MS4 General Permit
Town of Wallingford 2022 Annual Report
Permit Number GSM 00050
January 1, 2022 – December 31, 2022

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This report documents the Town of Wallingford'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	*The Town utilizes its website to post links related to the Stormwater Management Plan, as well as other links relating to polluted runoff, rain barrel utilization, and vegetated riparian buffers.* *Additionally, a "Stormwater and You" bulletin board was posted in the Town Hall, which has posted informative information on urban runoff, watersheds, and other applicable information.*	*Stormwater and You*	*Website*	*~1,000*	*Provide public access to stormwater literature.*	*Department of Public Works, Engineering, Wetlands, Planning & Zoning*	
1-2 Address education/ outreach for pollutants of concern	*The Town has posted a brochure on the Stormwater management page relating to pet waste management. This brochure details the importance of cleaning up after a pet as well as waterfowl pollutants.*	*Pet Care Fact Sheet*	*Website*	*~1,000*	*Educate and provide pet waste management to the public.*	*Water Pollution Control Authority*	

	Stormwater brochures were distributed in October of 2022 at "Celebrate Wallingford".						
Additional BMP: *1-3 Hazardous Waste Collection*	*The Town of Wallingford provides hazardous waste collection in association with the Regional Water Authority in New Haven. Wallingford residents can dispose of their hazardous wastes at this location Saturday Mornings from mid-May to the end of October.*	*Waste Disposal Center for Wallingford Residents*	*Website.*	*~1,000*	*Educate and provide hazardous waste collections.*	*Town Planning Committee*	

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

1. Continue with Hazardous Waste collection days.
2. A Stormwater booth will be set up at the 2023 "Celebrate Wallingford" event.

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*	*The Stormwater Management Plan is currently located on the Town's "Stormwater and You" page.*	*Provide notice and access to the Stormwater Management Plan*	*Engineering*	*April 1, 2017*	*Stormwater Management Plan*	
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	*Completed Annually*	*The public notice is posted via the Town website on an annual basis for public review and comments.*	*Provide notice and access to the Annual Report*	*Law Department, Engineering, and Department of Public Works*	*Annually-by Feb. 15th*	*Annual Report*	
Additional BMP: *2-3 Hazardous Waste Collection*	*Completed Annually*	*The Town of Wallingford provides hazardous waste collection in association with the Regional Water Authority in New Haven. Wallingford residents can dispose of their hazardous wastes at this location Saturday Mornings from mid-May to the end of October.*	*Provide Hazardous Waste Collections or access to collections*	*Regional Water Authority*	*Annually-mid-May though the end of October*	*Waste Disposal Center for Wallingford Residents*	
Additional BMP: *2-4 Composting*	*Completed Annually*	*The Town of Wallingford provides disposal for leaves and other organic debris for Town residents at the local compost center.*	*Provide disposal for organic debris.*	*Compost Center*	*Yearly*	*Compost Center*	

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

1. Annual posting of the MS4 annual report.
2. Brochures to be distributed during the 2023 "Celebrate Wallingford"

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)	*Completed*	*The Town finalized an IDDE program in September of 2019.*	*Develop written plan of IDDE program*	*Law Department, Department of Public Works, Engineering*	*September 2019*	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	*Completed*	*The Town developed a list and maps of all MS4 stormwater outfalls in priority areas through CAD technology. With assistance from Atlas, the Town has since mapped all MS4 stormwater outfalls through a GIS technology, and continues a QA/QC process of reviewing the GIS/CAD systems, and editing as necessary.*	*Map all outfalls.*			
3-3 Implement citizen reporting program (Ongoing)	*Completed*	*The Town has implemented an illicit discharge reporting form, which is available on the Town website. Citizen reporting is maintained through the Engineering Department.*	*Provide a reporting mechanism and log.*	*Engineering Department*	*April 1, 2017.*	*Citizen Reporting Form*
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	*Completed*	*The Town wrote and adopted a Stormwater Connection Ordinance, which was adopted in 2018.*	*Adopt ordinance*	*Law Department, Engineering*	*March 14, 2018*	*Ordinance No. 621*
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	*Completed*		*Maintain list.*	*Engineering Department*	*April 1, 2017*	
3-6 Address IDDE in areas with pollutants of concern	*Ongoing*	*Dry weather screening was conducted at 67 outfalls in 2022.* *Wet weather screening was conducted at eleven (11) priority outfalls.*	*Wet weather testing and additional investigation as necessary.*	*Engineering Department*	*Ongoing-Started in 2018*	

		Catchment Rankings have been completed. SSOs are under investigation.				

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

1. *Continue Wet Weather sampling at priority outfalls discharging to impaired waters.*
2. *Continue follow-up dry-weather screening/testing.*
3. *Respond to any illicit discharge complaints*
4. *Continue SSO investigations*

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

Location (Lat long/ street crossing /address and receiving water)	**Date and duration of occurrence**	**Discharge to MS4 or surface water**	**Estimated volume discharged**	**Known or suspected cause / Responsible party**	**Corrective measures planned and completed** (include dates)	**Sampling data** (if applicable)
48 Nicholas Road	*7/13/2018*	*Catch Basin on Nicholas Road*	*Unknown*	*A resident utilizing an RV was found to have been dumping the RV waste tank into the storm drain.*	*DEEP was contacted, as well as the Town. The resident was instructed that further dumping would result in fines. The resident was also provided a list of authorized RV waste dumping sites.*	*None.*
2019						
11 Old Gate Road.	*9/2/2019*	*Catch basin on Old Gate Road*	*Unknown*	*A septic system pipe was found to have been illegally connected to the MS4 system, and was discharging to the storm drain.*	*The homeowner was instructed to and completed a capping of a 4" diameter PVC pipe that had been found discharging sanitary sewage into the Town's catch basin.*	*None.*
2020						
1605 Durham Road	*4/24/2020*	*Asmund Brook*	*Unknown*	*A retention pond utilized by a facility for washing quarried stone was found to have insufficient runoff controls. This in turn caused runoff to enter into the Asmund Brook, causing a distinct green discoloration of the water.*	*Based on the location of the discharge (Wallingford and Durham), this illicit discharge falls under the jurisdiction of Durham, and is currently under investigation.*	*Elevated concentrations of chromium, copper, nickel, zinc, and total suspended solids were found.*
Unknown	*6/1/2020*	*--*	*--*	*Residential property-potential septic failure.*	*The Town completed an investigation, and determined that the discharge was groundwater from a nearby sump pump. No further action necessary.*	*None.*

2022						
2 Doherty Drive	*11/22/2022*	*Potential groundwater discharge to Muddy River.*	*Unknown*	*Residential property-Septic repair*	*Unknown repair type completed.*	*None.*
59 Shetland Drive	*11/10/2022*	*Potential groundwater discharge to Muddy River.*	*Unknown*	*Residential property-Septic repair*	*Unknown repair type completed.*	*None.*
28 Morgan Road	*11/22/2022*	*Potential groundwater discharge to Muddy River.*	*Unknown*	*Residential property-replacement of 1,250-gallon septic tank.*	*1,250-gallon septic tank replaced.*	*None.*
1460 Durham Road	*9/12/2022*	*Potential groundwater discharge to Spring Brook.*	*Unknown*	*Residential property-Septic repair*	*Unknown repair type completed.*	*None.*
960 Old Rockhill Road	*10/17/2022*	*Potential groundwater discharge to unnamed pond east of site.*	*Unknown*	*Residential property-Septic repair*	*Unknown repair type completed.*	*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
Permitting, citizen reporting	*2 Doherty Drive* *Unknown nature of structure with failing septic systems.*	*Unknown repair type completed.*	*Potential groundwater discharge to Muddy River.*	Wallingford Health Department
Permitting, citizen reporting	*59 Shetland Drive* *Unknown nature of structure with failing septic systems.*	*Unknown repair type completed.*	*Potential groundwater discharge to Muddy River.*	Wallingford Health Department
Permitting, citizen reporting	*28 Morgan Road* *Unknown nature of structure with failing septic systems.*	*1,250-gallon septic tank replaced.*	*Potential groundwater discharge to Muddy River.*	Wallingford Health Department
Permitting, citizen reporting	*1460 Durham Road* *Unknown nature of structure with failing septic systems.*	*Unknown repair type completed.*	*Potential groundwater discharge to Spring Brook.*	Wallingford Health Department
Permitting, citizen reporting	*960 Old Rockhill Road* *Unknown nature of structure with failing septic systems.*	*Unknown repair type completed.*	*Potential groundwater discharge to unnamed pond east of site.*	Wallingford Health Department

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

Residents of the Town can report illicit discharges to the Engineering Department through an online reporting form, which is available at https://www.wallingford.ct.us/government/departments/public-works/stormwater-and-you/. The Town then conducts follow-up investigations of reported IDDEs, and implements and/or enforces the discharge elimination.

Septic failures are reported by property owners to the Wallingford Health Department. The property owner is then directed to hire an engineer and/or contractor, depending on failure reason. The Wallingford Health Department oversees the installation of any new systems.

3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	*1,113*
Estimated or actual number of interconnections	*37*
Outfall mapping complete	*95% (ongoing updates throughout permit lifetime.*
Interconnection mapping complete	*80% (Mapping of the CTDOT interconnections and several other surrounding towns has been completed. Interconnection screenings are still under investigation.*
System-wide mapping complete (detailed MS4 infrastructure)	*95% (Ongoing updates throughout permit lifetime).*
Outfall assessment and priority ranking	*95% (The majority of outfalls to impaired waterbodies have been inspected and sampled. Six (6) priority outfalls have been chosen. Priority rankings have also been mapped, and may change throughout the permit lifetime based on future data.*
Dry weather screening of all High and Low priority outfalls complete	*70% (The majority of dry weather screening at outfalls in high priority outfalls and discharging to impaired waterbodies have been investigated. Outfalls throughout the entirety of the Town are continually being investigated.*
Catchment investigations complete	*96%. All catchments (utilizing basins for assessment purposes), have been ranked and prioritized. Due to the lengthy time needed to investigate all septic repairs and/or failures, refer to*

	Attachment III *for the completed Catchment Investigations.*
Estimated percentage of MS4 catchment area investigated	*50%*

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).

Annual training was provided to all Department of Public Works staff to recognized and report illicit discharges on March 16, 2022. This training included what an illicit discharge could look like, how to respond to an emergency illicit discharge, and how to report illicit discharges to superiors. An annual training for all Department of Public Works staff is planned for the spring of 2023.

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.*	*The Town has revised specific zoning and wetlands regulations to meet the needs for stormwater management as it pertains to construction.* *Specifically, the Zoning Map was modified for northeast Wallingford to allow the Town to have better control over what uses are permitted within the Watershed Protection District Overlay.* *§4.9 Industrial Expansion (IX) District and §4.10 Watershed Interchange (WI) District were updated to promote natural and native landscaping rather than regularly mowed and fertilized lawns.* *§4.13 Watershed Protection District (WPD) Overlay was updated to require a higher level of stormwater runoff quality per the Water Division standards. Landscaping requirements for parking lots were also added to optimize natural infiltration of stormwater, such as depressed islands for rain gardens. The use of sodium chloride for ice control was prohibited and storage container requirements were updated to avoid illicit discharge occurrences.*	*Revise land-use regulations*	*Planning and Zoning, Wetlands.*	*July 1, 2017.*	
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	*Completed*	*The Town Engineer reviews proposed soil erosion and sediment control measures to ensure compliance with the CTDEEP 2002 Guidelines for Soil Erosion and Sediment Control. Third party peer reviews are occasionally utilized.* *Typically, the Planning and Zoning and the Environmental Planner will hold bonds for most Planning & Zoning or Inland Wetland and Watercourse Commission Applications.*	*Utilize interdepartmental coordination in site plan review and approval, as it pertains to the MS4 permit.*	*Planning and Zoning, Wetlands, Town Engineer*	*June 30, 2018-ongoing throughout permit lifetime.*	

4-3 Review site plans for stormwater quality concerns (Ongoing)	*Completed*	*Site plans are reviewed for compliance with the contractor's Stormwater Management Plan.*	*Review revised plans for MS4 compliance, and issue review comments.*	*Planning and Zoning, Wetlands.*	*July 1, 2017- ongoing throughout permit lifetime.*	*Projects that fall under the Planning and Zoning department are reviewed for compliance with the CTDOT drainage manual.*
4-4 Conduct site inspections (Ongoing)	*Completed (ongoing)*	*The Planning and Zoning staff and/or the Environmental Planner conduct inspections, typically once soil erosion measures are installed, as well as periodically throughout construction.* *The Town Planner conducted approximately 10-20 soil erosion inspections in 2022, three of which were accompanied by the Town Engineer. One (1) site (33 Summerwood Drive) was stabilized, following an NOV in 2021.* *Another site (4A Research Parkway) failed to notify the Planning and Zoning Department prior to the start of construction. Furthermore, this site was identified with poor soil erosion control measures, following filed complaint. The Town Planner is working with this location to bring the site into compliance.*	*Document inspections and actions.*	*Planning and Zoning, Environmental Planner*	*Ongoing throughout permit lifetime.*	
4-5 Implement procedure to allow public comment on site development (Ongoing)	*Completed*	*Site inspections are completed on an as-needed basis.*	*Provide an opportunity for public comment/involvement.*	*Planning and Zoning, Wetlands*	*July 1, 2017-ongoing throughout permit lifetime.*	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	*Completed*	*Brochures and flyers are posted throughout applicable departments pertaining to the DEEP construction stormwater permit.*	*Include comments to applications.*	*Planning and Zoning, Wetlands*	*July 1, 2017-ongoing throughout permit lifetime.*	*The Town is looking to add this requirement to future applications for the Planning and Zoning department, as well as the wetlands department.*
Additional BMP: *4-7 Require Waste Control on-site*	*Completed*	*On-site waste control is required throughout the entirety of the Town of Wallingford, regardless of new development and/or construction. Ordinance No. 190 makes provision for the safe and sanitary*	*Notify developers about DEEP*	*Department of Public Works*	*Adopted in January of 2007-ongoing throughout permit lifetime.*	

		disposal of all solid wastes, which are generated within the Town boundaries.	*permitting obligations.*			

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

Many applications are approved on an annual basis, with approvals lasting for approximately five (5) years. Key Town projects involving construction site runoff control activities include the Northford Road Bridge replacement, Doolittle Park Basketball Court Replacement, Police Department construction at 100 Barnes Road. Other key private projects will occur at 1107 Northrop Road, 90 North Plains Industrial Road, 654 North Colony and 4A Research Parkway in 2023.

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)	*Ongoing*	*Currently, regulations exist and are utilized for the enforcement of runoff reduction. The Town is looking to strengthen these regulations.*	*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.*	*Planning and Zoning, Wetlands.*	*July 1, 2020-ongoing*	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	*Completed*	*A Stormwater Maintenance Plan is required for any area that is equal to or greater than 1 acre of disturbance.*	*Enforce regulations and guidelines of LID and runoff reductions.*	*Planning and Zoning*	*July 1, 2019-ongoing throughout permit lifetime.*	
5-3 Identify retention and detention ponds in priority areas (Due 7/1/20)	*Completed*	*All detention, retention, and sediment basins have been identified for the Town. Inspections are completed annually and cleaned where basins are found to have 50% of sediment in excess.*	*Compile a list and complete mapping of Town-owned detention basins.*	*Engineering*	*July 1, 2019-ongoing throughout permit lifetime.*	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	*Completed*	*The Department of Public Works and Engineering department coordinate inspections of basins on an annual basis, and facilitate maintenance on an as-needed basis.*	*Annually inspect and maintain facilities.*	*Engineering, Department of Public Works.*	*July 1, 2019-ongoing throughout permit lifetime.*	

5-5 DCIA mapping (Due 7/1/20)	*Completed*	*The Town's DCIA was calculated with assistance from Nathan L Jacobson & Associates. Atlas has mapped all DCIA areas through a GIS system.*	*Provide an understanding of the Town's overall DCIA to the MS4 infrastructure.*	*Engineering, Nathan L. Jacobson & Associates, Atlas.*	*June 2019*	
5-6 Address post-construction issues in areas with pollutants of concern	*Completed*	*In post-construction areas, if erosion or high accumulation of sedimentation are found during the annual inspections conducted under the long-term maintenance plan, the Town will prioritize these areas for DCIA retrofit projects.*	*Address post-construction areas where erosion or high accumulation of sedimentation are found during annual inspections.*	*Engineering*	*July 1, 2020-ongoing throughout permit lifetime.*	

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

1. *The Town will continue to monitor, clean, and repair settling/silting basins, catch basins, outfalls, swales, etc.*
2. *Develop process for annual inspections of Post-Construction Stormwater Management activities*

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 (2012) Directly Connected Impervious Area (DCIA)	573.76 acres
DCIA disconnected (redevelopment plus retrofits)	0.1767 acres (7,700 sq.ft) / acres total (TBD)
Retrofit projects completed	***33 North Cherry Street:*** the parking lot was updated and reduced impervious coverage by 4,620 sq.ft. ***Wallace Ave Parking lots:*** updated and reduced impervious coverage by 3,080 sq.ft.
DCIA disconnected	0.031% this year / % total since 2012 (TBD)
Estimated cost of retrofits	$TBD
Detention or retention ponds identified	17 total

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 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 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 State. 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 $DCIA\% = 0.01*(IA\%)2.0$

For an impervious area between 6% and 12 %:
50% of the area was assigned to the partial connectivity Sutherland Equation where $DCIA\% = 0.04*(IA\%)1.7$
and
50% was assigned to the average connectivity Sutherland Equation where $DCIA\% = 0.10*(IA\%)1.5$

For an impervious area between 12% and 18 %:
50% of the area was assigned to the average connectivity Sutherland Equation where $DCIA\% = 0.10*(IA\%)1.5$
and
50% was assigned to the high connectivity Sutherland Equation where $DCIA\% = 0.40*(IA\%)1.2$

For an impervious area of greater than 18 %:
100% of the area was assigned to the high connectivity Sutherland Equation where $DCIA\% = 0.40*(IA\%)1.2$

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)	*Completed Annually*	*All Department of Public Works personnel are trained with proper stormwater management procedures and spill control.*	*Eliminate non-stormwater discharges into the storm sewers.*	*Department of Public Works*	*Ongoing throughout permit lifetime*	*Annual training was completed on March 16, 2022. This training included how to identify and report an illicit discharge, as well as proper stormwater management procedures and spill control at multiple industrial facilities owned by the Town.*
6-2 Implement MS4 property and operations maintenance (Ongoing)	*Completed*	*The Town utilizes a Spill Response Team through the local fire department. An SPCC plan is also implemented at the DPW facility.*	*Eliminates/minimizes spills and/or pollutant releases to the environment and navigable waterways.*	*Department of Public Works, Local Fire Department*	*December 31, 2019-ongoing throughout permit lifetime*	
6-3 Implement coordination with interconnected MS4s	*Completed*	*Coordination of the MS4 interconnection mapping began in 2019. CTDOT interconnections have been mapped, and coordination between the Town and surrounding areas is ongoing.*	*Update the GIS system with interconnected locations.*	*Engineering, Department of Public Works*	*December 31, 2018-ongoing throughout permit lifetime.*	
6-4 Develop/implement program to control other sources of pollutants to the MS4		*A Spill Response Team has been developed in the Town utilizing the local fire department.*	*Reduce other possible pollutants to the MS4.*	*Department of Public Works, Local Fire Department*	*Ongoing throughout permit lifetime.*	
6-5 Evaluate additional measures for discharges to impaired waters*	*Ongoing*	*Wet weather sampling events have been conducted, and priority outfalls were identified throughout the Town. Dry weather inspections are continuing to be conducted for the entirety of the Town. As*	*Pending further investigations create a program or plan of action to reduce bacterial discharge to impaired waters.*	*Engineering, Atlas*	*Ongoing-started in 2021.*	

		catchments are investigated, the Town will coordinate with Atlas on future measures pertaining to the reduction of bacterial discharge to impaired waters.				
6-6 Track projects that disconnect DCIA (Ongoing)	*Ongoing*	*A Stormwater Retrofit Program has been drafted, and will be utilized as a method of tracking future DCIA disconnects.*	*Track DCIA disconnects.*	*Engineering*	*Ongoing-drafted in 2021*	
6-7 Implement infrastructure repair/rehab program (Due 7/1/21)	*Ongoing*	*The Town currently assesses and maintains stormwater structures throughout the Town. The Town implements repairs or rehabilitation on an as-needed basis.*	*Reduce/eliminate causes or contributions of pollution or contamination of stormwater, the storm drain system, or waters of the U.S.*	*Department of Public Works, Engineering*	*Ongoing throughout permit lifetime.*	
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.*	*Planning and Zoning, Engineering*	*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.*	*Planning and Zoning, Engineering*	*Ongoing-started in 2021*	
6-10 Develop/implement street sweeping program (Ongoing)	*Completed annually*	*All streets are swept at least once a year to remove sand and/or other debris.*	*Track swept lane miles.*	*Department of Public Works.*	*Completed Annually.*	
6-11 Develop/implement catch basin cleaning program (Ongoing)	*Completed*	*The Town inspects approximately 1,000 catch basins a year. If a catch basin is found to have a sediment load of 50% or greater, then the sediment is removed.*	*Track material usage, and update plan as needed.*	*Department of Public Works.*	*Completed Annually.*	

6-12 Develop/implement snow management practices (Due 7/1/18)	*Completed*	*Snow management is implemented on an annual basis. Department of Public Works staff are aware of risks associated with snow distribution as well as the potential effects of runoff. Generally, excess snow is staged at the property in which it is managed, and/or on the sides of roadways. Excess snow is transported and disposed of at the Town's Pent Road facility.*	*Track material usage, and update plan as needed.*	*Department of Public Works*	*Completed Annually.*	
Additional BMP: *6-13 New Road Construction Projects*	*Completed*	*The Town has implemented the use of sheet flow drainage in an effort to eliminate or reduce the use of catch basins. This sheet flow drainage will be utilized as a BMP when road re-paving is underway.*	*Reduce pollutants to the MS4, specifically sediment overload.*	*Department of Public Works*	*As needed*	*Reason for addition: Reduce sedimentation of waterways*

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

1. The Town will continue to conduct annual stormwater compliance training
2. Assess and implement repairs/rehabilitation as needed at MS4 basins.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	*March 16, 2022.*
Street sweeping	
Curb miles swept	440 miles
Volume (or mass) of material collected	471 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)	8,727
Total catch basins town- (or institution-) wide	9,819
Catch basins inspected	As needed basis
Catch basins cleaned	30
Volume (or mass) of material removed from all catch basins	12 tons
Volume removed from catch basins to impaired waters (if known)	TBD
Snow management	
Type(s) of deicing material used	Treated salt
Total amount of each deicing material applied	3,527 tons
Type(s) of deicing equipment used	Salt spreaders

Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	440 miles
Snow disposal location	N/A
Staff training provided on application methods & equipment	Yes / 10/7/2022
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	Service provided by vendor per specifications
Reduction in turf area (since start of permit)	Service provided by vendor per specifications
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.
Approximately 1,000 catch basins are inspected by the Department of Public Works on an annual basis. Catch basins that are found with over a 50% sediment load are cleaned. Catch basins in priority areas as well as catch basins with known historical issues are focuses on. A limited amount of staff and equipment perform this task.

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, 72 catchments were identified with Urbanized Areas.

20 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. 66 catchments were identified as Problem or High Priority.

Specific criteria was utilizing 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, supplied in the 2021 annual report, 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, included in the Town of Wallingford's 2021 MS4 Annual Report, is designed to comply with *Section (6) (B) (ii)* of the CTDEEP 2017-2022 MS4 Permit. The Town of Wallingford 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.

Furthermore, the Planning and Zoning Department has initiated the requirement of all Planning and Zoning applicants to submit their DCIA reduction calculations with their applications in 2022. Several proposed projects will be reducing DCIA; however, construction for these sites have not yet been completed.

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 Wallingford, with the assistance of Atlas, has completed all dry weather inspections and wet weather sampling at outfalls to impaired waterbodies. Dry weather screening of 70 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.* *To date, 112 outfalls discharging to impaired waterbodies have been investigated, 88 of which have been sampled during wet weather events, including eleven (11) priority outfalls on an annual basis. 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.* *Stormwater discharge analytical results are indicative of elevated bacterial concentrations. Outfalls that discharge to impaired waterbodies with "other pollutant of concern" have indicated generally low turbidity, with the exception of select outfalls to Wharton's Brook. Additional sampling and dry-weather screening for remaining outfalls continues. Refer to **Attachment I** for wet weather sampling analytical data conducted in 2022.*

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, visitwww.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? ***
LH-2	41.435775/ -72.824375	6/10/2019	Other	Turbidity: <5 NTU	N/A	None.
LH-3	41.434435/ -72.824212	6/10/2019	Other	Turbidity 19.32 NTU	N/A	Yes
LH-6	*41.43099/ -72.820112*	6/10/2019	Other	Turbidity 10.67 NTU	N/A	Yes
LH-7	*41.430894/ -72.819874*	6/10/2019	Other	Turbidity: 9.67 NTU	N/A	Yes
LH-8	*41.431369/ -72.817063*	6/10/2019	Other	Turbidity: 23.99 NTU	N/A	Yes
LH-9	*41.433966/ -72.813953*	6/10/2019	Other	Turbidity: 7.32 NTU	N/A	Yes
MR-2	*41.406323/ -72.803502*	6/10/2019	Other	Turbidity: 0.16 NTU	N/A	No
MR-3	*41.406275/ -72.803362*	6/10/2019	Other	Turbidity: 0.01 NTU	N/A	No
WB-48	*41.432293/ -72.832283*	6/10/2019	Other	Turbidity: 0.48 NTU	N/A	No
WB-28	*41.450357/ -72.814351*	6/10/2019	Other	Turbidity: 5.86 NTU	N/A	Yes

WB-29	*41.450074/ -72.81412*	6/10/2019	Other	Turbidity: 47.02 NTU	N/A	Yes
WB-30	*41.449968/ -72.813939*	6/10/2019	Other	Turbidity: 45.02 NTU	N/A	Yes
WB-31		6/10/2019	Other	Turbidity: 16.3 NTU	N/A	Yes
WB-33	*41.448559/ -72.815494*	6/10/2019	Other	Turbidity: 11.6 NTU	N/A	Yes
QR-11	*41.462104/ -72.826282*	6/10/2019	Other	Turbidity: 17.59 NTU	N/A	Yes
QR-12	*41.459841/ -72.827471*	6/10/2019	Other	Turbidity: 6.62 NTU	N/A	Yes
WB-11	*41.463681/ -72.795415*	6/25/2019	Other	Turbidity: 3.6 NTU	N/A	No
WB-17	*41.460981/ -72.797429*	6/25/2019	Other	Turbidity 3.1 NTU	N/A	No
WB-18	*41.460693/ -72.797471*	6/25/2019	Other	Turbidity: 6.8 NTU	N/A	Yes
WB-20	*41.459926/ -72.797676*	6/25/2019	Other	Turbidity: 6.1 NTU	N/A	Yes
WB-21	*41.458646/ -72.798128*	6/25/2019	Other	Turbidity: 10.6 NTU	N/A	Yes
WB-22	*41.45617/ -72.803508*	6/25/2019	Other	Turbidity: 17.4 NTU	N/A	Yes
WB-23	*41.456125/ -72.803435*	6/25/2019	Other	Turbidity: 44.1 NTU	N/A	Yes
WB-34	*41.448097/ -72.81762*	6/25/2019	Other	Turbidity: 61.5 NTU	N/A	Yes
WB-35		6/25/2019	Other	Turbidity: 107.4 NTU	N/A	Yes
QR-13	*41.458836/ -72.835459*	6/25/2019	Other	Turbidity: 16.2 NTU	N/A	Yes
QR-15	*41.458434/ -72.835647*	6/25/2019	Other	Turbidity: 14.6 NTU	N/A	Yes
QR-16	*41.458395/ -72.835737*	6/25/2019	Other	Turbidity: 14.8 NTU	N/A	Yes
QR-17	*41.458125/ -72.836198*	6/25/2019	Other	Turbidity: 46.8 NTU	N/A	Yes
QR-23	*41.432676/ -72.85064*	6/25/2019	Other	Turbidity: 44.1 NTU	N/A	Yes
LH-12	*41.435807/ -72.808388*	6/25/2019	Other	Turbidity: 26.9 NTU	N/A	Yes
2020						
WB-1	*41.482996/ -72.782988*	3/13/2020	Other	Turbidity: 19.48 NTU	N/A	Yes

WB-2	*41.479369/ -72.785385*	3/13/2020	Other	Turbidity: 13.35 NTU	N/A	Yes
WB-3	*41.477169/ -72.785469*	3/13/2020	Other	Turbidity: 10.67 NTU	N/A	Yes
WB-4	*41.475873/ -72.78748*	3/13/2020	Other	Turbidity: 8.67 NTU	N/A	Yes
WB-5	*41.472614/ -72.793405*	3/13/2020	Other	Turbidity: 12.56 NTU	N/A	Yes
WB-6	*41.470504/ -72.794556*	3/13/2020	Other	Turbidity: 8.83 NTU	N/A	Yes
WB-7	*41.470374/ -72.794619*	3/13/2020	Other	Turbidity: 8.83 NTU	N/A	Yes
WB-8	*41.469592/ -72.795031*	3/13/2020	Other	Turbidity: 9.29 NTU	N/A	Yes
WB-12	*41.463192/ -72.795656*	3/13/2020	Other	Turbidity: 160.9 NTU	N/A	Yes
WB-13	*41.46227/ -72.796111*	3/13/2020	Other	Turbidity: 17.24 NTU	N/A	Yes
WB-14	*41.463438/ -72.796459*	3/13/2020	Other	Turbidity: 12.06 NTU	N/A	Yes
WB-16	*41.461334/ -72.79699*	3/13/2020	Other	Turbidity: 24.19 NTU	N/A	Yes
WB-18	*41.460693/ -72.797471*	3/13/2020	Other	Turbidity: 31.11 NTU	N/A	Yes
WB-20	*41.459926/ -72.797676*	3/13/2020	Other	Turbidity: 1.61 NTU	N/A	No
WB-21	*41.458646/ -72.798128*	3/13/2020	Other	Turbidity: 2.19 NTU	N/A	No
WB-22	*41.45617/ -72.803508*	3/13/2020	Other	Turbidity: 19.91 NTU	N/A	Yes
WB-23	*41.456125/ -72.803435*	3/13/2020	Other	Turbidity: 18.63 NTU	N/A	Yes
WB-24	*41.453328/ -72.804466*	3/13/2020	Other	Turbidity: 11.18 NTU	N/A	Yes
WB-25	*41.451907/ -72.813452*	3/13/2020	Other	Turbidity: 25.61 NTU	N/A	Yes
WB-26	*41.451921/ -72.813353*	3/13/2020	Other	Turbidity: 10.61 NTU	N/A	Yes
WB-27	*41.45189/ -72.813288*	3/13/2020	Other	Turbidity: 90.81 NTU	N/A	Yes
WB-28	*41.450357/ -72.814351*	3/13/2020	Other	Turbidity: 11.24 NTU	N/A	Yes
WB-29	*41.450074/ -72.81412*	3/13/2020	Other	Turbidity: 38.57 NTU	N/A	Yes

WB-30	*41.449968/ -72.813939*	3/13/2020	Other	Turbidity: 9.16 NTU	N/A	Yes
WB-31		3/13/2020	Other	Turbidity: 25.50 NTU	N/A	Yes
WB-32	*41.449435/ -72.815047*	3/13/2020	Other	Turbidity: 22.46 NTU	N/A	Yes
WB-33	*41.438152/ -72.824277*	3/13/2020	Other	Turbidity: 20.65 NTU	N/A	Yes
WB-34	*41.448097/ -72.81762*	3/13/2020	Other	Turbidity: 20.72 NTU	N/A	Yes
WB-35		3/13/2020	Other	Turbidity: 20.68 NTU	N/A	Yes
WB-36	*41.446483/ -72.819608*	3/13/2020	Other	Turbidity: 20.44 NTU	N/A	Yes
WB-37	*41.444777/ -72.818079*	3/13/2020	Other	Turbidity: 10.12 NTU	N/A	Yes
WB-38	*41.44401/ -72.82061*	3/13/2020	Other	Turbidity: 15.64 NTU	N/A	Yes
WB-39	*41.443093/ -72.818226*	3/13/2020	Other	Turbidity: 12.63 NTU	N/A	Yes
WB-41	*41.442284/ -72.819275*	3/13/2020	Other	Turbidity: 15.96 NTU	N/A	Yes
WB-24	*41.453328/ -72.804466*	4/21/2020	Other	Turbidity: <5 NTU	N/A	No
WB-25	*41.451907/ -72.813452*		Other	Outfall destroyed. No samples collected.	N/A	
WB-26	*41.451921/ -72.813353*	4/21/2020	Other	Turbidity: >5 NTU	N/A	Yes
WB-27	*41.45189/ -72.813288*	4/21/2020	Other	Turbidity: >5 NTU	N/A	Yes
QR-1	*41.503345/ -72.824605*	4/21/2020	Other	Turbidity: >5 NTU	N/A	Yes
QR-3	*41.499705/ -72.818617*	4/21/2020	Other	Turbidity: >5 NTU	N/A	Yes
QR-5	*41.487679/ -72.818601*	4/21/2020	Other	Turbidity: >5 NTU	N/A	Yes
QR-7	*41.487413/ -72.820477*	4/24/2020	Other	Turbidity: <5 NTU	N/A	No
WB-12	*41.463192/ -72.795656*	4/24/2020	Other	Turbidity: 29.32 NTU	N/A	Yes
WB-13	*41.46227/ -72.796111*	4/24/2020	Other	Turbidity: 9.55 NTU	N/A	Yes
WB-32	*41.449435/ -72.815047*	4/24/2020	Other	Turbidity: 7.89 NTU	N/A	Yes
WB-36	*41.446483/ -72.819608*	4/24/2020	Other	Turbidity: 8.75 NTU	N/A	Yes

WB-41	*41.442284/ -72.819275*	4/24/2020	Other	Turbidity: 2.39 NTU	N/A	No
WB-45	*41.436769/ -72.831613*	4/24/2020	Other	Turbidity: 4.16 NTU	N/A	No
MR-1	*41.405734/ -72.804528*	04/30/2020	Bacteria, Other	E.coli: **5,790** Total Coliform: **>24,200**	Phoenix Environmental	Yes
MR-2	41.406323/ -72.803502	9/10/2020	Bacteria, Other	E. coli: **3,870** Total Coliform: **>24,200**	Phoenix Environmental	Yes
QR-6	41.487533/ -72.820636	04/24/2020	Bacteria, Other	E.coli: **4,610** Total Coliform: **>24,200**	Phoenix Environmental	Yes
QR-8	41.485489/ -72.822444	04/24/2020	Bacteria, Other	E.coli: **631** Total Coliform: **>24,200**	Phoenix Environmental	Yes
QR-9	41.46664/ -72.823797	04/30/2020, 9/10/2020	Bacteria, Other	E.coli: **8,160** Total Coliform: **>24,200**	Phoenix Environmental	Yes
QR-10	41.46408/ -72.824739	9/10/2020	Bacteria, Other	E.coli: **>24,200** Total Coliform: **>24,200**	Phoenix Environmental	Yes
QR-11	41.462104/ -72.826282	9/10/2020	Bacteria, Other	E. coli: **>24,200** Total Coliform: **>24,200**	Phoenix Environmental	Yes
QR-17	41.458125/ -72.836198	04/13/2020	Bacteria, Other	E.coli: **3,450** Total Coliform: **>24,200**	Phoenix Environmental	Yes
AB-1	41.424694/ -72.825552	9/10/2020	Bacteria	E. coli: **24,200** Total Coliform: **>24,200**	Phoenix Environmental	Yes
AB-2	41.424813/ -72.823668	9/10/2020	Bacteria	E. coli: **3,870** Total Coliform: **>24,200**	Phoenix Environmental	Yes
AB-3	41.428012/ -72.813003	9/10/2020	Bacteria	E. coli: **880** Total Coliform: **>24,200**	Phoenix Environmental	Yes
AB-4	41.428283/ -72.811922	9/10/2020	Bacteria	E. coli: **195** Total Coliform: **>24,200**	Phoenix Environmental	Yes
2021						
OF-247	41.49404/ -72.809227	9/1/2021	Bacteria, Other	E. coli: 97 Total Coliform: **>24,200** Turbidity: **11.81** NTU	Phoenix Environmental	Yes
OF-54	41.499899/ -72.818361	9/1/2021	Bacteria, Other	E. coli: **6,870** Total Coliform: **>24,200** Phosphorus: 0.207 mg/L	Phoenix Environmental	Yes
OF-269	41.504222/ -72.820081	9/1/2021	Bacteria, Other	E. coli: **6,870** Total Coliform: **>24,200** Turbidity: **159.8** NTU	Phoenix Environmental	Yes
OF-270	41.506531/ -72.818521	9/1/2021	Bacteria, Other	E. coli: **19,900** Total Coliform: **>24,200** Turbidity: **41.69** NTU	Phoenix Environmental	Yes
QR-6	41.487533/ -72.820636	9/1/2021	Bacteria, Other	E. coli: **>24,200** Total Coliform: **>24,200** Phosphorus: 0.171 mg/L	Phoenix Environmental	Yes

QR-8	41.485489/ -72.822444	9/1/2021	Bacteria, Other	E. coli: **>24,200** Total Coliform: **>24,200** Phosphorus: 0.236 mg/L	Phoenix Environmental	Yes
QR-10	41.46664/ -72.823797	9/1/2021	Bacteria, Other	E. coli: **2,910** Total Coliform: **>24,200** Phosphorus: 0.182 mg/L	Phoenix Environmental	Yes
QR-11	41.46408/ -72.824739	9/1/2021	Bacteria, Other	E. coli: **816** Total Coliform: **>24,200** Phosphorus: 0.063 mg/L	Phoenix Environmental	Yes
QR-17	41.462104/ -72.826282	9/1/2021	Bacteria, Other	E. coli: **>24,200** Total Coliform: **>24,200** Phosphorus: **0.458** mg/L	Phoenix Environmental	Yes
AB-1	41.424694/ -72.825552	9/1/2021	Bacteria	E. coli: **670** Total Coliform: **>24,200**	Phoenix Environmental	Yes
AB-2	41.424813/ -72.823668	9/1/2021	Bacteria	E. coli: 20 Total Coliform: **>24,200**	Phoenix Environmental	Yes
AB-3	41.428012/ -72.813003	9/1/2021	Bacteria	E. coli: **3,130** Total Coliform: **>24,200**	Phoenix Environmental	Yes
AB-4	41.428283/ -72.811922	9/1/2021	Bacteria	E. coli: **1,270** Total Coliform: **>24,200**	Phoenix Environmental	Yes
MR-1	*41.405734/ -72.804528*	9/1/2021	Bacteria	E. coli: **11,200** Total Coliform: **>24,200**	Phoenix Environmental	Yes
MR-2	41.406323/ -72.803502	9/1/2021	Bacteria	E. coli: **3,870** Total Coliform: **>24,200**	Phoenix Environmental	Yes
2022						
QR-6	41.487533/ -72.820636	6/27/2022	Bacteria, Other	E. coli: **3,650 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.120 mg/L	Phoenix Environmental	Yes
QR-8	41.485489/ -72.822444	6/27/2022	Bacteria, Other	E. coli: **13,000 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.308 mg/L	Phoenix Environmental	Yes
QR-10	41.46664/ -72.823797	6/27/2022	Bacteria, Other	E. coli: **>24,200 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.231 mg/L	Phoenix Environmental	Yes
QR-11	41.46408/ -72.824739	6/27/2022	Bacteria, Other	E. coli: **1,150 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.100 mg/L	Phoenix Environmental	Yes
QR-17	41.462104/ -72.826282	6/27/2022	Bacteria, Other	E. coli: **>24,200 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: **0.400** mg/L	Phoenix Environmental	Yes
AB-1	41.424694/ -72.825552	6/27/2022	Bacteria	E. coli: **1,530 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental	Yes
AB-2	41.424813/ -72.823668	6/27/2022	Bacteria	E. coli: **4,610 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental	Yes

AB-3	41.428012/ -72.813003	6/27/2022	Bacteria	E. coli: **2,610 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental	Yes
AB-4	41.428283/ -72.811922	6/27/2022	Bacteria	E. coli: **908 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental	Yes
MR-1	*41.405734/ -72.804528*	6/27/2022	Bacteria	E. coli: **2,910 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental	Yes
MR-2	41.406323/ -72.803502	6/27/2022	Bacteria	E. coli: **2,600 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental	Yes

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

Pollutant of concern	**Pollutant threshold**
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	• E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others • Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	• Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB • Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

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

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall ID	**Status of drainage area investigation**	**Control measure to address impairment**
See above-listed outfalls.	*Investigations are being conducted on the surrounding drainage areas, with a focus on surrounding runoff from agricultural land, septic repairs, and septic failures.*	*Potential measures that may be used in addressing bacterial impairments include aquatic vegetative buffers, 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)
				2020	
QR-6	41.487533/ -72.820636	04/24/2020	Bacteria, Other	E.coli: **4,610** Total Coliform: **>24,200**	Phoenix Environmental
QR-8	41.485489/ -72.822444	04/24/2020	Bacteria, Other	E.coli: **631** Total Coliform: **>24,200**	Phoenix Environmental
QR-10	41.46664/ -72.823797	04/30/2020, 9/10/2020	Bacteria, Other	E.coli: **8,160** Total Coliform: **>24,200**	Phoenix Environmental
QR-11	41.46408/ -72.824739	9/10/2020	Bacteria, Other	E.coli: **>24,200** Total Coliform: **>24,200**	Phoenix Environmental
QR-17	41.462104/ -72.826282	9/10/2020	Bacteria, Other	E. coli: **>24,200** Total Coliform: **>24,200**	Phoenix Environmental
AB-1	41.424694/ -72.825552	9/10/2020	Bacteria	E. coli: **24,200** Total Coliform: **>24,200**	Phoenix Environmental
AB-2	41.424813/ -72.823668	9/10/2020	Bacteria	E. coli: **3,870** Total Coliform: **>24,200**	Phoenix Environmental
AB-3	41.428012/ -72.813003	9/10/2020	Bacteria	E. coli: **880** Total Coliform: >24,200	Phoenix Environmental
AB-4	41.428283/ -72.811922	9/10/2020	Bacteria	E. coli: **195** Total Coliform: **>24,200**	Phoenix Environmental
MR-1	*41.405734/ -72.804528*	04/30/2020	Bacteria, Other	E.coli: **5,790** Total Coliform: **>24,200**	Phoenix Environmental
MR-2	41.406323/ -72.803502	9/10/2020	Bacteria, Other	E. coli: **3,870** Total Coliform: **>24,200**	Phoenix Environmental
				2021	
QR-6	41.487533/ -72.820636	9/1/2021	Bacteria, Other	E. coli: **>24,200** Total Coliform: **>24,200** Phosphorus: 0.171 mg/L	Phoenix Environmental
QR-8	41.485489/ -72.822444	9/1/2021	Bacteria, Other	E. coli: **>24,200** Total Coliform: **>24,200** Phosphorus: 0.236 mg/L	Phoenix Environmental
QR-10	41.46664/ -72.823797	9/1/2021	Bacteria, Other	E. coli: **2,910** Total Coliform: **>24,200** Phosphorus: 0.182 mg/L	Phoenix Environmental
QR-11	41.46408/ -72.824739	9/1/2021	Bacteria, Other	E. coli: **816** Total Coliform: **>24,200**	Phoenix Environmental

				Phosphorus: 0.063 mg/L	
QR-17	41.462104/ -72.826282	9/1/2021	Bacteria, Other	E. coli: **>24,200** Total Coliform: **>24,200** Phosphorus: 0.458 mg/L	Phoenix Environmental
AB-1	41.424694/ -72.825552	9/1/2021	Bacteria	E. coli: **670** Total Coliform: **>24,200**	Phoenix Environmental
AB-2	41.424813/ -72.823668	9/1/2021	Bacteria	E. coli: 20 Total Coliform: **>24,200**	Phoenix Environmental
AB-3	41.428012/ -72.813003	9/1/2021	Bacteria	E. coli: **3,130** Total Coliform: **>24,200**	Phoenix Environmental
AB-4	41.428283/ -72.811922	9/1/2021	Bacteria	E. coli: **1,270** Total Coliform: **>24,200**	Phoenix Environmental
MR-1	*41.405734/ -72.804528*	9/1/2021	Bacteria	E. coli: **11,200** Total Coliform: **>24,200**	Phoenix Environmental
MR-2	41.406323/ -72.803502	9/1/2021	Bacteria	E. coli: **3,870** Total Coliform: **>24,200**	Phoenix Environmental
QR-6	41.487533/ -72.820636	9/1/2021	Bacteria, Other	E. coli: **3,650 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.120 mg/L	Phoenix Environmental
QR-8	41.485489/ -72.822444	9/1/2021	Bacteria, Other	E. coli: **13,000 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.308 mg/L	Phoenix Environmental
QR-10	41.46664/ -72.823797	9/1/2021	Bacteria, Other	E. coli: **>24,200 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.231 mg/L	Phoenix Environmental
QR-11	41.46408/ -72.824739	9/1/2021	Bacteria, Other	E. coli: **1,150 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.100 mg/L	Phoenix Environmental
QR-17	41.462104/ -72.826282	9/1/2021	Bacteria, Other	E. coli: **>24,200 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.400 mg/L	Phoenix Environmental
AB-1	41.424694/ -72.825552	9/1/2021	Bacteria	E. coli: **1,530 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
AB-2	41.424813/ -72.823668	9/1/2021	Bacteria	E. coli: **2,610 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
AB-3	41.428012/ -72.813003	9/1/2021	Bacteria	E. coli: **2,610 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
AB-4	41.428283/ -72.811922	9/1/2021	Bacteria	E. coli: **908 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
MR-1	*41.405734/ -72.804528*	9/1/2021	Bacteria	E. coli: **2,910 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
MR-2	41.406323/ -72.803502	9/1/2021	Bacteria	E. coli: **2,600 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental

2022					
QR-6	41.487533/ -72.820636	6/27/2022	Bacteria, Other	E. coli: **3,650 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.120 mg/L	Phoenix Environmental
QR-8	41.485489/ -72.822444	6/27/2022	Bacteria, Other	E. coli: **13,000 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.308 mg/L	Phoenix Environmental
QR-10	41.46664/ -72.823797	6/27/2022	Bacteria, Other	E. coli: **>24,200 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.231 mg/L	Phoenix Environmental
QR-11	41.46408/ -72.824739	6/27/2022	Bacteria, Other	E. coli: **1,150 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: 0.100 mg/L	Phoenix Environmental
QR-17	41.462104/ -72.826282	6/27/2022	Bacteria, Other	E. coli: **>24,200 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls** Phosphorus: **0.400** mg/L	Phoenix Environmental
AB-1	41.424694/ -72.825552	6/27/2022	Bacteria	E. coli: **1,530 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
AB-2	41.424813/ -72.823668	6/27/2022	Bacteria	E. coli: **4,610 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
AB-3	41.428012/ -72.813003	6/27/2022	Bacteria	E. coli: **2,610 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
AB-4	41.428283/ -72.811922	6/27/2022	Bacteria	E. coli: **908 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
MR-1	*41.405734/ -72.804528*	6/27/2022	Bacteria	E. coli: **2,910 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental
MR-2	41.406323/ -72.803502	6/27/2022	Bacteria	E. coli: **2,600 MPN/100 mls** Total Coliform: **>24,200 MPN/100 mls**	Phoenix Environmental

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
4606-00-1	Low Priority	2
4606-01-1	Low Priority	2
4606-02-1	Low Priority	2
4607-10-1-L1	Low Priority	2
5112-00-2-L1	Problem	7
5112-02-1	Problem	6
5112-02-1-D1	Low Priority	3
5112-02-1-L1	Low Priority	2
5112-03-1	Problem	6
5200-00-4-L3	High Priority	11
5200-00-4-R10	High Priority	13
5200-00-4-R11	Problem	9
5200-00-4-R12	High Priority	11
5200-00-4-R7	High Priority	15
5200-00-4-R8	High Priority	13
5200-10-1	High Priority	11
5200-10-2-R1	High Priority	13

5200-11-1	High Priority	11
5200-12-1	High Priority	12
5200-12-1-L1	High Priority	12
5200-13-1	High Priority	16
5200-14-1	Low Priority	4
5200-14-1-L1	Problem	9
5200-15-1	Problem	9
5200-16-1	Low Priority	2
5200-17-1	Low Priority	4
5200-19-1-L1	Low Priority	5
5204-00-2-L1	Low Priority	5
5204-01-1	Low Priority	3
5204-02-1	Low Priority	5
5206-01-1-L1	Low Priority	4
5206-02-1-L1	High Priority	10
5207-00-1	High Priority	13
5207-00-1-L1	Low Priority	4
5207-00-1-L2	High Priority	12
5207-00-2-R1	High Priority	13
5207-00-2-R2	High Priority	12
5207-01-1	High Priority	13
5207-02-1	Problem	6

5207-02-1-L1	High Priority	13
5208-00-1	Problem	7
5208-00-1-L1	Problem	10
5208-00-2-R1	Problem	7
5208-00-3-L2	Low Priority	5
5208-00-3-L3	High Priority	10
5208-00-3-R1	Problem	9
5208-00-3-R2	High Priority	10
5208-00-3-R3	High Priority	10
5208-00-3-R4	Problem	6
5208-00-3-R5	Problem	6
5208-01-1	Problem	8
5208-02-1	Low Priority	3
5208-02-1-L1	Problem	6
5208-02-2-R1	Problem	8
5208-03-1	Problem	7
5208-04-1	Low Priority	5
5208-04-1-L1	Low Priority	3
5208-05-1	Low Priority	3
5208-05-1-L1	Low Priority	4
5208-06-1	Problem	8
5208-07-1	Low Priority	5

5208-08-1	Problem	8
5208-09-1	Low Priority	3
5302-02-1	Problem	8
5302-04-1-L1	High Priority	11

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
OF-64	*41.49180821/ -72.81826524*	*10/20/2021*	-	-	-	-	-	-	-	*None*	*During dry weather screenings, this outfall was found to have a very slight discharge. Atlas conducted further field investigations, and it was concluded that the discharge was solely that of groundwater influence on the MS4 system, and not of an IDDE.*

2.2 Wet weather sample and inspection data

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

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

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

*System Vulnerability Factors are currently under investigation, and will be added to the next annual report. Refer to **Section 1: Catchment Investigation Data, 3.1 System Vulnerability Factor Summary** for more information.*

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

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

3.1 System Vulnerability Factor Summary

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

Outfall ID	Receiving Water	System Vulnerability Factors
OF-8	Quinnipiac River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-283	Broad Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-284	Broad Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-297	Mill River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-299	Mill River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-300	Mill River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-569	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-570	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-571	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-572	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-573	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-574	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.

OF-575	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-576	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-577	Sawmill Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-578	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-579	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-580	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-584	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-585	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-589	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-591	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-686	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-820	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-822	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-823	Muddy River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-825	Muddy 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 Wallingford's sanitary sewer is currently managed by the Town of Wallingford's Water Pollution Control Authority (WPCA). 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 Wallingford WPCF and the Town of Wallingford Health Department.		

Where SVFs are:

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

3.2 Key junction manhole dry weather screening and sampling data

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
IC-19 (CTDOT interconnection, within 500 ft. of septic failure)	41.47071684/ -72.75116873	6/27/2021	Good condition, no discharge.	N/A	N/A	N/A
IC-31 (Cheshire interconnection, downgradient of septic failure)	41.46522191/ -72.87481588	5/17/2021	Moderate amount of sediment in catch basin, no discharge.	N/A	N/A	N/A
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.						

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
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.					

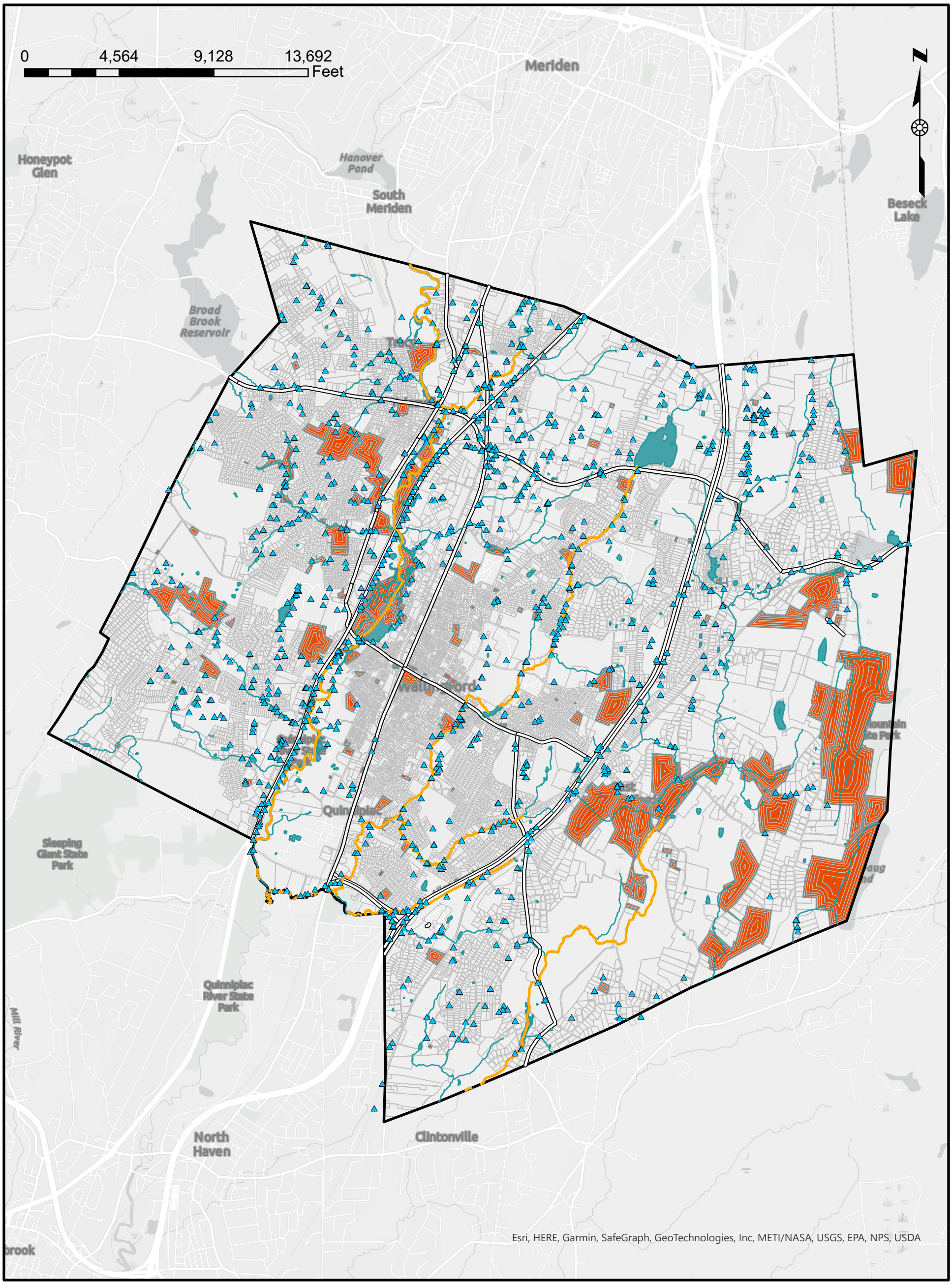
3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed
QR-11	*Senior Center*	*Murky, iridescent*	*Dry Weather Screening*	*5-17-2019*	*N/A*	*N/A*	*N/A*
OF-64	--	*Clear, no odor, slight trickle*	*Dry Weather Screening*	*10-20-2021*	*N/A*	*None.*	*N/A*

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:	Print name: Kay Lehoux, Environmental Compliance Manager, Atlas
Signature / Date:	Signature / Date:
Email:	Email: kay.lehoux@oneatlas.com

FIGURES



Town of Wallingford

2022 Annual Report
MS4 System

Legend

- Outfall
- Impaired Waterbody
- Surface Water
- State Road
- Town Line
- Parcel
- Town-Owned Properties

ATLAS

290 Roberts Street, Suite 301
East Hartford, CT 006108

0 4,564 9,128 13,692 Feet

N

Meriden
Honeypot Glen
Hanover Pond
South Meriden
Beseck Lake
Broad Brook Reservoir
Tracy
Wallingford
Quinnipiac
West Wallingford
Sleeping Giant State Park
Quinnipiac River State Park
Mill River
North Haven
Clintonville
Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

Town of Wallingford

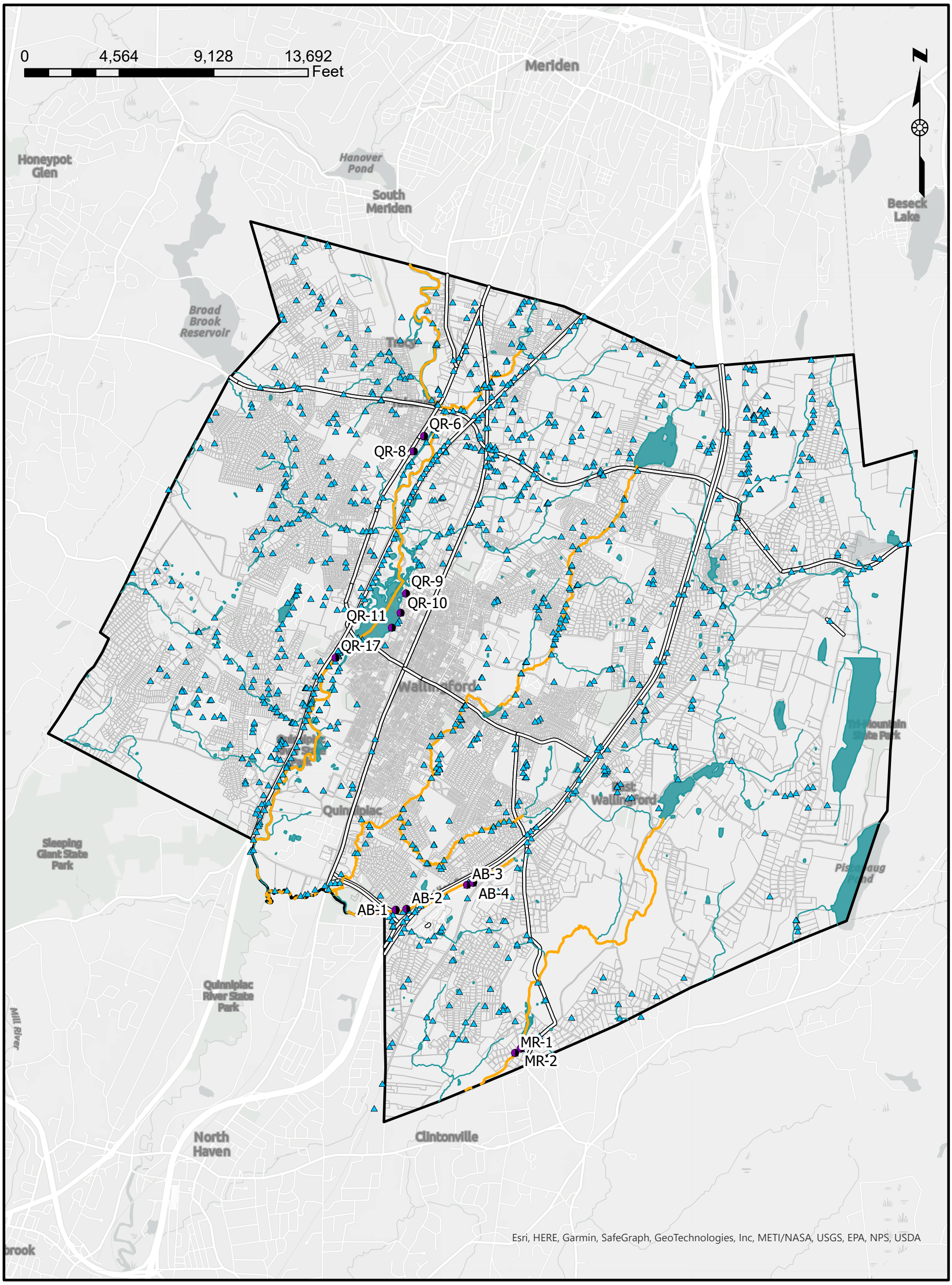
2022 Annual Report

Outfalls to Impaired Waters

Legend

- Outfall
- Outfall to Impaired Waters
- Impaired Waterbody
- Surface Water
- State Road
- Town Line
- Parcel

ATLAS
290 Roberts Street, Suite 301
East Hartford, CT 006108



Town of Wallingford

2022 Annual Report

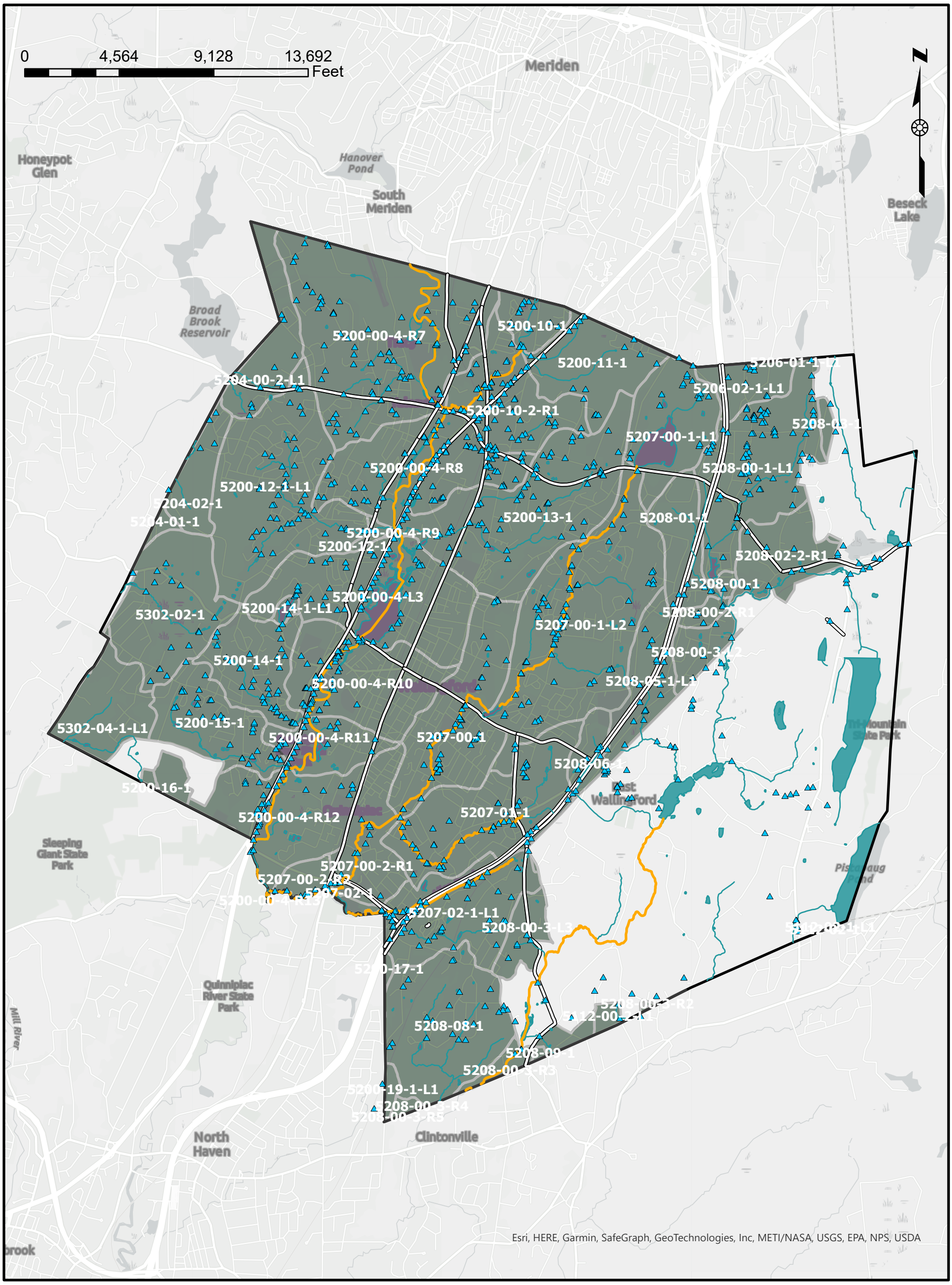
Priority Outfalls

Legend

- Priority Outfall
- Outfall
- Impaired Waterbody
- Surface Water
- State Road
- Town Line
- Parcel

ATLAS

290 Roberts Street, Suite 301
East Hartford, CT 006108



Legend

- Outfall
- Impaired Waterbody
- Surface Water
- State Road
- Town Line

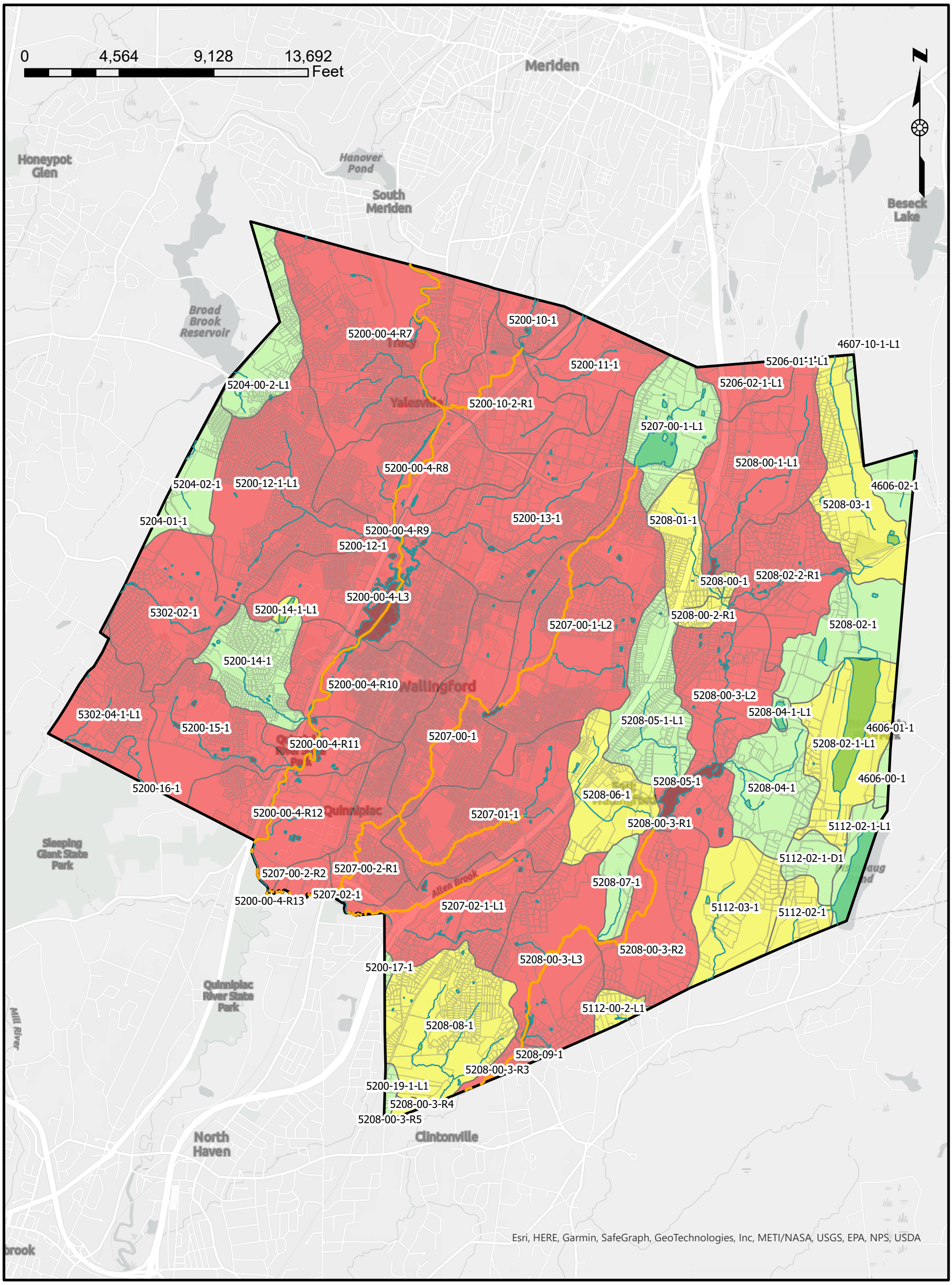
Town of Wallingford

2022 Annual Report

Urbanized Area By Catchment

ATLAS

290 Roberts Street, Suite 301
East Hartford, CT 006108



Town of Wallingford

2022 Annual Report

Catchment Priority Ranking

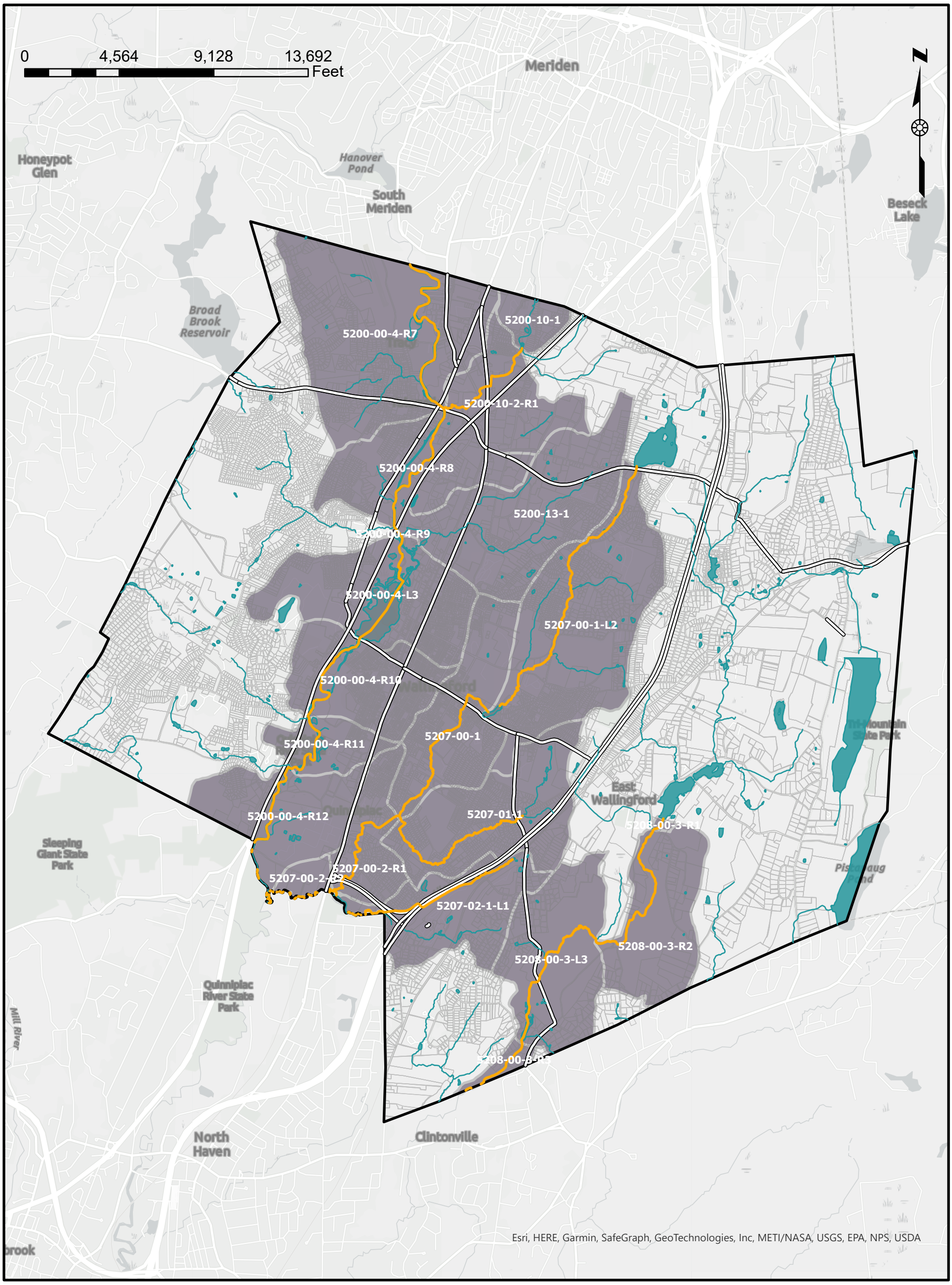
Legend

- Impaired Waterbody
- Surface Water
- Town Line
- Parcel

Priority Ranking

- High Priority
- Problem
- Low Priority

ATLAS
290 Roberts Street, Suite 301
East Hartford, CT 006108



Legend

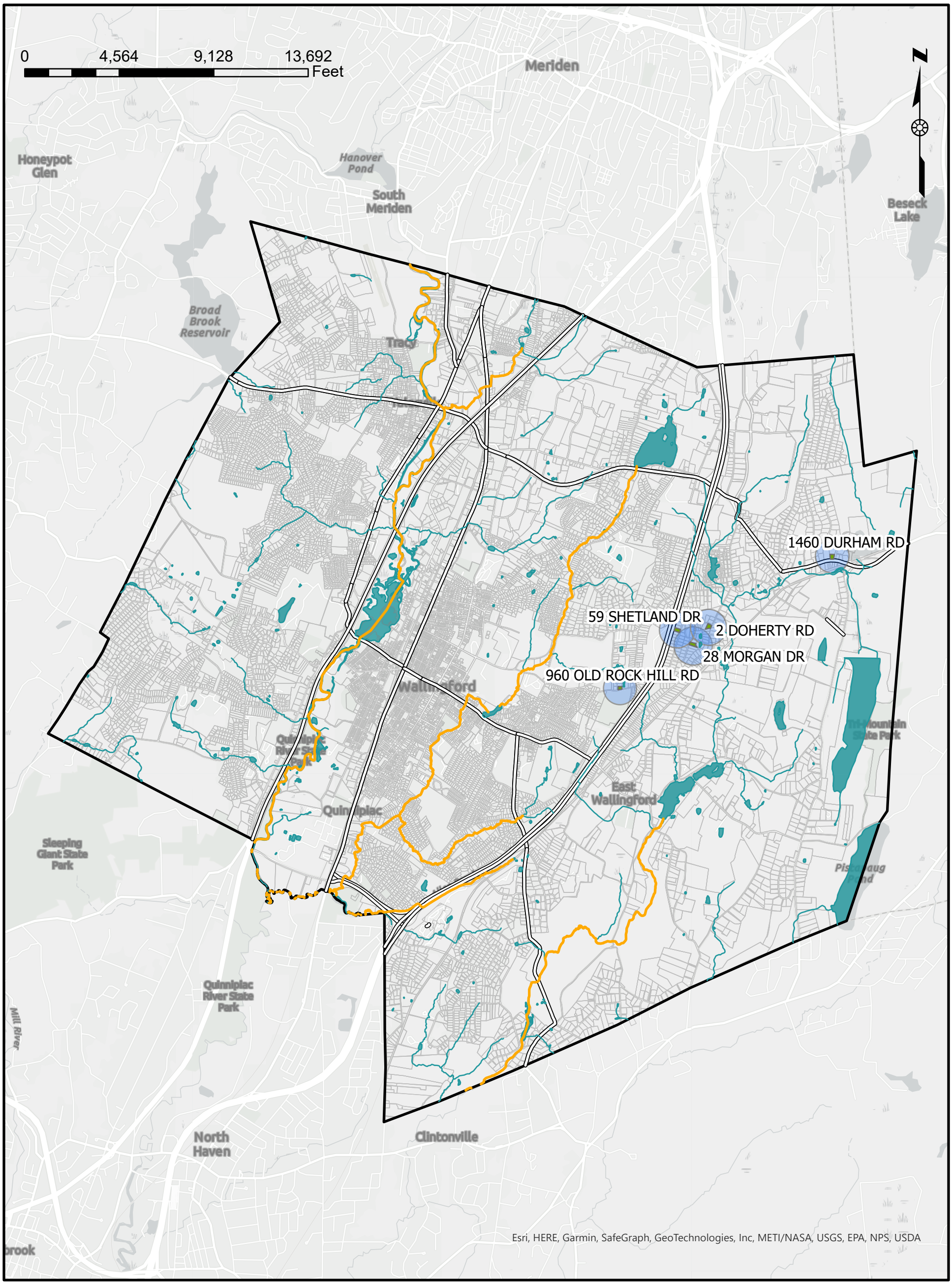
- Impaired Waterbody
- Surface Water
- State Road
- Town Line
- Parcel

Town of Wallingford

2022 Annual Report

Impaired Waters by Catchment

ATLAS
290 Roberts Street, Suite 301
East Hartford, CT 006108



Town of Wallingford

2022 Annual Report

2022 Septic Failures

Legend

- Impaired Waterbody
- Surface Water
- State Road
- Town Line
- Parcel
- 2022 Septic Failure

ATLAS

290 Roberts Street, Suite 301
East Hartford, CT 006108

0 4,564 9,128 13,692 Feet

N

Meriden
Honeypot Glen
Hanover Pond
South Meriden
Beseck Lake
Broad Brook Reservoir
Tracy
Wallingford
Quinnipiac River State Park
Quinnipiac
East Wallingford
Sleeping Giant State Park
Quinnipiac River State Park
Mill River
North Haven
Clintonville

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

Legend

- Impaired Waterbody
- Surface Water
- State Road
- Town Line
- Parcel

Interconnections

- CTDOT
- Cheshire
- Hamden
- Meriden
- North Haven
- Northford

Town of Wallingford

2022 Annual Report

MS4 Interconnections

ATLAS
290 Roberts Street, Suite 301
East Hartford, CT 006108

ATTACHMENT I

Town of Wallingford

MS4 General Permit

Annual Priority Outfall Sampling

Outfall ID	Inspection Date	Outfall Condition	Discharge Description	Field Parameters							Other Parameters		
				Temperature	pH	Dissolved Oxygen	Specific Conductivity	Oxidation-Reduction Potential	Turbidity	Odor?	Phosphorus (mg/L)	Escheriachia Coli	Total Coliforms
				°C	SU	mg/L	uS/cm	MV	NTU			MPN/100mL	
QR-6	6/27/22	Good	light brown tint, clear, very high flow velocity, overgrown and covered with organic debris.	22.6	8.67	7.82	100.1	183.9	**11.76**	No	0.120	**3,650**	**>24,200**
QR-8	6/27/22	Fair	light brown tint, high flow velocity, some foam, some organic debris in outfall.	22.7	7.39	7.09	127.9	200.0	**23.98**	No	0.308	**13,000**	**>24,200**
QR-9	6/27/22	Poor	Light to dark brown to it, many suspended organics.	25.0	6.50	4.55	55.7	205.1	**44.23**	No	0.974	**24,200**	**>24,200**
QR-10	6/27/22	Excellent	very light brown, clear, extremely high flow velocity, some foam.	22.8	6.18	5.53	100.7	222.5	**18.99**	No	0.231	**>24,200**	**>24,200**
QR-11	6/27/22	Excellent	moderate flow velocity, light yellow ish brown tint, clear, some foam.	22.2	6.69	7.27	73.2	221.6	**16.65**	No	0.1	**1,150**	**>24,200**
QR-17	6/27/22	Good	slow flow velocity, brownish yellow tint, clear, some foam.	20.4	6.81	7.07	235.9	235.4	**21.39**	No	0.4	**>24,200**	**>24,200**
AB-1	6/27/22	Fair	slow flow velocity, clear, slightly overgrown.	22.1	7.23	5.97	35.9	199.6	**9.47**	No	--	**1,530**	**>24,200**
AB-2	6/27/22	Good	could not access pitfall due to locked fence. Sampled from catch basin. Brownish yellow tint, some suspended organic sand sediment.	23.5	6.79	5.57	33.3	204.0	**39.94**	No	--	**4,610**	**>24,200**
AB-3	6/27/22	Fair	no discharge, samples from catch basin. Outfall pipe filled partially with sediment. Light brown, some suspended particles.	23.1	6.72	4.52	56.5	211.4	**43.62**	No	--	**2,610**	**>24,200**
AB-4	6/27/22	Good	slow flow velocity, light brown, clear. Rip rap/asphalt swale n good condition.	22.2	7.21	4.70	269.8	222.8	**36.93**	No	--	**908**	**>24,200**
MR-1	6/27/22	Fair	clear, slightly brownish tint, could not locate outfall due to dense vegetation.	20.0	7.42	5.34	495.4	221.6	**7.81**	No	--	**2,910**	**>24,200**
MR-2	6/27/22	Good	Low flow. Light brown tint with some suspended sediment/solids.	21.5	6.99	4.73	224.8	220.6	**42.2**	No	--	**2,600**	**>24,200**

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
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
10. Nitrogen >2.5 mg/L
11. Phosphorus >2.5 mg/L
12. Turbidity >5 NTU

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID
QR-8

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID
QR-6

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID	
QR-9	

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID
QR-10

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID
QR-11

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID
QR-17

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID	
AB-2	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID
AB-1

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID	
AB-3	 

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID	
AB-4	 

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID	
MR-1	

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Wet Weather Sampling*	*2022*

Outfall ID
MR-2

PHOENIX
Environmental Laboratories, Inc.

Friday, July 01, 2022

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

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
SDG ID: GCL64818
Sample ID#s: CL64818 - CL64829

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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,

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

Sample Id Cross Reference

July 01, 2022

SDG I.D.: GCL64818

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING

Client Id	Lab Id	Matrix
QR-6	CL64818	STORM WATER
QR-8	CL64819	STORM WATER
QR-9	CL64820	STORM WATER
QR-10	CL64821	STORM WATER
QR-11	CL64822	STORM WATER
QR-17	CL64823	STORM WATER
AB-1	CL64824	STORM WATER
AB-2	CL64825	STORM WATER
AB-3	CL64826	STORM WATER
AB-4	CL64827	STORM WATER
MR-1	CL64828	STORM WATER
MR-2	CL64829	STORM 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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	10:40
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64818

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: QR-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	3650	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SW9223B-16
Phosphorus, as P	0.120	0.010	mg/L	1	06/28/22	MI	SM4500PE-11

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

Comments:

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Phyllis Shiller, Laboratory Director
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	10:50
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64819

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: QR-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	13000	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SW9223B-16
Phosphorus, as P	0.308	0.010	mg/L	1	06/28/22	MI	SM4500PE-11

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

Comments:

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Phyllis Shiller, Laboratory Director
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	11:15
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64820

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: QR-9

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SW9223B-16
Phosphorus, as P	0.974	0.020	mg/L	2	06/28/22	MI	SM4500PE-11

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

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Phyllis Shiller, Laboratory Director
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	11:35
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64821

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: QR-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SW9223B-16
Phosphorus, as P	0.231	0.010	mg/L	1	06/28/22	MI	SM4500PE-11

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

Comments:

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Phyllis Shiller, Laboratory Director
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	11:50
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64822

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: QR-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	1150	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SW9223B-16
Phosphorus, as P	0.100	0.010	mg/L	1	06/28/22	MI	SM4500PE-11

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

Comments:

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Phyllis Shiller, Laboratory Director
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	12:05
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64823

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: QR-17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SW9223B-16
Phosphorus, as P	0.400	0.010	mg/L	1	06/28/22	MI	SM4500PE-11

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

Comments:

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Phyllis Shiller, Laboratory Director
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	12:35
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64824

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: AB-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	1530	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/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
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	12:50
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64825

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: AB-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	4610	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/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
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	13:05
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64826

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: AB-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	2610	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/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
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	13:20
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64827

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: AB-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	908	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/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
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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Analysis Report

July 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	13:35
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64828

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: MR-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	2910	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/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
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/27/22	13:50
Location Code:	ATC-EHDAS	Received by:	LB	06/27/22	16:47
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL64818
Phoenix ID: CL64829

Project ID: TOWN OF WALLINGFORD MS4 SW SAMPLING
Client ID: MR-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	2600	10	MPN/100 mls	10	06/27/22 17:55	GS/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	06/27/22 17:55	GS/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
July 01, 2022
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2022

QA/QC Data

SDG I.D.: GCL64818

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 630833 (mg/L), QC Sample No: CL64637 (CL64818, CL64819, CL64820, CL64821, CL64822, CL64823)													
Phosphorus, as P	BRL	0.01	4.54	4.44	2.20	105			97.8			85 - 115	20

Comment:

Additional criteria matrix spike acceptance range is 75-125%.

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 01, 2022

Friday, July 01, 2022

Sample Criteria Exceedances Report

Criteria: CT: GBM, GWP, RC, SWP

State: CT

GCL64818 - 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.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** ATC Associates

Project Location: TOWN OF WALLINGFORD MS4 SW S ***Project Number:***

Laboratory Sample ID(s): CL64818-CL64829 ***Sampling Date(s):*** 6/27/2022

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?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☐ Yes ☑ No ☐ NA
4	**Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?**	☑ Yes ☐ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ 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?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☐ Yes ☑ 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:** Friday, July 01, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 01, 2022

SDG I.D.: GCL64818

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 #2 06/28/22-2 Michael Tran, Chemist 06/28/22

CL64818 , CL64819 , CL64820 , CL64821 , CL64822 , CL64823

QC (Batch Specific):

Batch 630833 (CL64637)

CL64818, CL64819, CL64820, CL64821, CL64822, CL64823

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

Temperature Narration

The samples were received at 12.9C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [✓] No [ ]
Coolant: IPK [ ] ICE [✓] No [ ]

PHOENIX
Environmental Laboratories, Inc.

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

Temp 12.9 C Pg of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: luke.whitehouse@oneatlas.com

Customer: Atlas Technical Consultants
Address: 290 Roberts Street
East Hartford, CT 06108

Project: Town of Wallingford MS4 SW Sampling
Report to: Luke Whitehouse
Invoice to: Atlas
QUOTE #

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6/27/02

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	E.Coli	T. Coli	T. Phosphrus	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [X] H2SO4	PL As is [1] 250ml [ ] 500ml [1] 1000ml	PL H2SO4 [X] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
64818	QR-6	SW	6/27	1040	X	X								1				1	
64819	QR-8	SW	6/27	1050	X	X								1				1	
64820	QR-9	SW		1115	X	X								1				1	
64821	QR-10	SW		1135	X	X								1				1	
64822	QR-11	SW		1150	X	X								1				1	
64823	QR-17	SW		1205	X	X								1				1	
64824	AB-1	SW		1235	X													1	
64825	AB-2	SW		1250	X													1	
64826	AB-3	SW		1305	X													1	
64827	AB-4	SW		1320	X													1	
64828	MR-1	SW		1336	X													1	
64829	MR-2	SW		1350	X													1	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6.27.02	16:47

Comments, Special Requirements or Regulations:

CT DAS Rates

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

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

State where samples were collected: CT

Data Format
[ ] Excel
[■] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[■] Phoenix Std Report
[ ] Other

* SURCHARGE APPLIES

ATTACHMENT II

Town of Wallingford
2022 Dry Weather Inspections

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	Iillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-194	5/10/2022	Precast	other	4	Excellent	Yes	Under Toelles Rd bridge abutment	No	No	--	--	-72.82020681	41.48677898
OF-195	5/10/2022	Precast	other	24	Excellent	Yes	Under toelles rd bridge abutment. 24” and 4” pipes.	No	No	--	--	-72.85105585	41.43263649
OF-197	5/10/2022	Concrete	flared end	36	Poor	No	Appears to be a rectangular box culvert. very obstructed	Debris removed and rip-rap installation	No	--	--	-72.85117421	41.43244837
OF-196	5/10/2022	Concrete	other	24	Poor	No	Partially buried catch basin. discharges from base.	Mainteance needed-clearing of catch basin.	Yes	Steady	steady, cloudy discharge with oily sheen and high iron content. prolific algae. no odor	-72.84473649	41.42732478
OF-198	5/10/2022	Riprap	other	N/A	Fair	Yes	Riprapped channel alongside path, leading down to bridge structure.	No	No	--	--	-72.84683506	41.42729087
OF-199	5/10/2022	Plastic	other	12	Good	Yes	Plastic OF pipe behind FedEx facility. Pipe immediately adjacent to culverted stream OF pipe.	No	No	--	--	-72.84231649	41.42663042
OF-200	5/10/2022	Precast	other	12	Poor	No	Clay pipe. Broken in several spots.	Mainteance needed-check integrity of pipe.	No	--	--	-72.84153877	41.42679969
OF-201	5/10/2022	Concrete	hflowdissipa	36	Excellent	Yes	OF pipe in fenced in area of new vegetation. New riprap, silt fence, and hay bales surrounding OF.	No	No	--	--	-72.84104036	41.42688704
OF-210	5/10/2022	Concrete	flared end	24	Excellent	Yes	OF pipe from stormwater detention basin. SDB lid found removed, Atlas personnel replaced cover.	No	No	--	--	-72.8397639	41.42744555
OF-208	5/10/2022	--	--	--	Poor		Embankment heavily overgrown, unknown if OF pipe is obscured by vegetation. Small section of concrete pipe found on stream bank, not connected to anything.	Further investigation needed.	No	--	--	-72.83024431	41.43601952
OF-204	5/10/2022	--	--	--	Poor	No	Embankment partially eroded, OF pipe not visible. Some algae present.	Erosion Control and further investigation needed.	No	--	--	-72.83275051	41.4322992
OF-207	5/10/2022	--	--	--	Fair	Yes	Riprap cuts in curb along I-91 on-ramp	Information should be forwarded to CTDOT.	No	--	--	-72.83518414	41.42952042
OF-205	5/10/2022	Concrete	endwall	48	Good	Yes	Concrete endwall. Good condition.	No	No	--	--	-72.83540845	41.42837466
OF-203	5/10/2022	Concrete	other	unknown	Poor	No	Heavily silted in/eroded. No discharge to stream.	Maintenance-sediment removal.	No	--	--	-72.83701866	41.42831963
OF-206	5/10/2022	--	--	--	Fair	Yes	Riprap cut in curb along I-91 on-ramp. Area appears to have been modified compared to our maps, CBs are no longer present.	Should be reported to CTDOT.	No	--	--	-72.83739162	41.42749474
OF-717	5/10/2022	--	--	--	--	--	Destroyed due to redevelopment	--	--	--	--	-72.83620638	41.42831369
OF-716	5/10/2022	--	--	--	--	--	Destroyed due to redevelopment	--	--	--	--	-72.82802923	41.42474998
OF-714	5/10/2022	--	--	--	--	--	Destroyed due to redevelopment	--	--	--	--	-72.82783407	41.42462603
OF-218	5/10/2022	Concrete	other	24	Good	Yes	Marginal erosion control.	Erosion Control	No	--	--	-72.8272789	41.42426094
OF-216	5/10/2022	Plastic	other	2	Good	No	2x 2” PVC pipes from parking lot	No	No	--	--	-72.81389703	41.45141784
OF-217	5/10/2022	Unknown	Unknown	unknown	Poor	No	No OF pipe found, wet area of tall grass directly in line with CB, OF suspected to be buried below	Further investigation needed.	No	--	--	-72.8178766	41.44782749
OF-229	5/10/2022				Good	Yes	Retention pond	Further investigation needed	No			-72.81911161	41.44779115
OF-228	5/10/2022	Unknown	Unknown	unknown	Poor	No	Embankment filled in with leaves/brush/grass clippings/wood. OF pipe beneath debris, unable to visually inspect.	Maintenance-debris removal.	No	--	--	-72.79351708	41.46794077
OF-757	5/11/2022	Corrugated steel	other	12	Good	Yes	Corrugated steel pipe extending 3 feet from bank	No	No	--	--	-72.79367536	41.46785737
OF-772	5/11/2022	Precast	other	36	Good	Yes	36 in flared end precast structure under highway. appears to be a diverted stream. clear water with moderate algae growth.	No	No	--	--	-72.80051861	41.4151411
OF-771	5/11/2022	Unknown	Unknown	unknown	Unknown	Unknown	Inaccessible. No apparent discharge pipe	Further investigation needed.	No	--	--	-72.80942068	41.42979065
OF-776	5/11/2022	Precast	other	12	--	Yes	12 in flared end located along 91. move point	For CTDOT.	No	--	--	-72.81273267	41.42849927
OF-701	5/11/2022	Precast	flared end	24	Good	Yes	24-in precast behind maintenence shed.	No	No	--	--	-72.81656524	41.42654102
OF-978	5/11/2022	Plastic	other	6	Good	Yes	6-in plastic pipe protruding from embankment from house	Further investigation needed to confirm if there are any illicit connections.	No	--	--	-72.82136799	41.43188482
OF-133	5/11/2022	Precast	flared end	12	Good	Yes	12-in precast flared end. Discharges from 3/4 up embankment	No	No	--	--	-72.8233774	41.43633739
OF-134	5/11/2022	Plastic	other	4	Fair	No	4-in pvc extending from side yard of business	Erosion Control	No	--	--	-72.83164634	41.46030764
OF-136	5/11/2022	Concrete	endwall	36	Good		36" concrete pipe discharging from road. 6-in pvc discharging from buisness.	Further investigation needed-PVC pipe from business.	Yes	Steady	Existing stream bed appears to be gw. PVC pipe has minor ,clear discharge	-72.83207994	41.46048669

Town of Wallingford
2022 Dry Weather Inspections

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	Iillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-142	5/11/2022	Concrete	endwall	10	Good	Yes	(2) 10" concrete pipes on large concrete endwall	No	No	--	--	-72.83434305	41.4595378
OF-354	11/23/2022	Corrugated steel	other	10	Fair	Yes	Corrugated metal pipe with brick sized riprap on top; 6 foot long drainage swale with same riprap, which discharges to intermittent stream; heavy leaf litter blocking pipe	Maintenance-leaf litter removal	No	--	--	-72.81497557	41.44272994
OF-363	11/23/2022		other	0	Poor	No	Outfall covered by leaf litter in wooded area; discharges to perennial pond in residential condo community; no visible erosion control; needs to be cleared	Erosion control and maintenance-leaf litter removal.	No	--	--	-72.85263551	41.4449108
OF-365	11/23/2022	Concrete	flared end	36	Good	Yes	Flared end culvert and conduit of intermittent stream, rip rap erosion control on sides. In residential area going under road.	No	No	--	--	-72.85088197	41.44512
OF-362	11/23/2022	Corrugated steel	other	24	Poor	Yes	Metal culvert with ephemeral stream, rip rap on sides. Pipe is rusted/eroded inside, needs repair. In residential condo community	Maintenance-check integrity of pipe.	No	--	--	-72.85257045	41.44541459
OF-357	11/23/2022	Plastic	other	8	Good	No	Plastic outfall pipe going into flat discharge area, wooded, in residential condo community	No	No	--	--	-72.84997193	41.44583542
OF-358	11/23/2022	Concrete	flared end	12	Good	No	Outfall pipe located at base of landscaped drainage swale; pipe filled with organic material and needs clearing; outfall located in residential condo community adjacent to main road	No	No	--	--	-72.84670494	41.44608702
OF-360	11/23/2022	Concrete	endwall	36	Excellent	Yes	Concrete outfall pipe and end wall in residential condo community; stormwater discharges into ephemeral stream in woods; brick sized riprap along bottom of stream and on banks	No	No	--	--	-72.84648766	41.44488203
OF-361	11/23/2022	Concrete	endwall	36	Good	Yes	Concrete outfall endwall, rip rap erosion control with ephemeral stream, in residential condo community.	No	No	--	--	-72.8475624	41.44513932
OF-352	11/23/2022	Plastic	other	12	Good	Yes	Plastic outfall pipe in residential condo community adjacent to two other outfall pipes; brick sized riprap at mouth of outfall pipe; discharges into small swale	No	No	--	--	-72.84757925	41.44505925
OF-353	11/23/2022	Plastic	other	12	Good	Yes	Plastic outfall going into small swale next to wooded area in residential condo community. Some riprap erosion control. Leaf litter around outfall.	No	No	--	--	-72.84564979	41.44723548
OF-351	11/23/2022	Plastic	other	12	Good	Yes	Plastic outfall going into swale next to wooded area in residential condo community. Riprap erosion control around outfall.	No	No	--	--	-72.84580686	41.44721168
OF-288	11/23/2022	Concrete	flared end	18	Good	Yes	Outfall pipe in wooded area of residential neighborhood; discharges to flat gravel area; no visible riprap	No	No	--	--	-72.84585982	41.44728717
OF-289	11/23/2022	Concrete	flared end	18	Good	Yes	Outfall pipe in wooded area at corner of two roads; discharges to wooded drainage swale; gravel base; medium sized riprap on banks of swale	No	No	--	--	-72.84353354	41.49431243
OF-290	11/23/2022	Plastic	other	8	Fair	Yes	Plastic outfall pipe in wooded area along road; discharges to ephemeral stream; riprap along banks of stream and at discharge pipe outlet; gravel base	No	No	--	--	-72.84290601	41.49398365
OF-433	11/23/2022	--	--	--	--	--	Outfall located in residential yard	Access needed.	No	--	--	-72.84258512	41.49380131
OF-432	11/23/2022	--	--	--	--	--	Outfall located in residential yard	Access needed.	No	--	--	-72.84250094	41.49149362
OF-356	11/23/2022	Plastic	other	12	Good	Yes	Plastic outfall going into wooded area in residential condo community. Riprap around outfall.	No	No	--	--	-72.84207651	41.49057763

Town of Wallingford
2022 Dry Weather Inspections

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	Iillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-969	11/23/2022	Precast	flared end	12	Good	Yes	Metal outfall pipe in wooded area adjacent to highway; asphalt seals immediately adjacent to outfall; water flows down swale and into intermittent stream.	CTDOT Maintained	No	--	--	-72.84617004	41.44646814
OF-968	11/23/2022	Concrete	endwall	36	Fair	Yes	Concrete outfall/ end wall with intermittent stream, behind fence of stop and shop parking lot, at bottom of slope going down from Route 15 highway. Concrete wall perpendicular to slope for erosion control. Wooded area with fallen branches.	CTDOT Maintained	No	--	--	-72.8079862	41.4851179
OF-900	11/23/2022	Concrete	flared end	36	Fair	Yes	Concrete flared end outfall, behind stop and shop, adjacent to busy road intersection. Natural erosion control of thick bushes, with intermittent stream, on top of hill.	No	No	--	--	-72.80798708	41.48504117
OF-519	11/23/2022	Concrete	endwall	36	Good	Yes	Concrete end wall outfall discharges into a 6 ft wide concrete channel, adjacent to roads. In commercial area.	No	No	--	--	-72.8061795	41.48466483
OF-518	11/23/2022	Concrete	endwall	36	Good	Yes	Concrete end wall outfall in 6ft wide concrete channel, adjacent to busy roads, in commercial area.	No	No	--	--	-72.81117247	41.47852203
OF-517	11/23/2022	Concrete	flared end	36	Good	Yes	Concrete outfall pipe located in commercial area adjacent to road; discharges into bio retention swale containing phragmites and cattails	No	No	--	--	-72.81113748	41.4785019
OF-520	11/23/2022	Concrete	flared end	60	Excellent	Yes	Outfall pipe in commercial area adjacent to commercial parking lot; discharges into perennial stream with reedy plant life along banks; brick sized riprap on top and sides of outfall; stream located in wooded area	No	No	--	--	-72.81065772	41.47870478
OF-521	11/23/2022	Concrete	flared end	24	Good	Yes	Flared end concrete outfall discharging into perennial stream within swale. Riprap around outfall. In commercial area.	No	No	--	--	-72.81251434	41.47609566
OF-523	11/23/2022	Plastic	flared end	48	Good	Yes	Plastic flared end outfall discharging into perennial stream, rip rap on top and around the sides of the outfall, in commercial area.	No	No	--	--	-72.81257584	41.47615161
OF-359	11/23/2022	--	--	--	--	--	Overgrown and inaccessible.	Further investigation needed.	No	--	--		
OF-803	11/23/2022	Plastic	flared end	36	Excellent	Yes	Outfall pipe located in commercial area discharging to grassy swale; gravel at mouth of outfall	No	No	--	--	-72.81104737	41.47580502
OF-801	11/23/2022						OF-801- Sewer access	Further investigation needed.				-72.81044516	41.47609028
OF-802	11/23/2022	Concrete	other	24	Fair	No	Concrete outfall discharging into small pond, wooded, in commercial area. Flooded with pond, might need clearing.	Maintenance-potential clearing of debris from pond.	No	--	--	-72.80702193	41.47658466
OF-796	11/23/2022	Concrete	flared end	60	Good	Yes	Outfall pipe located in wooded area of industrial neighborhood; discharges into intermittent stream; gravel and cobbles along bottom of stream; reed like plant life along banks of stream	No	No	--	--	-72.80725542	41.47525622
OF-795	11/23/2022	Precast	flared end	36	Good	No	Metal flared end outfall, discharges into intermittent stream parallel to road. Commercial area.	No	No	--	--	-72.80360259	41.47970819
OF-797	11/23/2022	Precast	flared end	36	Fair	Yes	Metal flared end, flows into intermittent stream within swale parallel to road. Commercial area. Some riprap on sides of outfall.	No	No	--	--	-72.80348542	41.4799022
OF-798	11/23/2022	Unknown	Unknown	Unknown	Poor	Unknown	Buried in leaf litter and overgrowth, needs clearing.	Maintenance-leaf litter removal and brush clearing	No	--	--	-72.80241855	41.4812473
OF-793	11/23/2022	Concrete	other		Poor	No	Concrete outfall buried in leaf litter, needs clearing.	Maintenance-leaf litter removal	No	--	--	-72.80292736	41.4808218
OF-790	11/23/2022	Concrete	flared end	Unknown	Poor	Unknown	Not visible; located in bio retention basin with phragmites and cattails	Maintenance-phragmites and cattail clearing.	No	--	--	-72.80042251	41.47789679
OF-791	11/23/2022	Unknown	Unknown	Unknown	Poor	Unknown	Not visible; located in bio retention basin with phragmites and cattails	Maintenance-phragmites and cattail clearing.	No	--	--	-72.79897301	41.47864634

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-194	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-195	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-197	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-196

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-198	 

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-199	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-200

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-201	

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-210	 

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-208	   

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-204	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-207	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-205	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-203	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-206	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-218	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-216	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-217	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-228	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-757	

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-772	 

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-776	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-701	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-978	

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-133

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-136	

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
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Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-142	

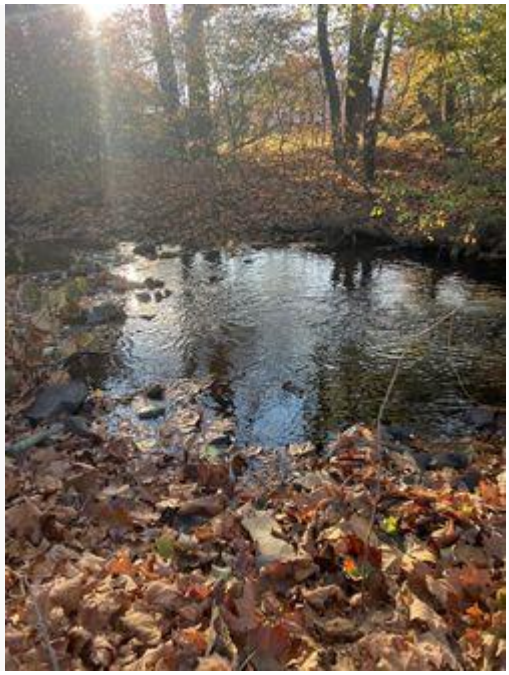
PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

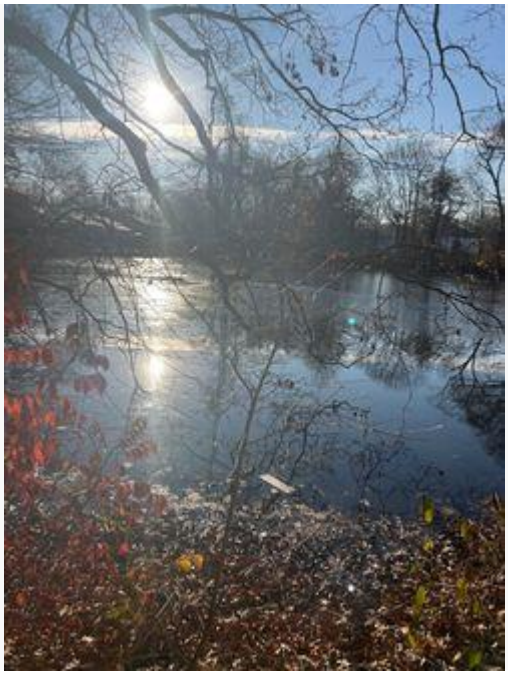
OF-354



PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-363	  

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-365

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-362

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-357

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-358

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-360	   

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-361

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-352

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-351

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-288

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-289

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-290

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-356

PHOTOGRAPHIC LOG

Atlas Technical Consultants, LLC
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East Hartford, CT 06108

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-969	 

PHOTOGRAPHIC LOG

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Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-968

PHOTOGRAPHIC LOG

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Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-900

PHOTOGRAPHIC LOG

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Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-519

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-518

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

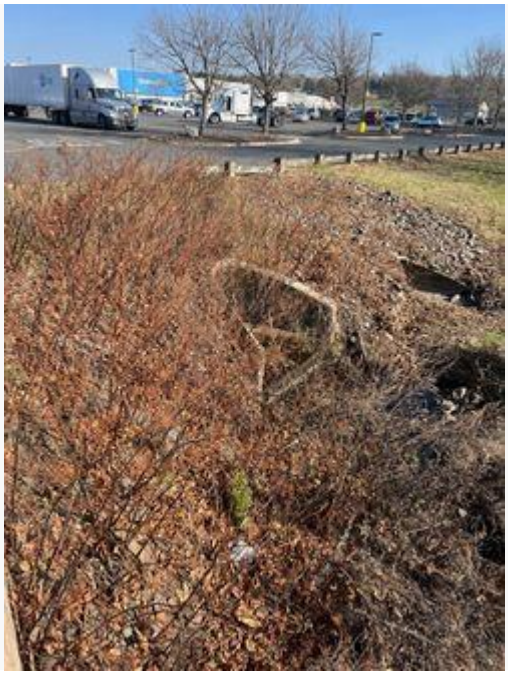
Outfall ID

OF-517

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-520	   

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-521

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-523

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-803

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-802

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-796

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-795

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-797

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID	
OF-798	  

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-793

PHOTOGRAPHIC LOG

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

Client Name:	**Site Location:**	**Date:**
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-791

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-862

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-864

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-126

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID
OF-128

PHOTOGRAPHIC LOG

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

Client Name:	Site Location:	Date:
Town of Wallingford	*Town of Wallingford MS4 Outfalls-Dry Weather Inspections*	*2022*

Outfall ID

OF-130

ATTACHMENT III

Town of Wallingford MS4 General Permit

Catchment Assessment and Priority Ranking

Catchment ID	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 Nearby?	Urbanized Area	DCIA >11%	Impaired Waterbody	Score	Priority Ranking 0-5: Low Priority 6-9: Problem ≥: 10 high Priority
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	Nathan L Jacobson & Associates	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		
4606-00-1	0	None	0	0	0	0	1	1	0		0	Wooded	0	0	0	0	2	Low Priority
4606-01-1	0	None	0	0	0	0	1	1	0		0	Wooded	0	0	0	0	2	Low Priority
4606-02-1	0	Unnamed Stream	0	0	0	0	1	1	0		0	Wooded	0	0	0	0	2	Low Priority
4607-10-1-L1	0	None	0	0	0	0	1	1	0		0	Wooded	0	0	0	0	2	Low Priority
5112-00-2-L1	2	Unnamed Stream	0	0	0	0	1	2	0		3	Wooded, some residential housing, light agricultural land	0	1	0	0	7	Problem
5112-02-1	4	Unnamed Stream	0	0	0	0	1	2	0		3	Wooded, cleared land, light residential housing	0	0	0	0	6	Problem
5112-02-1-D1	0	None	0	0	0	0	1	2	0		0	Wooded, agricultural land	0	0	0	0	3	Low Priority
5112-02-1-L1	0	Unnamed Stream	0	0	0	0	1	1	0		0	Wooded and Pitsapaug Pond	0	0	0	0	2	Low Priority
5112-03-1	1	Unnamed Stream	0	0	0	0	1	2	0		3	Wooded, cleared land, some agricultural land and residential housing	0	0	0	0	6	Problem
5200-00-4-L3	49	Quinnipiac River, Community Lake	0	0	0	3	3	2	0		0	Wooded, some commercial and residential housing	0	1	1	1	11	High Priority
5200-00-4-R10	45	Quinnipiac River	3	0	0	3	3	2	0		3	Commercial development, some residential housing and wooded areas	0	1	1	1	17	High Priority
5200-00-4-R11	20	Quinnipiac River		0	0	3	2	2	0		0	Wooded and commercial, some residential housing	0	1	1	1	10	High Priority
5200-00-4-R12	27	Quinnipiac River	0	0	0	3	2	1	0		3	Wooded, some agricultural land and commercial, light residential	0	1	1	1	12	High Priority
5200-00-4-R7	84	Quinnipiac River	0	3	0	3	2	2	0		3	Commercial, some residential housing, light wooded areas	0	1	1	1	16	High Priority
5200-00-4-R8	81	Quinnipiac River	3	3	0	3	3	2	0		0	Commercial and residential housing, light wooded areas	0	1	1	1	17	High Priority
5200-10-1	14	Meetinghouse Brook	0	3	0	3	2	1	0		3	Residential housing, some commercial and wooded areas	0	1	1	0	14	High Priority
5200-10-2-R1	69	Meetinghouse Brook	0	3	0	3	3	2	0		3	Commercial, light residential housing and wooded, highway	0	1	1	0	16	High Priority
5200-11-1	15	Spruce Glen Brook	0	3	0	0	2	2	0		3	Residential housing, some wooded, light agricultural land, highway	0	1	0	0	11	High Priority
5200-12-1	2	Unnamed Stream	0	3	0	0	2	2	0		3	Commercial, some wooded	0	1	1	0	12	High Priority
5200-12-1-L1	49	Unnamed Stream	0	3	0	0	2	2	0		3	Wooded, some residential housing, light commercial and athletic fields	0	1	1	0	12	High Priority
5200-13-1	62	Padens Brook	0	3	0	3	3	2	0		3	Commercial, some residential housing, light wooded and agricultural land	0	1	1	1	17	High Priority
5200-14-1	38	Unnamed Pond	0	0	0	0	1	1	0		0	Pond, light wooded and residential	0	1	1	0	4	Low Priority
5200-14-1-L1	3	Unnamed Stream	0	0	0	0	2	2	0		3	Some wooded and residential housing	0	1	1	0	9	Problem
5200-15-1	34	Unnamed Streams, Peanuts Pond, Farms Pond, Fergusons Pond	0	0	0	2	3	2	0		3	Residential housing, some agricultural land, light wooded	0	1	0	0	11	High Priority
5200-16-1	0	None	0	0	0	0	1	1	0		0	Wooded	0	0	0	0	2	Low Priority
5200-17-1	0	None	0	0	0	0	1	2	0		0	Light residential housing	0	1	0	0	4	Low Priority
5200-19-1-L1	0	None	0	0	0	0	1	2	0		0	Light residential housing	0	1	1	0	5	Low Priority
5204-00-2-L1	10	Broad Brook	0	0	0	0	2	2	0		0	Wooded, some residential housing	0	1	0	0	5	Low Priority
5204-01-1	0	Broad Brook	0	0	0	0	1	1	0		0	Wooded	0	1	0	0	3	Low Priority
5204-02-1	4	Broad Brook	0	0	0	0	2	2	0		0	Wooded, some residential housing	0	1	0	0	5	Low Priority
5206-01-1-L1	0	High Hill Pond	0	0	0	0	1	2	0		0	Wooded area with a small cleared portion for overhead electrical lines.	0	1	0	0	4	Low Priority
5206-02-1-L1	6	North Farms Reservoir into Wharton Brook	0	0	0	2	3	2	0		0	Developed with commercial or industrial sites. High impermeable areas. Lightly wooded areas	0	1	1	1	10	High Priority
5207-00-1	44	Wharton Brook	0	0	0	3	3	2	0		3	Residential houisng, some cleared land	0	1	1	1	14	High Priority
5207-00-1-L1	17	North Farms Reservoir	0	0	0	3	1	2	0		0	Some commercial, wooded, agricultural land, light residential	0	1	0	0	7	Low Priority
5207-00-1-L2	66	Wharton Brook, Catlin Brook	0	0	0	3	3	2	0		3	Residential housing, some wooded and agricultural land	2	1	0	1	15	High Priority
5207-00-2-R1	11	Wharton Brook	0	0	0	3	3	2	0		3	Residential housing, some commecial, light wooded	0	1	1	1	14	High Priority
5207-00-2-R2	9	Wharton Brook	0	0	0	3	2	2	0		3	Commercial, light wooded	0	1	1	1	13	High Priority
5207-01-1	46	Unnamed Stream	0	0	0	3	3	2	0		3	Residential houisng, commercial, golf course	0	1	1	1	14	High Priority
5207-02-1	**0**	Unnamed Stream	0	0	0	3	1	1	0		0	Wooded	0	1	0	1	7	Problem
5207-02-1-L1	47	Allen Brook	3	0	0	3	3	2	0		3	Commercial and residential housing, highway, golf course	0	1	1	1	17	High Priority
5208-00-1	1	Unnamed Stream	0	0	0	0	1	2	0		3	Wooded, light residential housing	0	1	0	0	7	Problem
5208-00-1-L1	74	Muddy River	0	0	0	2	2	1	0		3	Wooded and commercial, light residential housing	0	1	0	1	10	High Priority
5208-00-2-R1	5	Unnamed Stream	0	0	0	2	1	2	0		3	Wooded and residential hoiusing	0	1	0	0	9	Problem
5208-00-3-L2	11	Mackenzie Reservoir,Unnamed Stream	3	0	0	3	2	2	0		0	Agricultural land, some wooded and residential houisng	2	1	0	0	13	High Priority
5208-00-3-L3	11	Muddy River	0	0	0	3	1	2	0		3	Wooded, light residential housing and cleared land	0	1	0	1	11	High Priority
5208-00-3-R1	0	Muddy River	0	0	0	3	1	2	0		3	Wooded, light residential housing	0	0	0	1	10	High Priority
5208-00-3-R2	3	Muddy River	0	0	0	3	2	2	0		3	Wooded and agricultural land, some residential housing	0	0	0	1	11	High Priority
5208-00-3-R3	3	Muddy River	3	0	0	3	1	2	0		3	Wooded and some residential houisng	0	1	0	1	14	High Priority
5208-00-3-R4	0	Muddy River	0	0	0	2	1	1	0		0	Wooded	0	1	0	1	6	Problem
5208-00-3-R5	0	Muddy River	0	0	0	2	1	1	0		0	Wooded and cleared land	0	1	0	1	6	Problem
5208-01-1	8	Unnamed Stream	0	0	0	0	2	2	0		3	Commercial and wooded, some residential housing, highway	0	1	0	0	8	Problem

Town of Wallingford MS4 General Permit

Catchment Assessment and Priority Ranking

Catchment ID	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 Nearby?	Urbanized Area	DCIA >11%	Impaired Waterbody	Score	Priority Ranking 0-5: Low Priority 6-9: Problem ≥ 10 high Priority
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	Nathan L Jacobson & Associates	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		
5208-02-1	4	Spring Brook	0	0	0	0	1	2	0		0	Wooded, some commercial, light residential housing and agricultural land	0	0	0	0	3	Low Priority
5208-02-1-L1	1	Ulbrich Reservoir, Spring Brook	0	0	0	0	1	2	0		3	Reservoir, some wooded and agricultural land, light residential housing	0	0	0	0	6	Problem
5208-02-2-R1	10	Spring Brook	0	0	0	0	2	2	0		3	Residential housing and wooded	2	1	0	0	10	High Priority
5208-03-1	11	Unnamed Stream	0	0	0	0	1	2	0		3	Wooded and residential housing, light commercial	0	1	0	0	7	Problem
5208-04-1	9	Unnamed Stream	0	0	0	0	1	1	0		3	Pond	0	0	0	0	5	Low Priority
5208-04-1-L1	0	Scards Pond	0	0	0	0	1	2	0		0	Wooded, agricultural land, light residential housing	0	0	0	0	3	Low Priority
5208-05-1	0	Mackenzie Reservoir	0	0	0	0	1	1	0		0	Wooded, reservoir	0	0	1	0	3	Low Priority
5208-05-1-L1	25	Unnamed Streams	0	0	0	0	1	2	0		0	Wooded, some residential housing and agricultural land, highway	0	1	0	0	4	Low Priority
5208-06-1	25	Unnamed Stream	0	0	0	0	2	2	0		3	Agricultural land, some residential, highway	0	1	0	0	8	Problem
5208-07-1	0	Unnamed Stream	0	0	0	0	1	1	0		3	Wooded	0	0	0	0	5	Low Priority
5208-08-1	23	Pine River, Unnamed Streams	0	0	0	0	2	2	0		3	Wooded with residential housing, light cleared land	0	1	0	0	8	Problem
5208-09-1	0	None	0	0	0	0	1	1	0		0	Wooded	0	1	0	0	3	Low Priority
5302-02-1	0	Unnamed Stream	0	0	2	0	2	2	0		3	Residential housing, some wooded areas and marsh, golf course	2	1	0	0	12	High Priority
5302-04-1-L1	16	Butterwoth Brook	0	3	0	0	2	2	0		3	Wooded with residential housing	0	1	0	0	11	High Priority

Scoring Criteria:

[1] 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

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

[3] Receiving water quality based on latest version of State of Connecticut Integrated Water Quality Report.
- Poor = Waters with approved TMDLs (Category 4a Waters) where illicit discharges have the potential to contain the pollutant identified as the cause of the impairment
- Fair = Water quality limited waterbodies that receive a discharge from the MS4 (Category 5 Waters)
- Good = No water quality impairments

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

[5] Age of development and infrastructure:
- High = Industrial areas greater than 40 years old and areas where the sanitary sewer system is more than 40 years old
- Medium = Developments 20-40 years old
- Low = Developments less than 20 years old

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

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

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

[9] Based off of CT NEMO DCIA Calculations

Pending investigation