associates
 290 Roberts St., Suite 301
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
 Location Code: ATC-EHDAS
 Rush Request: 48 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

08/26/22
 08/26/22

Time

15:45
 17:30

Laboratory Data

SDG ID: GCM16552
 Phoenix ID: CM16555

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE
 Client ID: OF-105

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|------------------|--------|------------|-------------|----------|----------------|--------|------------|
| Escherichia Coli | 3450 | 10 | MPN/100 mls | 10 | 08/26/22 18:40 | LJ/KDB | SM9223B-16 |
| Total Coliforms | >24200 | 10 | MPN/100 mls | 10 | 08/26/22 18:40 | LJ/KDB | SW9223B-16 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
August 29, 2022
Official Report Release To Follow

Criteria: CT: GAM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCM16552 - ATC-EHDAS

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

*** No Data to Display ***

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587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726

Coolant: ICE No
 No
 Temp: 9 C Pg of

Data Delivery/Contact Options:
 Fax:
 Phone:
 Email: luke.whitehouse@omeatlas.com

Customer: Atlas Technical Consultants, LLC Project: Town of Canton MS4 SW Compliance
 Address: 290 Roberts Street Report to: Luke Whitehouse
East Hartford, CT 06108 Invoice to: Atlas
 QUOTE # _____

Sampler's Signature: [Signature] Date: 8/26/22
 Client Sample Information - Identification

Matrix Code: SW = Ground Water SW = Surface Water WW = Waste Water
RW = Raw Water SE = Sediment SL = Sludge S = Soil SD = Solid W = Waste OIL = Oil
B = Bulk L = Liquid

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Analysis Request |
|------------------------------|--------------------------------|---------------|--------------|--------------|------------------|
| <u>16552</u> | <u>OF-104</u> | <u>SW</u> | <u>8/22</u> | <u>16:00</u> | <u>X</u> |
| <u>16553</u> | <u>OF-206</u> | <u>SW</u> | <u>8/22</u> | <u>16:10</u> | <u>X</u> |
| <u>16554</u> | <u>OF-40</u> | <u>SW</u> | <u>8/22</u> | <u>16:30</u> | <u>X</u> |
| <u>16555</u> | <u>OF-105</u> | <u>SW</u> | <u>8/22</u> | <u>15:45</u> | <u>X</u> |
| <u>DW</u> | <u>OF-107</u> | <u>SW</u> | | | <u>X</u> |
| | <u>OF-108</u> | <u>SW</u> | | | <u>X</u> |

Requisitioned by: [Signature] Accepted by: [Signature]
 Date: 8/26/22 Time: 1730

Comments, Special Requirements or Regulations:
 Turnaround:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other
 * SURCHARGE APPLIES

| Analysis Request | GL Amber 8 oz. WH3PO4 | GL Soil container (8 oz) | GL Amber 1000ml [As Is] X1 HCL | GL Amber 1000ml [As Is] X1 H2SO4 | PL HNO3 250ml | PL HNO3 500ml | PL HNO3 1000ml | PL HNO3 250ml | PL HNO3 500ml | PL HNO3 1000ml | Bacteria Bottle with/without |
|------------------|-----------------------|--------------------------|--------------------------------|----------------------------------|---------------|---------------|----------------|---------------|---------------|----------------|------------------------------|
| | | | | | | | | | | | |

RI: Direct Exposure (Residential) GW Other

CT: RCP Cert GW Protection SW Protection GA Mobility GB Mobility Residential DEC I/C DEC Other

MA: MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-3 MWRA eSMART Other

Data Format: Excel PDF GIS/Key EQUIS Other

Data Package: Tier II Checklist Full Data Package* Phoenix Std Report Other

* SURCHARGE APPLIES

State where samples were collected: CT

ATTACHMENT II

**Town of Canton
2022 Dry Weather Inspections**

| Outfall ID | Inspection Date | Material | Subtype | Diameter (Inches) | Condition | Erosion Control | Notes | Maintenance Or Erosion Control Needed? | Illicit Discharge? | Illicit Discharge Flow Type | Illicit Discharge Description | Longitude | Latitude |
|------------|-----------------|------------------|------------|-------------------|-----------|-----------------|--|--|--------------------|-----------------------------|-------------------------------|--------------|-------------|
| OF-5 | 6/20/2022 | Concrete | Endwall | 18 | Good | Good | Culverted stream. Three (3) 18-inch metal corrugated pipes. | No | No | -- | -- | -72.87955543 | 41.8204329 |
| OF-6 | 6/20/2022 | Corrugated Steel | Endwall | 18 | Good | Fair | Corrugated steel, concrete endwall. | No | No | -- | -- | -72.87970815 | 41.82039942 |
| OF-9 | 6/20/2022 | Concrete | Endwall | 18 | Fair | Fair | Concrete block head wall. | No | No | -- | -- | -72.87881881 | 41.81655661 |
| OF-9 | 6/20/2022 | Concrete | Endwall | 18 | Fair | Fair | Concrete block head wall. | No | No | -- | -- | -72.87880646 | 41.81440136 |
| OF-26 | 6/20/2022 | Concrete | Endwall | 36 | Good | Fair | Iron stain on discharge, clear flow no odor | No | Yes | Steady | Clear flow, iron staining | -72.88987708 | 41.8208011 |
| OF-27 | 6/20/2022 | Concrete | Flared End | 24 | Poor | Poor | Sediment 8-10 inches at end. Heavy over growth, no erosion control. | Maintenance and Erosion Control | No | -- | -- | -72.89124251 | 41.81999105 |
| OF-29 | 6/20/2022 | Concrete | Flared End | 18 | Good | Good | Concrete flare end, 18-inch diameter. Some riprap. | No | No | -- | -- | -72.89507832 | 41.81307512 |
| OF-28 | 6/20/2022 | Concrete | Flared End | 18 | Poor | Poor | Concrete flared end, 18-inch diameter. Depressed area set in soil. Standing water in pipe and depression. | Maintenance and Erosion Control | No | -- | -- | -72.89574307 | 41.81309521 |
| OF-30 | 6/20/2022 | Concrete | Flared End | 18 | Fair | Poor | Concrete flared end, 18-inches. Next to drainage pipe is a 24-inch flare to 18- inch pipe concrete flared end. Discharges into wetland-standing water. | Maintenance and Erosion Control | No | -- | -- | -72.8959407 | 41.81526447 |
| OF-14 | 6/20/2022 | Concrete | Other | 18 | Fair | Fair | Concrete pipe, stone/boulder erosion control, dry , 6- inches of sediment inside pipe. | Maintenance and Erosion Control | No | -- | -- | -72.88790976 | 41.82851945 |
| OF-60 | 6/20/2022 | -- | -- | -- | -- | -- | No outfall or culvert found | -- | -- | -- | -- | -72.88804451 | 41.82851945 |
| OF-24 | 6/20/2022 | Concrete | Endwall | 18 | Fair | Fair | Concrete pipe parallel to endwall of OF-23. | Maintenance and Erosion Control | No | -- | -- | -72.90237264 | 41.83238832 |
| OF-24 | 6/20/2022 | Concrete | Endwall | 18 | Good | Fair | 18 -inch concrete pipe. Dry, no sediment, discharge adjacent to OF-23 . Drainage swale, covered stone box drain. | Erosion Control | No | -- | -- | -72.90237264 | 41.83238832 |
| OF-50 | 6/20/2022 | Concrete | Endwall | 18 | Good | Poor | Stone Endwall with concrete pipe 18 -inch. | Erosion Control | No | -- | -- | -72.90280383 | 41.83176583 |

**Town of Canton
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|------------|-----------------|------------------|---------|-------------------|-----------|-----------------|---|--|--------------------|-----------------------------|-------------------------------|--------------|-------------|
| OF-25 | 6/20/2022 | HDPE | Other | 18 | Good | Excellent | Discharge to catch basin. Receives from catch basin upflow, that receives discharge from 4- inch corrugated pipe. | No | No | -- | -- | -72.90272298 | 41.83175914 |
| OF-19 | 6/20/2022 | Concrete | Endwall | 18 | Good | Fair | Stone endwall with 18- inch concrete pipe set back in endwall. Natural rounded boulders channel cut by erosion. | Erosion Control | No | -- | -- | -72.9021301 | 41.83443645 |
| OF-18 | 6/20/2022 | Concrete | Endwall | 18 | Good | Fair | 18- inch concrete pipe, dry, no sediment, discharge adjacent to OF-23 . Drainage swale, covered stone box drain. Discharges to outfall OF-19. | Erosion Control | No | -- | -- | -72.90204925 | 41.83450338 |
| OF-20 | 6/20/2022 | Concrete | Other | 18 | Fair | Poor | 18 -inch concrete pipe, sediment channel cut by erosion. | Maintenance and Erosion Control | No | -- | -- | -72.90388995 | 41.83415151 |
| OF-20 | 6/20/2022 | Concrete | Other | 18 | Fair | Poor | 18 -inch concrete pipe, 1/2 filled with sediment, and sediment channel cut by erosion. | Maintenance and Erosion Control | No | -- | -- | -72.90387283 | 41.83421557 |
| OF-22 | 6/20/2022 | Concrete | Endwall | 24 | Good | Good | 24- inch. Stormwater flow received from catch basin on road. | No | No | -- | -- | -72.90392673 | 41.83347932 |
| OF-21 | 6/20/2022 | Concrete | Other | 18 | Fair | Poor | Surface discharge to 18- inch culvert stream clear flow discharge to OF-23. | Maintenance and Erosion Control | No | -- | -- | -72.90373808 | 41.83362657 |
| OF-160 | 6/20/2022 | Unknown | Unknown | Unknown | Poor | Poor | Covered pipe not visible, surface water would flow in sediment channel along road. | Maintenance and Erosion Control | No | -- | -- | -72.87884576 | 41.83551403 |
| OF-162 | -- | -- | -- | -- | -- | -- | Bridge over top of stream. No culvert or outfall. | -- | No | -- | -- | -72.88156766 | 41.83778961 |
| OF-161 | -- | -- | -- | -- | -- | -- | Bridge over top of stream. No culvert or outfall. | -- | No | -- | -- | -72.88177427 | 41.83769592 |
| OF-159 | 6/20/2022 | Corrugated Steel | Endwall | 18 | Fair | Poor | 18- inch corrugated steel pipe with mortared stone end wall, dry, receives surface runoff from road. | Maintenance and Erosion Control | No | -- | -- | -72.87869305 | 41.83566128 |

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| OF-166 | 6/20/2022 | Concrete | Endwall | 18 | Poor | Poor | 18 -inch corrugated steel pipe with mortared stone end wall, dry, receives surface runoff from road. Filled with sediment dry. | Maintenance and Erosion Control | No | -- | -- | -72.88883503 | 41.84037297 |
| OF-165 | 6/20/2022 | Concrete | Endwall | 18 | Fair | Poor | Culvert, Stone Endwall with 18- inch concrete pipe, half filled with sediment. | Maintenance and Erosion Control | No | -- | -- | -72.8886913 | 41.84045998 |
| OF-163 | 6/20/2022 | Precast | Endwall | 24 | Poor | Fair | 18 -inch corrugated steel pipe with mortared stone end wall dry, receives surface runoff from road, crosses road to location OF-164. | Maintenance and Erosion Control | No | -- | -- | -72.88978724 | 41.84078791 |
| OF-164 | 6/20/2022 | Stone | Endwall | 24 | Poor | Poor | From stone endwall filled in with soil. aA clay pip extends approximately 5 feet out from end wall into standing water. | Maintenance and Erosion Control | No | -- | -- | -72.88977826 | 41.84070091 |
| OF-169 | 6/20/2022 | Concrete | Endwall | 18 | Good | Good | 18- inch corrugated steel pipe with mortared stone end wall, dry, receives surface runoff from road. | No | No | -- | -- | -72.89369492 | 41.84090168 |
| OF-167 | 6/20/2022 | Concrete | Endwall | 18 | Poor | Fair | Stone headwall with concrete pipe half filled with soil. Channel contains wood chips. | Maintenance and Erosion Control | No | -- | -- | -72.89364102 | 41.84103553 |
| OF-169 | 6/20/2022 | Precast | Endwall | 18 | Fair | Fair | 18- inch corrugated steel pipe with mortared stone end wall, dry, receives surface runoff from road. Filled with sediment. Entering pipe headwall crosses road to OF-70. | Maintenance and Erosion Control | No | -- | -- | -72.89923752 | 41.84432812 |

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| OF-170 | 6/20/2022 | Concrete | Endwall | 18 | Good | Fair | Stone Endwall with 18 - inch concrete pipe, some natural rounded boulders below pipe discharge, standing water puddle and sediment eroded channel. Heavily overgrown around endwall. | Erosion Control | No | -- | -- | -72.8993004 | 41.84425451 |
| OF-56 | 6/20/2022 | Corrugated Steel | Other | 48 | Good | Good | Entrance of stream flowing through culvert. Corrugated steel, 48 - inches, some riprap. | No | No | -- | -- | -72.90069279 | 41.84646286 |
| OF-33 | 6/20/2022 | Precast | Flared End | 30 | Excellent | Good | 30- inch precast with flared end. | No | No | -- | -- | -72.90092635 | 41.8451847 |
| OF-38 | 6/20/2022 | Corrugated Steel | Other | 24 | Good | Good | Exit of stream flowing through 24- inch corrugated steel. Culvert, some riprap. | No | No | -- | -- | -72.90071974 | 41.84637587 |
| OF-172 | 6/20/2022 | HDPE | Other | 24 | Good | Good | Corrugated HDPE pipe entrance to surface water flowing under road. Downward sloping stream with riprap leading into pipe. | No | No | -- | -- | -72.89986634 | 41.84704505 |
| OF-171 | 6/20/2022 | HDPE | Flared End | 24 | Excellent | Good | 24 hdpe receives water from catch basins. 6-inch inner pipe. | No | No | -- | -- | -72.90001905 | 41.84705174 |
| OF-192 | 6/20/2022 | Precast | Endwall | 48 | Excellent | Good | Concrete discharge continuous flow, foam on surface, no odor, large boulder below plunge pool. | No | Yes | Steady | Clear, foam on surface, no odor, steady flow 3-5 gpa | -72.89013759 | 41.85975153 |
| OF-191 | 6/20/2022 | Precast | Endwall | 36 | Excellent | Good | Inflow pipe is concrete. | No | No | -- | -- | -72.89051488 | 41.85980505 |
| OF-190 | 6/20/2022 | -- | -- | -- | -- | -- | No outfall observed/not located. | -- | No | -- | -- | -72.89010165 | 41.85979167 |
| OF-23 | 6/20/2022 | Concrete | Endwall | 18 | Good | Fair | Endwall concrete 18 -inch pipe, parallel to OF-24. | Erosion Control | No | -- | -- | -72.90247146 | 41.83239501 |
| OF-187 | 6/21/2022 | Concrete | Endwall | 18 | Good | Good | Concrete block endwall, 18 -inch concrete pipe, discharging into a steam. | No | No | -- | -- | -72.88476566 | 41.84830979 |

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|------------|-----------------|----------|------------|-------------------|-----------|-----------------|---|--|--------------------|-----------------------------|-------------------------------|--------------|-------------|
| OF-186 | 6/21/2022 | Concrete | Endwall | 18 | Good | Good | 18-inch concrete adjacent to stream culvert. | No | No | -- | -- | -72.88489143 | 41.84839009 |
| OF-184 | 6/21/2022 | Precast | Endwall | 60 | Good | Good | 60- inch corrugated steel, stream culvert with masonry boulder end wall. | No | No | -- | -- | -72.88470278 | 41.84845032 |
| OF-185 | 6/21/2022 | stone | Endwall | 72 | Good | Good | Culvert under a road ending in stone endwall, 72- inch corrugated metal pipe. | No | No | -- | -- | -72.88484651 | 41.84830979 |
| OF-183 | 6/21/2022 | HDPE | Flared End | 16 | Good | Good | Flared end HDPE pipe, 16- inch exterior, 14- inch interior. Sticking out from an embankment. There is riprap down embankment. | No | No | -- | -- | -72.88587059 | 41.84980202 |
| OF-180 | 6/21/2022 | Plastic | Endwall | 18 | Good | Good | In concrete block end wall, 18- inch concrete pipe discharges into stream. Riprap and natural stream rocks are present. | No | No | -- | -- | -72.8868767 | 41.8522979 |
| OF-179 | 6/21/2022 | Concrete | Endwall | 30 | Good | Good | 30-inch concrete end wall stream culvert. End wall concrete block mortared. | No | No | -- | -- | -72.8871423 | 41.85225869 |
| Unknown-1 | 6/21/2022 | HDPE | Flared End | 16 | Good | Fair | HDPE pipe discharge from catch basin onto dried up shallow ditch. Previously flaredend (cut on angle), no cut straight. Scrap flared end piece still located near pipe. | No | No | -- | -- | -72.88755623 | 41.85355674 |
| OF-178 | 6/21/2022 | Concrete | Flared End | 18 | Good | Good | 18- inch flared end. | No | | -- | -- | -72.88684077 | 41.85600475 |
| OF-176 | 6/21/2022 | HDPE | Flared End | 16 | Good | Good | HDPE 16 -inch pipe runs under road, protruding from sloping terrain down from the road. Discharging into a rip rap and partially dried up channel . | No | Yes | -- | -- | -72.88737078 | 41.85704852 |
| OF-175 | 6/21/2022 | HDPE | Flared End | 16 | Good | Good | 16- inch hdpe pipe , culvert for stream. | No | No | -- | -- | -72.88751451 | 41.85699499 |
| OF-174 | 6/21/2022 | Concrete | Endwall | 18 | Good | Good | Concrete head wall culvert | No | No | -- | -- | -72.88807146 | 41.85881486 |

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| OF-183 | 6/21/2022 | Concrete | Endwall | 18 | Poor | Good | Stone Endwall with two 18 -inch concrete pipes discharging into a stream. Broken pieces of endwall lay in front and below the pipes. | Maintenance | Yes | -- | -- | -72.88791875 | 41.85876133 |
| OF-189 | 6/21/2022 | Concrete | Endwall | 18 | Fair | Fair | 18 -inch concrete pipe , cast in place end wall, dry, 1/4 full with debris. | Maintenance and Erosion Control | No | -- | -- | -72.88626585 | 41.86002584 |
| OF-188 | 6/21/2022 | Concrete | Endwall | 24 | Good | Good | Concrete block and wall with 24 -inch concrete pipe, discharging into pond. | No | No | -- | -- | -72.8859694 | 41.86007936 |
| OF-196 | 6/21/2022 | Concrete | Flared End | 30 | Good | Good | 30- inch concrete culvert, mortared stone end wall. | No | No | -- | -- | -72.88077714 | 41.8659533 |
| OF-197 | 6/21/2022 | Concrete | Endwall | 30 | Good | Good | Headwall to culvert, stream runs under road. 30 -inch concrete pipe entrance to stream water. | No | No | -- | -- | -72.88082206 | 41.86580612 |
| OF-194 | 6/21/2022 | Precast | Endwall | 60 | Good | Good | Mortared stone end wall, corrugated metal pipe stream culvert. | No | No | -- | -- | -72.87681557 | 41.86864256 |
| OF-193 | 6/21/2022 | Stone | Endwall | 60 | Good | Good | Culvert, stone and wall, approximately 60 -inch corrugated metal pipe, discharging into stream. | No | No | -- | -- | -72.87658201 | 41.86856228 |
| OF-195 | 6/21/2022 | Concrete | Other | Unknown | Fair | Good | Stone lined square ditch with concrete pipe (of uncertain size) mostly covered by debris. | Maintenance | No | -- | -- | -72.87811813 | 41.86708387 |
| OF-200 | 6/21/2022 | Concrete | Flared End | 18 | Good | Fair | Concrete flared and pipe at bottom of sloping terrain down from road the road. | Erosion Control | No | -- | -- | -72.88493634 | 41.8707698 |
| OF-201 | 6/21/2022 | Unknown | Other | Unknown | Poor | Unknown | Discharge end covered, not observed. | Maintenance and Erosion Control | No | -- | -- | -72.88454108 | 41.86708387 |
| OF-198 | 6/21/2022 | Concrete | Flared End | 30 | Good | Good | Concrete stream culvert. | No | No | -- | -- | -72.88260072 | 41.87188021 |
| OF-199 | 6/21/2022 | Concrete | Flared End | 30 | Good | Good | Concrete, flared end, 30 -inch pipe that runs under road. | No | No | -- | -- | -72.8826097 | 41.87165278 |
| OF-203 | 6/21/2022 | Concrete | Flared End | 24 | Good | Good | 24 -inch concrete, flared end. | No | No | -- | -- | -72.88852062 | 41.8688031 |

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| OF-202 | 6/21/2022 | Concrete | Flared End | 24 | Poor | Good | Half filled in. Concrete, flared end, 24- inch pipe that runs under road. Rip rap present and discharges into stream that is currently standing water. | Maintenance and Erosion Control | No | -- | -- | -72.88833197 | 41.86877635 |
| OF-204 | 6/21/2022 | Concrete | Flared End | 16 | Good | Good | Concrete, flared end. Deadend road discharges to wooded area. | No | No | -- | -- | -72.89065861 | 41.87085007 |
| OF-205 | -- | -- | -- | -- | -- | -- | Could not locate. | -- | No | -- | -- | -72.8885835 | 41.86686311 |
| OF-211 | 6/21/2022 | Clay | Endwall | 12 | Poor | Poor | 12 -inch clay pipe cracked, half full of sediment. Stone stacked headwall. | Maintenance and Erosion Control | No | -- | -- | -72.89261694 | 41.86374562 |
| OF-210 | 6/21/2022 | Concrete | Other | Unknown | Poor | Poor | 95% sediment filled, concrete pipe. | Maintenance and Erosion Control | No | -- | -- | -72.89651563 | 41.8633576 |
| OF-209 | 6/21/2022 | Concrete | Other | 14 | Poor | Poor | Concrete. 100% filled with leaves and sediment. | Maintenance and Erosion Control | No | -- | -- | -72.89777327 | 41.86364527 |
| OF-135 | 6/21/2022 | Clay | Endwall | 23 | Fair | Fair | 23 -inch clay pipe in stone end wall, (6- inch pvc pipe entering catch basin). Discharges into stream that leads to Collinsville dam. | Maintenance and Erosion Control | No | -- | -- | -72.92685173 | 41.81145482 |
| OF-139 | 6/21/2022 | Stone | Endwall | -- | Good | Good | Stone culvert, stream runs under road, no pipe. | No | No | -- | -- | -72.92638461 | 41.81232524 |
| OF-138 | 6/21/2022 | Stone | Other | 30 | Fair | Good | 30 by 36 stone box culvert, stream crossing . | Maintenance | No | -- | -- | -72.92654631 | 41.81239219 |
| OF-134 | 6/21/2022 | Concrete | Endwall | Unknown | Poor | Poor | Concrete end wall, stream culvert pipe filled 80%. | Maintenance and Erosion Control | No | -- | -- | -72.93228654 | 41.82161783 |
| OF-221 | 6/21/2022 | Concrete | Endwall | Unknown | Poor | Poor | Pipe in headwall, stream flows into pipe to cross under road. 70% filled with debris and leaves. | Maintenance and Erosion Control | No | -- | -- | -72.93229552 | 41.82161783 |
| OF-219 | 6/21/2022 | Concrete | Endwall | 30 | Fair | Fair | 30 -inch concrete pipe culvert, stream enters here and flows under road. Water that enters is reddish with iron. | Maintenance and Erosion Control | No | -- | -- | -72.93068754 | 41.82103541 |
| OF-220 | 6/21/2022 | Concrete | Endwall | 24 | Good | Good | Stream culvert. | No | No | -- | -- | -72.93060669 | 41.82094168 |

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| OF-212 | 6/21/2022 | Concrete | Endwall | 16 | Fair | Good | 16- inch concrete pipe at head wall. Surface water enters here and runs under road. Rocks partly block the pipe, and bottom is filled with approximately 20% of sediment. | Maintenance | No | -- | -- | -72.93013058 | 41.82452316 |
| OF-128 | 6/21/2022 | HDPE | Flared End | 10 | Excellent | Good | 18 -inch pipe discharge to rocky drainage swale. | No | No | -- | -- | -72.92962753 | 41.82430895 |
| OF-212 | 6/21/2022 | Concrete | Endwall | 18 | Fair | Fair | Not attached to catch basin. Appears to be diverted via hdpe pipe along road to additional catch basins. 18-inch concrete pipe, mortared stone end wall , pipe end half full. | Maintenance and Erosion Control | No | -- | -- | -72.93013058 | 41.82452316 |
| OF-130 | 6/21/2022 | HDPE | Flared End | 16 | Good | Good | HDPE angularly cut pipe discharges off slope onto boulders. | No | No | -- | -- | -72.93055279 | 41.82562099 |
| OF-124 | 6/21/2022 | Concrete | Flared End | 30 | Good | Fair | Concrete flared end, 30 - inch pipe | Erosion Control | No | -- | -- | -72.93057076 | 41.83208042 |
| OF-123 | 6/21/2022 | Concrete | Flared End | 18 | Good | Good | 18- inch concrete pipe receive storm water from road basins and discharges to wet area. | No | No | -- | -- | -72.92971736 | 41.83054762 |
| OF-122 | 6/21/2022 | Concrete | Other | 16 | Fair | Fair | 16 -inch concrete pipe. Standing water in front of pipe. | Maintenance and Erosion Control | No | -- | -- | -72.93219671 | 41.83509906 |
| OF-121 | 6/21/2022 | Concrete | Flared End | 16 | Good | Good | Dry, low area yard drain, discharge to low, wet area at OF-122. | No | No | -- | -- | -72.93255603 | 41.83524631 |
| OF-127 | 6/21/2022 | Corrugated Steel | Endwall | 16 | Good | Good | Corrugated metal pipe exiting concrete bridge wall. | No | No | -- | -- | -72.92821717 | 41.82440267 |
| OF-223 | 6/21/2022 | Concrete | Other | 20 | Good | Good | 20 -inch concrete pipe on steeply sloping terrain down from road, riprap present. | No | No | -- | -- | -72.9324123 | 41.82538001 |
| OF-131 | 6/21/2022 | Concrete | Other | 18 | Fair | Poor | End section dislodged due to erosion . Receives storm water from 4 basins. | Maintenance | No | -- | -- | -72.93282553 | 41.82712044 |

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| OF-133 | 6/21/2022 | Concrete | Endwall | 18 | Good | Good | 18 -inch concrete outfall. Cement block endwall. | No | No | -- | -- | -72.93366096 | 41.82173833 |
| OF-214 | 6/21/2022 | HDPE | Other | 12 | Good | Good | 12- Inch HDPE pipe where surface water enters (from residential pvc pipes) to go under the road. | No | No | -- | -- | -72.93381368 | 41.8167106 |
| OF-215 | 6/21/2022 | Concrete | Other | 18 | Poor | Poor | Pipe extends 50 -feet behind house -2 sections disconnected. | Maintenance and Erosion Control | No | -- | -- | -72.93340943 | 41.81661017 |
| OF-142 | 6/21/2022 | Plastic | Endwall | 16 | Good | Good | Corrugated plastic pipe, set in concrete box drain. | No | No | -- | -- | -72.92797463 | 41.81413967 |
| OF-143 | 6/21/2022 | Concrete | headwall | 20 | Good | Good | Concrete drain cast in place headwall, flow received from box drain from across road. | No | No | -- | -- | -72.92791174 | 41.81402586 |
| OF-140 | 6/21/2022 | Concrete | Endwall | 18 | Good | Good | Concrete endwall with concrete 18- inch pipe, natural cobble sized rocks leading down slope. | No | No | -- | -- | -72.92858548 | 41.81303495 |
| OF-137 | 6/21/2022 | Concrete | Endwall | 18 | Good | Good | 18 -inch concrete endwall, discharges to Farmington river. | No | No | -- | -- | -72.92578274 | 41.8091783 |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



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|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
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| Outfall ID | |
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PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



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| Outfall ID | |
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| OF-6 |  |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
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| Outfall ID | |
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| OF-9 |  Two photographs showing an outfall pipe opening in a wooded area. The pipe is a dark, circular opening in a concrete or stone structure, surrounded by dense green foliage and trees. The top photo shows the pipe from a slightly higher angle, while the bottom photo shows it from a slightly lower angle, both capturing the surrounding natural environment. |

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| Outfall ID | | |
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| OF-26 |  |  |
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| Outfall ID | |
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| OF-27 |   |

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| Outfall ID | |
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| OF-29 |  <p>The first photograph shows a close-up of a dark, circular pipe opening in a wooded area, surrounded by fallen leaves and green vegetation. A thin vertical pole is placed next to the pipe for scale. The second photograph shows a wider view of the same pipe opening, which is partially obscured by a large pile of dark mulch or debris in the foreground. The background consists of trees and a grassy area.</p> |

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| Outfall ID | |
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| OF-28 | <p>The photographs show an outfall site with a black pipe or structure in a wooded area. The top photo shows a close-up of the pipe surrounded by green vegetation. The middle photo shows the pipe from a wider angle, with a tree trunk on the left. The bottom photo shows the pipe with a red and white striped marker and a blue marker nearby on the ground.</p> |

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| Outfall ID | |
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| OF-30 |    |

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| Outfall ID | |
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| OF-14 |   |

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| Outfall ID | |
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| OF-60 |  |

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| Outfall ID | |
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| OF-24 |  |

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| Outfall ID | |
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| OF-24 |  <p>The photographic log for outfall OF-24 consists of three photographs. The top-left photo shows a stone structure with a flat wooden cover and a pipe opening. The top-right photo is a close-up of the pipe opening in the stone wall. The bottom photo shows a narrow concrete channel with a pipe opening at the end, surrounded by vegetation.</p> |

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| Outfall ID | |
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| OF-50 |  |

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| Outfall ID | |
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| OF-25 |  |

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| Outfall ID | |
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| OF-19 |  |

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| Outfall ID | |
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| OF-18 |    |

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| OF-20 |  |

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| Outfall ID | |
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| OF-160 |  <p>The photographs show an outfall area with dense green vegetation. The top photo shows a close-up of the plants. The middle photo shows a wider view of the area with a wooden post. The bottom photo shows a close-up of the plants and a rock.</p> |

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| Outfall ID | |
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| Outfall ID | |
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| OF-163 |  <p>The photographs show an outfall area with several large, light-colored rocks. The area is heavily vegetated with green grasses and weeds. In the top-left photo, a small stream of water flows over the rocks. The top-right photo shows a close-up of a rock with a concrete-like structure above it. The bottom photo shows a close-up of the rocks and vegetation, including a yellow flower in the foreground.</p> |

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| Outfall ID | |
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| OF-167 |  A photograph showing a concrete outfall pipe opening. The pipe is partially obscured by a large amount of debris, including leaves, twigs, and other organic matter, which appears to be blocking the flow. The pipe is set into a concrete structure. |

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| Outfall ID | |
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| OF-56 |  An underwater photograph showing a jellyfish with a glowing, translucent bell and long, thin tentacles. The jellyfish is illuminated from above, creating a bright spot on its bell. The surrounding water is dark, and there are some brown, fibrous structures (possibly seaweed or debris) visible in the foreground. |

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| Outfall ID | |
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| OF-33 |  A photograph showing a concrete outfall pipe opening into a stream. The pipe is partially submerged, and a thin, light-colored object (possibly a stick or probe) is visible extending into the dark water. The surrounding area is overgrown with green vegetation and some fallen leaves are scattered on the ground near the pipe. |

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| Outfall ID | |
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| OF-38 |   |

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| Outfall ID | |
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| OF-172 |   |

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| Outfall ID | |
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| OF-171 |  <p>The photographs show the condition of outfall OF-171. The top-left image is an interior view of a large, dark, corrugated metal pipe with a smaller pipe protruding from the center. The top-right image shows the exterior of the pipe opening, which is surrounded by a bed of grey rocks and green vegetation. The bottom image is a close-up of the pipe's interior, showing a vertical slot cut into the metal wall.</p> |

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| OF-192 |  |  |
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| Outfall ID | |
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| OF-23 |   |

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| Outfall ID | |
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| Outfall ID | |
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| OF-186 |   <p>The first photograph is a close-up view of a concrete outfall pipe. The pipe is circular and has a rough, weathered appearance. It is surrounded by a dense layer of brown, fallen leaves and some green ferns. The water is flowing out of the pipe, creating a small stream that flows over the rocks and leaves. The second photograph is a wider view of the same outfall pipe. The pipe is set into a concrete structure that is partially covered by grass and other vegetation. The water is flowing out of the pipe and is surrounded by a large amount of brown, fallen leaves and green ferns. The overall scene is a natural, somewhat overgrown area.</p> |

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| Outfall ID | |
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| OF-178 |  Two photographs showing an outfall structure. The top photo is a close-up view of a concrete pipe opening surrounded by dense green vegetation. The bottom photo is a wider view of the same structure, showing a small stream of water flowing over several large, grey, rounded stones in the foreground. A black pipe is visible on the right side of the structure. |

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| Outfall ID | |
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| OF-176 |  <p>The first photograph shows a black pipe partially obscured by dense green vegetation. The second photograph is a close-up of the pipe's opening, which is surrounded by a bed of grey and brown rocks. The third photograph shows the pipe from a wider perspective, situated in a rocky stream bed with surrounding greenery.</p> |

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| Outfall ID | |
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| OF-193 |  <p>The photographs show an outfall structure. The top image shows a stone wall with a circular opening. The middle image shows a corrugated metal pipe extending from the stone wall. The bottom image shows the pipe's exit into a stream, with water flowing over the pipe's edge.</p> |

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| Outfall ID | |
|-------------------|--|
| OF-195 |  <p>The photographs show an outfall structure for OF-195. The top image shows a wooden plank structure on a grassy bank next to a road. The middle image shows a similar structure from a different angle. The bottom image shows a stone structure with a large pile of leaves in front of it.</p> |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-200 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|


| Outfall ID | |
|-------------------|---|
| OF-201 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|--|
| OF-198 |  <p>The first photograph shows a close-up view of a concrete outfall pipe opening in a wooded area. The pipe is partially obscured by fallen branches and leaves. The second photograph shows a wider view of the same outfall pipe, which is surrounded by rocks and dense vegetation. The pipe appears to be made of concrete and is situated in a natural, wooded environment.</p> |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-199 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-203 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-202 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|



| Outfall ID | |
|-------------------|---|
| OF-204 |  |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-211 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-210 |  |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-209 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-135 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|--|
| OF-139 |  <p>The top photograph shows a stream flowing over a series of large, flat, grey rocks. A thick, weathered log is positioned diagonally across the stream, partially submerged. The surrounding area is lush with green vegetation, including ferns and other leafy plants. The bottom photograph provides a closer view of the stream's flow over the rocks, with the log still visible in the foreground. The water appears clear and is moving over the uneven surface of the rocks.</p> |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|--|
| OF-138 | <p>The first photograph shows a close-up view of a dark, rectangular opening in a concrete structure, surrounded by lush green vegetation and rocks. The second photograph shows a wider view of the same area, with dense green foliage and a concrete structure visible in the background.</p> |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|



| Outfall ID | |
|-------------------|--|
| OF-134 |  A photograph showing a concrete outfall pipe opening. The pipe is partially obscured by dense green vegetation. A bright orange and white striped marker is placed on the ground near the pipe opening. The surrounding area appears to be a natural, somewhat overgrown site. |

PHOTOGRAPHIC LOG

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290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|


| Outfall ID | |
|-------------------|---|
| OF-221 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-219 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-220 |  A photograph showing a concrete outfall pipe discharging into a stream. The pipe is partially obscured by a large, light-colored log. The water is dark and turbulent, with white foam visible at the discharge point. The surrounding area is rocky and overgrown with vegetation. |

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East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-212 |  |

PHOTOGRAPHIC LOG

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East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-128 |  |

PHOTOGRAPHIC LOG

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| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-212 |  |

PHOTOGRAPHIC LOG

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East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|




| Outfall ID | |
|-------------------|---|
| OF-130 | <p>The first photograph shows a close-up of a dark, circular pipe opening surrounded by rocks and green vegetation. The second photograph is a similar close-up from a slightly different angle. The third photograph is a wider shot showing the pipe opening in a wooded area with many trees and green plants.</p> |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
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| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-124 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
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| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-123 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
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| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-122 |  |

PHOTOGRAPHIC LOG

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| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|


| Outfall ID | |
|-------------------|---|
| OF-121 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|--|
| OF-127 |  <p>The first photograph shows a concrete structure next to a pond with trees reflected in the water. The second photograph is a close-up of a circular, corrugated metal opening in a concrete wall. The third photograph shows the structure in a wooded area with green foliage.</p> |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-223 |   |

PHOTOGRAPHIC LOG

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290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|


| Outfall ID | |
|-------------------|---|
| OF-131 |   |

PHOTOGRAPHIC LOG

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| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|--|
| OF-133 |  Two photographs showing a concrete outfall pipe. The pipe is circular and set into a concrete structure. The area around the pipe is overgrown with green plants and has a bed of rocks. A thin red string is used as a scale reference in the second photo. |

PHOTOGRAPHIC LOG

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East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-214 |    |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-215 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
290 Roberts Street, Suite 301
East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-142 |   |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
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East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-143 |  A photograph showing a rocky stream bed or outfall area. The ground is covered with numerous grey and brown rocks of various sizes. The surrounding area is densely populated with green vegetation, including tall grasses and leafy plants. The scene is captured from a slightly elevated angle, looking down into the stream bed. |

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
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East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-140 |  Three photographs showing different views of outfall OF-140. The top photo shows a concrete structure with a circular opening, partially obscured by green vegetation. The middle photo is a closer view of the opening, showing the surrounding ground and plants. The bottom photo is a top-down view of the circular opening, showing the dark interior of the pipe. |

PHOTOGRAPHIC LOG

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East Hartford, CT 06108



| | | |
|--|---|-----------------------------|
| Client Name: <i>Town of Canton</i> | Site Location: <i>Town of Canton MS4 Outfalls-Dry Weather Inspections</i> | Date: <i>2022</i> |
|--|---|-----------------------------|

| Outfall ID | |
|-------------------|---|
| OF-137 |   |

ATTACHMENT III

Town of Canton MS4 Dry Weather Sampling *Analytical Results*

| Outfall ID | Inspection Date | Condition | Discharge Description | Screening Indicators | | | | | | |
|------------|-----------------|-----------|--|----------------------|---------------------|-------|--------------|----------|------------------|-----------------|
| | | | | Chlorine Residual | Ammonia as Nitrogen | MBAS | Conductivity | Salinity | Escherichia Coli | Total Coliforms |
| | | | | mg/L | | | umhos/cm | ppt | MPN/100mL | |
| OF-26 | 6/20/22 | Good | Clear flow, iron staining | <0.02 | <0.05 | <0.05 | 378 | <0.5 | <10 | 529 |
| OF-192 | 6/20/22 | Excellent | Clear, foam on surface, no odor, steady flow 3-5 gpa | <0.02 | <0.05 | <0.05 | 240 | <0.5 | 309 | 5,790 |

| Notes: |
|---|
| <p>* All highlighted bacterial concentrations are required for follow-up investigations. *Highlighting is based on the following criteria;</p> <ol style="list-style-type: none"> 1. E. Coli >235/100mL for Swimming Areas, and >410 col/100mL for all others. 2. Total Coliform > 500 col/100mL 3. Fecal Coliform >31 col/100 mL for Class SA and >260 col/100mL for Class SB 4. Enterococci >104 col/100mL for Swimming Areas and >500 col/100mL for all others. 5. Ammonia >0.5 mg/L 6. Surfactants (MBAS) > 0.25 mg/L 7. Chlorine: detectable level 8. Conductivity >1,500 uS 9. Salinity ≥ 0.5 ppt |



Thursday, July 14, 2022

Attn: Kay Lehoux
ATC Associates
290 Roberts St., Suite 301
East Hartford, CT 06108

Project ID: CANTON
SDG ID: GCL59985
Sample ID#s: CL59985 - CL59986

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

July 14, 2022

SDG I.D.: GCL59985

Reported Total Coliform



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

July 14, 2022

SDG I.D.: GCL59985

Project ID: CANTON

| Client Id | Lab Id | Matrix |
|-----------|---------|---------------|
| OF-26 | CL59985 | SURFACE WATER |
| OF-192 | CL59986 | SURFACE WATER |



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 14, 2022

FOR: Attn: Kay Lehoux
 ATC Associates
 290 Roberts St., Suite 301
 East Hartford, CT 06108

Sample Information

Matrix: SURFACE WATER
 Location Code: ATC-EHDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

06/20/22
 06/20/22

Time

10:20
 16:45

Laboratory Data

SDG ID: GCL59985
 Phoenix ID: CL59985

Project ID: CANTON
 Client ID: OF-26

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---------------------|--------|------------|-------------|----------|----------------|-------|---------------|
| Escherichia Coli | <10 | 10 | MPN/100 mls | 10 | 06/20/22 18:00 | GS/LJ | SM9223B-16 |
| Total Coliforms | 529 | 10 | MPN/100 mls | 10 | 06/20/22 18:00 | GS/DT | SW9223B-16 |
| Chlorine Residual | < 0.02 | 0.02 | mg/L | 1 | 06/20/22 18:35 | AKS | SM4500CI-G-00 |
| Conductivity | 378 | 5.00 | umhos/cm | 1 | 06/20/22 | MW/EG | SM2510B-11 |
| MBAS | < 0.05 | 0.05 | mg/L | 1 | 06/20/22 20:46 | AKS | SM5540 C-11 |
| Ammonia as Nitrogen | < 0.05 | 0.05 | mg/L | 1 | 06/23/22 | KDB | E350.1 |
| Salinity | < 0.5 | 0.5 | ppt | 1 | 06/20/22 | PK | SM2520B-10 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 14, 2022

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 14, 2022

FOR: Attn: Kay Lehoux
 ATC Associates
 290 Roberts St., Suite 301
 East Hartford, CT 06108

Sample Information

Matrix: SURFACE WATER
 Location Code: ATC-EHDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

06/20/22
 06/20/22

Time

15:40
 16:45

Laboratory Data

SDG ID: GCL59985
 Phoenix ID: CL59986

Project ID: CANTON
 Client ID: OF-192

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|---------------------|--------|------------|-------------|----------|----------------|-------|---------------|
| Escherichia Coli | 309 | 10 | MPN/100 mls | 10 | 06/20/22 18:00 | GS/LJ | SM9223B-16 |
| Total Coliforms | 5790 | 10 | MPN/100 mls | 10 | 06/20/22 18:00 | GS/DT | SW9223B-16 |
| Chlorine Residual | < 0.02 | 0.02 | mg/L | 1 | 06/20/22 18:36 | AKS | SM4500CI-G-00 |
| Conductivity | 240 | 5.00 | umhos/cm | 1 | 06/20/22 | MW/EG | SM2510B-11 |
| MBAS | < 0.05 | 0.05 | mg/L | 1 | 06/20/22 20:47 | AKS | SM5540 C-11 |
| Ammonia as Nitrogen | < 0.05 | 0.05 | mg/L | 1 | 06/23/22 | KDB | E350.1 |
| Salinity | < 0.5 | 0.5 | ppt | 1 | 06/20/22 | PK | SM2520B-10 |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 14, 2022

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 14, 2022

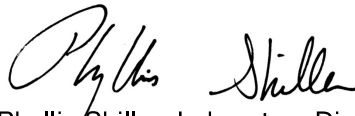
QA/QC Data

SDG I.D.: GCL59985

| Parameter | Blank | Blk RL | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|-------|-----------|------------------|---------------|------------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 629806 (umhos/cm), QC Sample No: CL59845 (CL59985, CL59986) | | | | | | | | | | | | | |
| Conductivity | BRL | 5.00 | 163 | 163 | 0 | 95.6 | | | | | | 85 - 115 | 20 |
| Comment: Additional criteria matrix spike acceptance range is 75-125%. | | | | | | | | | | | | | |
| QA/QC Batch 629766 (mg/L), QC Sample No: CL59985 (CL59985, CL59986) | | | | | | | | | | | | | |
| MBAS | BRL | 0.05 | <0.05 | <0.05 | NC | 90.4 | | | 88.2 | | | 85 - 115 | 20 |
| Comment: Additional criteria matrix spike acceptance range is 75-125%. | | | | | | | | | | | | | |
| QA/QC Batch 629990 (mg/L), QC Sample No: CL59073 (CL59985, CL59986) | | | | | | | | | | | | | |
| Ammonia as Nitrogen | BRL | 0.05 | <0.10 | <0.10 | NC | 99.0 | | | 98.0 | | | 90 - 110 | 20 |
| QA/QC Batch 629747 (mg/L), QC Sample No: CL59608 (CL59985, CL59986) | | | | | | | | | | | | | |
| Chlorine Residual | BRL | 0.02 | <0.02 | <0.02 | NC | 97.9 | | | | | | | |

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 July 14, 2022

Thursday, July 14, 2022

Criteria: CT: GWP

State: CT

Sample Criteria Exceedances Report

GCL59985 - ATC-EHDAS

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL | Criteria | Analysis Units |
|--------|-------|-----------------|----------|--------|----|----------|----|----------|----------------|
|--------|-------|-----------------|----------|--------|----|----------|----|----------|----------------|

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: ATC Associates

Project Location: CANTON

Project Number:

Laboratory Sample ID(s): CL59985, CL59986

Sampling Date(s): 6/20/2022

List RCP Methods Used (e.g., 8260, 8270, et cetera) None

| | | |
|----|---|--|
| 1 | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 1A | Were the method specified preservation and holding time requirements met? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 1B | <u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods) | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA |
| 2 | Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3 | Were samples received at an appropriate temperature (< 6 Degrees C)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA |
| 4 | Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5 | a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6 | For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 7 | Are project-specific matrix spikes and laboratory duplicates included in the data set? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Thursday, July 14, 2022

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 14, 2022

SDG I.D.: GCL59985

SDG Comments

Temperature above 6C:

The samples were received in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection. Therefore no significant bias is suspected.

No RCP analyses are included with this report. The RCP narrative is provided at the request of the client.

Wet Chemistry Analysis

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

BECKMAN DU720 06/20/22-1 Shawn Akomeah, Chemist 06/20/22

CL59985 , CL59986

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 629806 (CL59845)

CL59985, CL59986

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

QC (Site Specific):

Batch 629766 (CL59985)

CL59985, CL59986

All LCS recoveries were within 85 - 115 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

NITROGEN

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 06/23/22-1 Kandi Della Bella, Chemist 06/23/22

CL59985 , CL59986

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 629990 (CL59073)

CL59985, CL59986

All LCS recoveries were within 85 - 115 with the following exceptions: None.



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RCP Certification Report

July 14, 2022

SDG I.D.: GCL59985

NITROGEN

Additional criteria: LCS acceptance range for waters is 85-115% and for soils is 75-125%. MS acceptance range is 75-125%.

Temperature Narration

The samples were received at 9.1C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726

Coolant: IPK ICE No No
 Temp °C Pg of

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: kay.lehoux@oneatlas.com

Project P.O.: _____

Project: Canton

Report to: Kay Lehoux

Invoice to: Atlas

QUOTE # CTDAS

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Samplers Signature _____ Date: _____

Matrix Code: Water GW=Ground Water SW=Surface Water WW=Waste Water
 BW=Drinking Water PL=Leachate SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil-Oil
 B=Bulk L=Liquid

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled |
|---------------------------|--------------------------------|---------------|--------------|--------------|
| 59985 | OF-26 | SW | 6/20/22 | 10:20 |
| 59986 | OF-192 | SW | 6/20/22 | 15:40 |

Analysis Request

| Analysis Request | Chlorine | Conductivity | Salinity | E.Coli Total Coli | Turbidity |
|--------------------------------------|----------|--------------|----------|-------------------|-----------|
| GL Amber 8 oz. WH3PO4 | X | X | X | X | |
| GL Amber 400ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 700ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 1250ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 250ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 1000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 1500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 2000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 2500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 3000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 3500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 4000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 4500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 5000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 5500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 6000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 6500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 7000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 7500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 8000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 8500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 9000ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 9500ml Val. [As Is] X1 HCl | X | X | X | X | |
| GL Amber 10000ml Val. [As Is] X1 HCl | X | X | X | X | |

Relinquished by: *[Signature]*

Accepted by: *[Signature]*

Date: 6/20/22

Time: 16:45

RI: Direct Exposure (Residential) GW Other

CT: RCP Cert GW Protection SW Protection GA Mobility GB Mobility Residential DEC I/C DEC Other

MA: MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-3 MWRA eSMART Other

Data Format: Excel PDF GIS/Key EQUIS Other

Data Package: Tier II Checklist Full Data Package* Phoenix Std Report Other

Comments, Special Requirements or Regulations:

CTDAS Rates

Turnaround: 1 Day* 2 Days* 3 Days* Standard Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES

ATTACHMENT IV

Farmington River Watershed Association
(FRWA)

Town of Canton:

2022 Bacteria Sampling

| ID | Sampling Date | Latitude | Longitude | Proximity to Location | Landmark/Facility Name | Bacterial | |
|---------|---------------|----------|------------|-----------------------|--|-------------------|-----------------|
| | | | | | | Escheriachia Coli | Total Coliforms |
| | | | | | | MPN/100mL | |
| CB-28 | 6/6/2022 | 41.83616 | -72.929891 | ds | Rt 44 | 53.6 | 913.9 |
| | 6/20/2022 | | | | | 44.3 | 1732.9 |
| | 7/11/2022 | | | | | 53.8 | 2419.6 |
| | 7/25/2022 | | | | | 83.9 | >2419.6 |
| | 8/8/2022 | | | | | 816.4 | >2419.6 |
| | 8/22/2022 | | | | | 49.5 | >2419.6 |
| | 9/7/2022 | | | | | 1553.1 | >2419.6 |
| CB-1200 | 6/6/2022 | 41.84525 | -72.92519 | at | 84 cherry brook rd | 93.8 | 960.6 |
| | 6/21/2022 | | | | | 101.9 | 387.3 |
| | 7/11/2022 | | | | | 95.9 | 1986.3 |
| | 7/25/2022 | | | | | 63.8 | >2419.6 |
| | 8/8/2022 | | | | | 816.4 | >2419.6 |
| | 8/22/2022 | | | | | 88.2 | >2419.6 |
| | 9/7/2022 | | | | | 1732.9 | >2419.6 |
| CB-2330 | 6/6/2022 | 41.8531 | -72.92006 | ds | Humphrey Rd | 113.7 | 1011.2 |
| | 6/20/2022 | | | | | 86.2 | >2419.6 |
| | 7/11/2022 | | | | | 178.2 | 2419.6 |
| | 7/25/2022 | | | | | 115.3 | >2419.6 |
| | 8/8/2022 | | | | | 2419.6 | >2419.6 |
| | 8/22/2022 | | | | | 35.9 | >2419.6 |
| | 9/7/2022 | | | | | 1732.9 | >2419.6 |
| CB-3220 | 6/6/2022 | 41.85869 | -72.91335 | us | Barbourtown Rd | 196.8 | 1011.2 |
| | 6/20/2022 | | | | | 121.1 | >2419.6 |
| | 7/11/2022 | | | | | 79.4 | >2419.6 |
| | 7/25/2022 | | | | | 166.4 | >2419.6 |
| | 8/8/2022 | | | | | 1413.6 | >2419.6 |
| | 8/22/2022 | | | | | 108.6 | >2419.6 |
| | 9/7/2022 | | | | | 1413.6 | >2419.6 |
| BA-73 | 6/6/2022 | 41.86054 | -72.91323 | ds | Culvert on Barbourtown Rd at Jehovah's Witnesses of Canton | 85.7 | 1011.2 |
| | 6/20/2022 | | | | Barbourtown Rd | 60.2 | 1986.3 |
| | 7/11/2022 | | | | | 344.8 | >2419.6 |
| | 7/25/2022 | | | | | 365.4 | >2419.6 |
| | 8/8/2022 | | | | | 816.4 | >2419.6 |
| | 8/24/2022 | | | | | 2419.0 | >2419.6 |
| | 9/7/2022 | | | | | 1046.2 | >2419.6 |
| BA-2350 | 6/6/2022 | 41.87683 | -72.9239 | ds | Barbourtown Rd | 5.2 | 829.7 |
| | 6/20/2022 | | | | | 5.2 | 1413.6 |
| | 7/11/2022 | | | | | 13.4 | >2419.6 |
| | 7/25/2022 | | | | | 71.2 | >2419.6 |
| | 8/8/2022 | | | | | 1203.3 | >2419.6 |
| | 8/24/2022 | | | | | 2419.0 | >2419.6 |
| | 9/7/2022 | | | | | 1986.3 | >2419.6 |
| CB-5290 | 6/6/2022 | 41.87327 | -72.906293 | at | West Rd | 17.3 | 755.6 |
| | 6/20/2022 | | | | | 17.5 | 1413.6 |
| | 7/11/2022 | | | | | 816.4 | >2419.6 |
| | 7/25/2022 | | | | | 17.1 | >2419.6 |
| | 8/8/2022 | | | | | 517.2 | >2419.6 |
| | 8/22/2022 | | | | | 260.3 | >2419.6 |
| | 9/7/2022 | | | | | 770.1 | >2419.6 |
| CB-4140 | 6/6/2022 | 41.86497 | -72.90848 | ds | Meadow Rd | 416.0 | 960.6 |
| | 6/20/2022 | | | | | 214.3 | >2419.6 |
| | 7/11/2022 | | | | | 816.4 | >2419.6 |
| | 7/25/2022 | | | | | 1986.3 | >2419.6 |
| | 8/8/2022 | | | | | 2419.6 | >2419.6 |
| | 8/22/2022 | | | | | 2419.6 | >2419.6 |
| | 9/7/2022 | | | | | 1299.7 | >2419.6 |
| CB-8560 | 6/6/2022 | 41.89439 | -72.89397 | at | NCVFA Firehouse | 172.6 | 960.6 |
| | 6/20/2022 | | | | | 151.5 | 1732.9 |
| | 7/11/2022 | | | | | 155.3 | >2419.6 |
| | 7/25/2022 | | | | | 62.4 | >2419.6 |
| | 8/8/2022 | | | | | 1732.9 | >2419.6 |
| | 8/22/2022 | | | | | 54.5 | >2419.6 |
| | 9/7/2022 | | | | | 816.4 | >2419.6 |

Farmington River Watershed Association
(FRWA)

Town of Canton:
2022 Bacteria Sampling

| | | | | | | | |
|----------|-----------|----------|------------|----|------------------------|---------------|-------------------|
| SB-370 | 6/6/2022 | 41.89815 | -72.892739 | us | culvert at Church | 7.5 | 870.4 |
| | 6/20/2022 | | | | | 13.4 | 1299.7 |
| | 7/11/2022 | | | | | 10.9 | 1203.3 |
| | 7/25/2022 | | | | | 17.3 | >2419.6 |
| | 8/8/2022 | | | | | 79.8 | 1986.3 |
| | 8/22/2022 | | | | | 13.2 | >2419.6 |
| | 9/7/2022 | | | | | 1203.3 | >2419.6 |
| CB-10540 | 6/6/2022 | 41.90968 | -72.8992 | ds | Cherry Brook Rd RT 179 | 4.1 | 755.6 |
| | 6/20/2022 | | | | | 22.3 | >2419.6 |
| | 7/11/2022 | | | | | 77.1 | 2419.6 |
| | 7/25/2022 | | | | | 95.9 | >2419.6 |
| | 8/8/2022 | | | | | 135.4 | >2419.6 |
| | 8/22/2022 | | | | | 98.8 | >2419.6 |
| | 9/7/2022 | | | | | 816.4 | >2419.6 |
| UN-1050 | 6/6/2022 | 41.87618 | -72.89831 | us | Cherry Brook Rd RT 179 | 1.0 | 829.7 |
| | 6/20/2022 | | | | | 15.8 | 2419.6 |
| | 7/11/2022 | | | | | 7.5 | 2419.6 |
| | 7/25/2022 | | | | | 16.0 | >2419.6 |
| | 8/8/2022 | | | | | 1553.1 | >2419.6 |
| | 8/22/2022 | | | | | 98.8 | >2419.6 |
| | 9/7/2022 | | | | | 1413.6 | >2419.6 |

Notes:

* All highlighted bacterial concentrations are required for follow-up investigations at associated outfall.

*Highlighting is based on the following criteria;

1. E. Coli >235/100mL for Swimming Areas, and >410 col/100mL for all others.
2. Total Coliform > 500 col/100mL
3. Fecal Coliform >31 col/100 mL for Class SA and >260 col/100mL for Class SB
4. Enterococci >104 col/100mL for Swimming Areas and >500 col/100mL for all others.

*ds - downstream, us - upstream, at - At

**Farmington River Watershed Association
(FRWA)**

Town of Canton:
2022 Nutrient Sampling

| ID | Sampling Date | Latitude | Longitude | Nutrients | | | | | | |
|----------|---------------|-----------|------------|--------------|------------------------------------|----------------|--------------------------|------------------|----------------------------|-------------------------------|
| | | | | Ammonia as N | Nitrogen Oxides (NO _x) | Total Nitrogen | Total Dissolved Nitrogen | Total Phosphorus | Total Dissolved Phosphorus | Total Kjeldhal Nitrogen (TKN) |
| | | | | mg/L | | | | | | |
| CB-28 | 6/21/2022 | 41.836164 | -72.929891 | 0.007 | 0.385 | 0.446 | 0.413 | 0.018 | 0.022 | 0.061 |
| | 8/22/2022 | | | 0.004 | 0.501 | 0.562 | 0.540 | 0.016 | 0.011 | 0.061 |
| CB-1200 | 6/21/2022 | 41.84525 | -72.92519 | 0.017 | 0.358 | 0.425 | 0.419 | 0.017 | 0.018 | 0.067 |
| | 8/22/2022 | | | 0.006 | 0.454 | 0.519 | 0.495 | 0.016 | 0.006 | 0.065 |
| CB-2330 | 6/21/2022 | 41.8531 | -72.92006 | 0.029 | 0.354 | 0.444 | 0.42 | 0.02 | 0.014 | 0.09 |
| | 8/22/2022 | | | 0.025 | 0.560 | 0.707 | 0.659 | 0.015 | 0.012 | 0.147 |
| CB-3220 | 6/21/2022 | 41.85869 | -72.91335 | 0.045 | 0.338 | 0.418 | 0.4 | 0.02 | 0.013 | 0.08 |
| | 8/22/2022 | | | 0.011 | 0.950 | 1.030 | 1.030 | 0.016 | 0.010 | 0.080 |
| CB-4140 | 6/21/2022 | 41.86497 | -72.90848 | 0.012 | 0.308 | 0.39 | 0.362 | 0.012 | 0.011 | 0.082 |
| | 8/22/2022 | | | 0.268 | 0.066 | 1.080 | 0.872 | 0.064 | 0.023 | 1.014 |
| CB-5290 | 6/21/2022 | 41.873272 | -72.906293 | 0.005 | 0.235 | 0.301 | 0.302 | 0.013 | 0.011 | 0.066 |
| | 8/22/2022 | | | 0.007 | 0.201 | 0.259 | 0.262 | 0.013 | 0.013 | 0.058 |
| CB-8560 | 6/21/2022 | 41.89439 | -72.89397 | 0.019 | 0.219 | 0.317 | 0.31 | 0.017 | 0.013 | 0.098 |
| | 8/22/2022 | | | 0.172 | 0.014 | 0.287 | 0.271 | 0.029 | 0.018 | 0.273 |
| CB-10540 | 6/21/2022 | 41.90968 | -72.8992 | 0.006 | 0.354 | 0.463 | 0.385 | 0.019 | 0.012 | 0.109 |
| | 8/22/2022 | | | 0.012 | 1.845 | 1.910 | 1.830 | 0.014 | 0.012 | 0.065 |
| BA-73 | 6/21/2022 | 41.86054 | -72.91323 | 0.011 | 0.135 | 0.215 | 0.206 | 0.014 | 0.018 | 0.08 |
| BA-2350 | 6/21/2022 | 41.87683 | -72.9239 | 0.011 | 0.055 | 0.153 | 0.16 | 0.02 | 0.02 | 0.098 |
| SB-370 | 6/21/2022 | 41.898146 | -72.892739 | 0.009 | 0.144 | 0.288 | 0.257 | 0.022 | 0.016 | 0.144 |
| | 8/22/2022 | | | 0.003 | 0.483 | 0.600 | 0.550 | 0.035 | 0.015 | 0.117 |
| UN-1050 | 6/21/2022 | 41.87618 | -72.89831 | 0.009 | 0.433 | 0.486 | 0.497 | 0.012 | 0.014 | 0.053 |
| | 8/22/2022 | | | 0.010 | 0.458 | 0.498 | 0.482 | 0.015 | 0.012 | 0.040 |

| Notes: |
|---|
| * All highlighted bacterial concentrations are required for follow-up investigations at associated outfall. |
| *Highlighting is based on the following criteria; |
| 1. Ammonia: >0.5 mg/L |
| 2. Surfactants (MBAS): > 0.25 mg/L |
| 3. Chlorine: detectable level |
| 4. Conductivity: >1,500 uS |
| 5. Salinity: ≥ 0.5 ppt |
| 6.Total phosphorus > 0.3 mg/l |
| 7. Total nitrogen > 2.5 mg/l |

**Farmington River Watershed Association
(FRWA)**

Town of Canton:
2022 Chlorine Sampling

| ID | Sampling Date | Latitude | Longitude | Proximity to Location | Location Description | General Parameters | | | | | | | |
|---------|---------------|----------|-----------|-----------------------|-------------------------------------|--------------------|----------|----------------------|-------------------------------|----------------|-------------------------------|-----------------|---------------|
| | | | | | | Chloride (ppm) | NaCl (%) | Conductivity (uS/cm) | Specific Conductivity (uS/cm) | Salinity (psu) | Total Dissolved Solids (mg/L) | Turbidity (NTU) | Chlorine (mV) |
| BA-73 | 11/1/2022 | 41.86063 | -72.91324 | us | culvert on Barbourtown Rd | 25 | 0.004 | 97.3 | 124.8 | 0.06 | 81 | 0.4 | 141.5 |
| CB-3220 | 1/13/2022 | 41.85866 | -72.91343 | ds | Barbourtown Rd bridge by CBP School | 32 | 0.005 | -- | -- | -- | -- | -- | -- |
| | 1/19/2022 | 41.85866 | -72.91343 | ds | Barbourtown Rd bridge by CBP School | less | less | -- | -- | -- | -- | -- | -- |
| | 3/21/2022 | 41.85866 | -72.91343 | ds | Barbourtown Rd bridge by CBP School | less | less | 77.2 | 114.9 | 0.05 | 12,955.0 | 97.7 | |
| | 5/27/2022 | 41.85866 | -72.91343 | ds | Barbourtown Rd bridge by CBP School | less | 0.005 | 97.9 | 117 | 0.05 | 10,211.4 | 94.3 | 37 |
| | 6/22/2022 | 41.85866 | -72.91343 | ds | Barbourtown Rd bridge by CBP School | less | less | 101.5 | 123.7 | 0.06 | 9,852.2 | 87.9 | 22 |
| | 7/19/2022 | 41.85866 | -72.91343 | ds | Barbourtown Rd bridge by CBP School | 29 | 0.005 | 142.1 | 142.5 | 0.07 | 7,039.8 | 95.9 | 50 |
| | 8/16/2022 | 41.85866 | -72.91343 | ds | Barbourtown Rd bridge by CBP School | 43 | 0.007 | 216.2 | 236.2 | 0.11 | 4,625.8 | 114.2 | 69 |
| | 11/1/2022 | 41.85866 | -72.91343 | ds | Barbourtown Rd bridge by CBP School | 29 | 0.005 | 65.1 | 85.1 | 0.04 | 55.0 | 1.04 | 138.1 |
| JB-4120 | 1/13/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 65 | 0.011 | -- | -- | -- | -- | -- | -- |
| | 1/19/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 65 | 0.011 | -- | -- | -- | -- | -- | -- |
| | 3/21/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 65 | 0.011 | 219.1 | 315.8 | 0.15 | 4,565.0 | 98.6 | -- |
| | 5/27/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 87 | 0.014 | 328.5 | 392.3 | 0.19 | 3,044.2 | 93.8 | 131 |
| | 6/22/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 108 | 0.018 | 385.1 | 472.5 | 0.23 | 2,596.9 | 64 | 144 |
| | 7/19/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 108 | 0.018 | 425 | 434.4 | 0.21 | 2,352.7 | 89.7 | 113 |
| | 8/16/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 251 | 0.041 | 852.4 | 957.6 | 0.47 | 1,173.2 | 69.1 | 243 |
| | 11/1/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 290 | 0.048 | 891 | 1110 | 0.55 | 721.0 | 16.89 | 83.4 |
| | 11/14/2022 | 41.82165 | -72.88339 | at | Shops at Farmington Valley | 77 | 0.013 | 257.5 | 372.1 | 0.18 | 242.0 | 17.63 | 157.8 |

Notes:

*All highlighted bacterial concentrations are required for follow-up investigation at associated outfall.
 *Highlighting is based on the following criteria;
 1. Ammonia: >0.5 mg/L
 2. Surfactants (MBAS): >0.25 mg/L
 3. Chlorine: detectable level
 4. Conductivity: >1,500 uS
 5. Salinity: ≥ 0.5 ppt
 6. Turbidity: >5 NTU
 *ds - downstream, us - upstream, at - At



ATTACHMENT V

Town of Canton
2022 Catchment Assessment
and
Priority Ranking Matrix

| Catchment ID | Number of Outfalls Included | Receiving Water(s) | Previous Screening Results Indicate Likely Sewer Input? ¹ | 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 | Sewer Repair/Failure Nearby? | Urbanized Area | DCIA >11% ⁹ | Impaired Waterbody | Score | Priority Ranking Low Priority: 0-5 Problem: 6-9 High Priority: >10 | |
|---------------|-----------------------------|--|--|---|--|--|--|---|--|----------------------------|---------------------------------|---|------------------------------|---------------------------|------------------------|--------------------|-------|---|------------------|
| | | | Information Source | 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 Storm System Maps | Other | Municipal Staff, GIS Maps | CLEAR | CLEAR | | | CLEAR |
| | | | Scoring Criteria | Yes = 3 (Problem Catchment) No = 0 | 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 | Description | Yes=2 No=0 | Yes =1 No = 0 | Yes =1 No = 0 | | | Yes =1 No = 0 |
| 4309-00-1 | None | Cherry Brook | 0 | 0 | 0 | 0 | 1 | 3 | 0 | | 0 | Cleared Agricultural farmland with some residential housing | 0 | 0 | 0 | 0 | 4 | Low Priority | |
| 4319-11-1 | None | Unnamed stream | 0 | 3 | 0 | 0 | 0 | 1 | 0 | | 0 | Wooded | 0 | 0 | 0 | 0 | 4 | Low Priority | |
| 4309-01-1 | None | Cherry Brook, unnamed streams | 0 | 0 | 0 | 0 | 1 | 3 | 0 | | 3 | Cleared agricultural land, some wooded areas with light residential | 0 | 0 | 0 | 0 | 7 | Problem | |
| 4309-02-1 | None | Cherry Brook, Titan's Pond | 3 | 3 | 0 | 0 | 1 | 1 | 0 | | 3 | Wooded with light residential housing | 0 | 0 | 0 | 0 | 11 | High Priority | |
| 4309-00-2-R1 | None | Cherry Brook, unnamed streams | 3 | 0 | 0 | 0 | 1 | 1 | 0 | | 3 | Wooded with residential housing | 0 | 0 | 0 | 0 | 8 | Problem | |
| 4309-00-2-R2 | None | Cherry Brook, unnamed streams | 3 | 0 | 0 | 0 | 2 | 1 | 0 | | 3 | Mainly residential housing with wooded areas. | 0 | 0 | 0 | 0 | 9 | Problem | |
| 4308-19-2-R1 | None | Unnamed stream | 0 | 0 | 0 | 0 | 1 | 1 | 0 | | 0 | Wooded area with light residential housing | 0 | 0 | 0 | 0 | 2 | Low Priority | |
| 4308-18-1 | None | Spruce Brook, unnamed streams | 0 | 0 | 0 | 0 | 1 | 1 | 0 | | 3 | Wooded with light residential housing | 0 | 0 | 0 | 0 | 5 | Low Priority | |
| 4309-03-1 | None | Unnamed streams | 3 | 0 | 0 | 0 | 2 | 1 | 0 | | 3 | Residential housing with light cleared agricultural farmland and lightly wooded areas | 0 | 0 | 0 | 0 | 9 | Problem | |
| 4318-00-1 | None | Towards Hop Brook River in Simsbury | 0 | 0 | 0 | 0 | 3 | 1 | 0 | | 0 | Mainly residential housing with wooded areas. | 0 | 0 | 0 | 0 | 4 | Low Priority | |
| 4308-18-2-R1 | None | Spruce Brook, unnamed streams | 0 | 0 | 0 | 0 | 0 | 1 | 0 | | 0 | Wooded area with Ski mountain | 0 | 0 | 0 | 0 | 1 | Low Priority | |
| 4309-05-1 | 17 | Barbour Brook | 0 | 0 | 0 | 0 | 2 | 1 | 0 | | 3 | Residential housing with light cleared agricultural farmland and lightly wooded areas | 0 | 0 | 0 | 0 | 6 | Problem | |
| 4318-04-1-L1 | 15 | Unnamed streams | 0 | 0 | 0 | 0 | 3 | 2 | 0 | | 3 | Mainly residential housing with lightly wooded areas | 0 | 1 | 0 | 0 | 9 | Problem | |
| 4309-04-1 | 6 | Unnamed streams | 3 | 0 | 0 | 0 | 3 | 2 | 0 | | 3 | Mainly residential housing with lightly wooded areas | 2 | 0 | 0 | 0 | 13 | High Priority | |
| 4300-14-1 | 16 | Unnamed streams | 0 | 0 | 0 | 0 | 2 | 1 | 0 | | 3 | A mixture of cleared agricultural farmland and residential housing, as well as lightly wooded areas | 0 | 1 | 0 | 0 | 7 | Problem | |
| 4309-00-2-R4 | 2 | Cherry Brook, unnamed streams | 3 | 0 | 0 | 3 | 1 | 1 | 0 | | 3 | Mainly cleared agricultural farmland with light residential housing and wooded areas | 0 | 0 | 0 | 3 | 14 | High Priority | |
| 4318-04-1 | None | Towards Od Reservoir in Simsbury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | Wooded | 0 | 1 | 0 | 0 | 1 | Low Priority | |
| 4308-00-2-R1 | None | Towards Hallman Pond | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | Wooded | 0 | 0 | 0 | 0 | 0 | Exempt | |
| 4309-00-2-R3 | None | Cherry Brook, unnamed streams | 3 | 0 | 0 | 0 | 1 | 0 | 0 | | 0 | Cleared agricultural farmland | 0 | 0 | 0 | 0 | 4 | Low Priority | |
| 4300-00-4-R6 | None | Towards Chase Pond | 0 | 0 | 0 | 0 | 1 | 1 | 0 | | 0 | Wooded with light residential housing | 0 | 0 | 0 | 0 | 2 | Low Priority | |
| 4317-00-1 | None | Towards Jim Brook | 0 | 3 | 0 | 0 | 1 | 1 | 0 | | 0 | Wooded with light residential housing | 0 | 1 | 0 | 0 | 6 | Problem | |
| 4300-15-1 | 20 | Cherry Brook, Humphrey Pond | 0 | 3 | 0 | 0 | 3 | 3 | 0 | | 3 | Mainly residential housing with lightly wooded areas | 0 | 0 | 0 | 0 | 12 | High Priority | |
| 4312-01-1 | 23 | Jim Brook | 0 | 3 | 0 | 0 | 2 | 1 | 0 | | 3 | A mixture of residential housing and lightly wooded areas | 0 | 1 | 0 | 0 | 10 | High Priority | |
| 4300-00-4-R7 | None | Chase Pond | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | Wooded | 0 | 0 | 0 | 0 | 0 | Exempt | |
| 4309-00-2-R5 | 9 | Cherry Brook | 3 | 0 | 0 | 3 | 2 | 1 | 0 | | 3 | Mainly residential with wooded areas | 0 | 1 | 0 | 3 | 16 | High Priority | |
| 4300-16-1 | 29 | Cherry Brook, Bahre Pond | 0 | 0 | 0 | 0 | 2 | 2 | 0 | | 3 | Mainly residential with wooded and cleared agricultural farmland areas | 2 | 1 | 0 | 0 | 10 | High Priority | |
| 4300-00-4-R8 | 5 | Chase Pond | 0 | 0 | 0 | 0 | 2 | 2 | 0 | | 0 | Mainly residential housing with wooded areas and lightly cleared agricultural farmland | 0 | 1 | 0 | 0 | 5 | Low Priority | |
| 4312-00-1 | 4 | Werner Woods Dam, Burke Pond | 0 | 3 | 0 | 0 | 2 | 2 | 0 | | 3 | Mainly residential housing with wooded areas. | 0 | 1 | 0 | 0 | 11 | Problem | |
| 4300-00-4-R9 | None | Farmington River | 3 | 0 | 0 | 0 | 3 | 2 | 0 | | 0 | Cleared agricultural farmland and/or industrial/commercial sites | 0 | 1 | 1 | 0 | 10 | Problem | |
| 4300-00-4-R10 | 13 | Nepaug River, Holkfelder Pond | 0 | 0 | 0 | 0 | 3 | 2 | 0 | | 3 | Cleared agricultural farmland and/or industrial/commercial sites | 0 | 1 | 1 | 0 | 10 | High Priority | |
| 4300-18-1-L1 | 3 | Unnamed Stream, Upper Mills Pond | 0 | 3 | 0 | 0 | 3 | 3 | 0 | | 3 | Residential housing with lightly wooded areas, as well as industrial/commercial sites | 0 | 1 | 1 | 0 | 14 | High Priority | |
| 4310-00-3-L2 | None | Nepaug Reservoir | 0 | 3 | 0 | 0 | 3 | 2 | 0 | | 0 | Residential with wooded areas, as well as a reservoir | 0 | 1 | 0 | 0 | 9 | Problem | |
| 4310-00-3-R5 | 7 | Nepaug River, Holkfelder Pond | 0 | 0 | 0 | 0 | 2 | 1 | 0 | | 3 | Residential housing with wooded areas | 0 | 1 | 0 | 1 | 8 | Problem | |
| 4312-00-2-L2 | 14 | Cooper Pond, Roaring Brook | 3 | 3 | 0 | 0 | 3 | 3 | 0 | | 3 | A mixture of residential housing and industrial/commercial sites, as well as wooded areas | 0 | 1 | 1 | 0 | 17 | High Priority | |
| 4300-17-1 | 3 | Unnamed streams | 0 | 3 | 0 | 0 | 2 | 1 | 0 | | 3 | Mainly residential housing with wooded areas. | 0 | 1 | 1 | 0 | 11 | High Priority | |
| 4300-00-4-R11 | 23 | Rattlesnake Hill Brook, Farmington River | 0 | 3 | 0 | 0 | 3 | 3 | 0 | | 3 | A mixture of residential housing and industrial/commercial sites | 0 | 1 | 1 | 0 | 14 | High Priority | |
| 4300-18-1 | 2 | Unnamed Streams, Lower Mills Pond | 0 | 3 | 0 | 0 | 1 | 1 | 0 | | 3 | Mainly open parks with light residential housing | 0 | 1 | 1 | 0 | 10 | High Priority | |
| 4312-00-2-L1 | None | Bond Pond | 0 | 3 | 0 | 0 | 1 | 1 | 0 | | 0 | Residential housing with lightly wooded areas | 2 | 1 | 1 | 0 | 9 | Problem | |
| 4317-01-1 | None | Unnamed Pond | 0 | 0 | 0 | 0 | 3 | 3 | 0 | | 0 | Industrial/commercial site(s) with wooded areas | 0 | 1 | 0 | 0 | 7 | Problem | |
| 4300-16-2-R1 | None | Unnamed Stream, Rattlesnake Hill Brook | 0 | 3 | 0 | 0 | 2 | 2 | 0 | | 3 | Residential housing with wooded areas | 0 | 1 | 1 | 0 | 12 | High Priority | |
| 4300-00-4-R12 | 9 | Spring Brook | 0 | 0 | 0 | 0 | 3 | 3 | 0 | | 3 | Highly populated area with residential housing | 0 | 1 | 1 | 0 | 11 | High Priority | |
| 4312-02-1 | 2 | Towards Secret lake and Cherry Park Pond in Avon | 0 | 0 | 0 | 0 | 3 | 3 | 0 | | 0 | Residential housing | 0 | 1 | 1 | 0 | 8 | Problem | |

Scoring Criteria:

- Previous 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
- Catchments that discharge to or in the vicinity of any of the following areas: public beaches, recreational areas, drinking water supplies, or shellfish beds
- 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
- 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.)
- 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
- 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.
- Aging septic systems are septic systems 30 years or older in residential areas.
- Any river or stream that is culverted for distance greater than a simple roadway crossing.
- Based off of CT NEMO DCIA Calculations
- Pending investigation