DRAFT MS4 General Permit
Town of East Lyme 2023 Annual Report
Existing MS4 Permittee
Permit Number GSM 000014
January 1, 2023 – December 31, 2023
Primary MS4 Contact: Alex Klose, Town Engineer, (860) 691-4112, aklose@eltownhall.com

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This report documents the Town of East Lyme's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2023 to December 31, 2023.

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

BMP	**Sources Used** (if applicable)	**Activities in current reporting period**	**Measurable goal**	**Department / Person Responsible**	**Audience (and number of people reached)**	**Method of Distribution**	**Additional details**
1-1 Implement public education and outreach	CT DEEP and FEMA	Collect & distribute stormwater/flooding education materials to public	Educate the public	Engineering Department / Alex Klose	Townwide (Approx. 19,000)	Educational materials available at Public Works Department & (www.eltownhall.com)	Focus on addressing the impacts on water quality and steps to reduce storm water pollution
1-2 Implement public education and outreach	CT DEEP and NEMO	Provide link to UConn NEMO's online library on town website (www.eltownhall.com)	Educate the public	Engineering Department / Alex Klose	Townwide (Approx. 19,000)	Website	Link included on *Storm-water and the Construction Industry* page
1-3 Implement public education and outreach	N/A	Storm drain placards program in Grand Street area storm drainage system	Educate the public	Engineering Department / Alex Klose	Townwide (Approx. 19,000)	Implemented program during spring/summer 2021, physical installation	Placed placards on the Tree Filters in the Grand Street Area network to educated and discourage dumping

1-4 Address education/ outreach for pollutants of concern	Niantic River Watershed Committee	Behavioral change campaign regarding lawn maintenance within the Niantic River Watershed	Reduce Nitrogen to MS4	EPA-Long Island Sound Study / Robert Burg	Regional Website (Approx. 30,000)	Recommendation to implement each year prior to spring/fall fertilizer applications Plan to add link to town website	Brochure available at Niantic River Watershed website: www.healthylawnshealthyriver.net
1-5 Address education/ outreach for pollutants of concern	CT DEEP	Provide information on Town website regarding CT DEEP *Connecticut's Clean Boater Program*	Educate the public	Engineering Department / Alex Klose	Townwide (Approx. 19,000)	Plan to implement during boating season, Spring-Summer 2022	
1-6 Raingarden/barrel BMP outreach and installation	Eastern Connecticut Conservation District	Coordinate with ECCD in the installation of raingardens and distribution of rain barrels to East Lyme residnets	Educate the public and install stormwater BMPs	Eastern CT Conservation District / Dan Mullins	Townwide (Approx. 19,000)	Informational flyers sent out electronically	Project installation complete summer of 2022
1-7 Informational newsletters	East Lyme	Parks and Recreation, various town activities and information	Educate the public	Parks and Recreation / Robin Grandieri	Townwide (Approx. 19,000)	Quarterly brochure (newsletter)	Post articles related to flooding protection and stormwater BMPs
1-8 Informational newsletters (by others)	Save the Sound	Long Island Sound Research	Educate the public	Save the Sound	Townwide (Approx. 19,000)	Summer, Spring and Winter 2022 editions	Newsletter from Save the Sound available on website: https://www.savethesound.org/media-room/newsletter/

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

-Maintain educational signs and baggy/disposal receptacles for pet waste at key locations in East Lyme.
-Maintain tree filters in the Niantic River watershed with Eastern Connecticut Conservation District; funded by CTDEEP Section 319 grant.
-The Town of East Lyme plans to coordinate and begin hosting the Stormwater Environmental Classroom for all East Lyme, Waterford, Salem and Lyme/Old Lyme. This was delayed due to COVID and the current condition of Hole-in-the-Wall outdoor classroom. This is becoming a top outreach priority again for East Lyme. A field trip to Hole in the Wall may be hosted for the Regional Nonpoint Source Management Conference for 2024 this coming April.

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	Location Posted	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan	Complete	Protect Water Quality & Reduce Stormwater Pollutant Discharges from MS4	Provide Opportunity for Public Review/Comment	Engineering Department / Alex Klose	04/03/17 Completion Date	Town Website	Provided Public with a 30 Day Comment Period
2-2 Comply with public notice requirements for Annual Reports	Complete	Status of Compliance, Location & Schedule of BMP's	Provide Opportunity for Public Review/Comment	Engineering Department / Alex Klose	02/14/20 Completion Date	Town Website	Provided Public with a 45 Day Review/Comment Period
2-3 Environmental Cleanup Activities	In Progress	Cleanup Litter & Marine Debris	Stormwater Pollution, Water Quality	Engineering Department / Alex Klose	Anticipate program to run for life of Permit	Town Website and Newsletters	Coordinate with Save the Sound, ECCD, other Volunteer Groups, Parks & Rec. Dept., etc.
2.4 Town Representation with the Southeastern CT Stormwater Collaborative	In Progress	Continued work developing strategic plan to address various MS4 requirements	Share MS4 responsibilities at a regional level	Engineering Department / Alex Klose	Anticipate program to run for life of Permit	N/A	Involvement in stormwater collaborative efforts
2.5 Clean Water Section 319 Grant	Completed	Control nonpoint sources of water pollution	Various BMP's to be considered at various town wide locations	Eastern CT Conservation District / Dan Mullins	Summer 2022 Project Completed	Various - Informational flyers sent out electronically	Grant acquired by & coordinated by Eastern CT Conservation District
2.6 Long Island Sound Future Funds Grant Program	Completed	Wet Weather Outfall Sampling	Water Quality, Stormwater Pollution	Niantic River Watershed Committee / Judy Rondeau	Annual sampling ended in 2021	Email distribution	Grant Funding acquired by NRWC water quality sampling in Niantic River & tributaries

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

Ref. 2.3: Coordinate environmental cleanups with Save the Sound and other volunteer groups.

Ref. 2.4: Stormwater Collaborative working towards grant funding for BMP projects, developing strategies for managing water quality data.

Ref. 2.5: Continue maintenance of BMPs with Eastern Connecticut Conservation District. Potential for more CT DEEP 319 Grant project funding.

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

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	Complete	Town completed written IDDE program using the CT IDDE program template	Continue fine tuning document thru permit period	Engineering Department / P.Giliberto &	August 2018	Track non-stormwater discharges & illicit discharges
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Complete	DCIA/Priority Area mapping completed	Mapping Completed & Available on Town GIS	Engineering Department / P.Giliberto	Summer/Fall 2019	Stormwater Outfall Mapping includes a majority of the associated catch basin & pipe network
3-3 Implement citizen reporting program	Complete	Posted to Town Website, including program, contact & procedure information	Establish system for citizen reporting	Engineering Department / Peter Giliberto	October 2017	Utilize Illicit Discharge Reporting Form for tracking & responding to citizen complaints https://eltownhall.com/government/departments/public-works/engineering/citizen-reporting-suspected-illicit-discharge/
3-4 Establish legal authority to prohibit illicit discharges	Complete	Engineering Dept completed review of existing ordinances & regulations	Apply legal authority within Existing Ordinances & Regulations	Land Use / Engineering Department	Ordinance Adoption	Outlined in Town of East Lyme Public Works - Sewer Ordinance
3-5 Develop record keeping system for IDDE tracking	Complete	Will utilized Illicit Discharge Reporting Form for tracking & responding to citizen complaints	Inspect & respond to citizen reports of illicit discharges	Engineering Department / Peter Giliberto	October 2017	Attempt to investigate & eliminate reported illicit discharges
3-6 Address IDDE in areas with pollutants of concern	Complete-Ongoing	Dry weather screening completed at all mapped outfall locations	Identify IDDE's	Engineering Department / Peter Giliberto	Throughout Permit Period	Ongoing

3-7 Consolidate IDDE tracking spreadsheets	Complete	Compiled all the IDDE tracking requirements into one spreadsheet	Make it easier to track all IDDE activities	Engineering Department / Peter Giliberto	February 2019	Master spreadsheet kept and updated by Engineering Department
3-8 Detailed MS4 Infrastructure Mapping	Complete	Entire catch basin & pipe network mapped during stormwater outfall mapping	Identify & track Illicit Discharges to Storm System	Engineering Department / Peter Giliberto	August 2020	Available on Town GIS; State DOT System added January 2021. The most recent Stormwater Outfall Map is available on our webpage and is available for viewing at the Town Hall.
3-9 SCRRRA Household Hazardous Waste Collection Days	Complete-Ongoing	Encourage proper disposal & recycling of commonly dumped household hazardous wastes	Inform public and decrease pollutants to MS4	Southeastern CT Regional Resources Recovery Authority (SCRRRA)	Completed Every Year; East Lyme combines event with other Towns during years not hosted in East Lyme	Sources for posting information include town website, Facebook page, cable TV channel, & SCRRRA website

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

Maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process.

Implementing new Work Order system into Public Works/Highway Department SOP; provide tracking & history of maintenance & repairs to municipal stormwater system (catch basin, manhole, outlet, & etc.).

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)
141 Main Street Niantic Pump Station	07/18/12 30 mins	Yes Niantic River	10,000-15,000 gal	Failed Pump Controller	Operated pump in manual mode while repairs were made. New pump controller installed & programmed. Recommended redundant system to override pump control in event of future failure. Sampling data by Ledge Light Health District.	07/20/12 "Satisfactory"
8 Atlantic Street McCook Pump Station	10/30/12 40 mins	Yes Long Island Sound	6,000 gal	Hurricane Sandy, Generator Failure	Generator repaired as soon as possible given weather conditions on shoreline. Recommended construction of building enclosure around generator to protect against the elements.	N/A Other Agencies Notified
260 West Main St Bridebrook Pump Station	10/30/12 7.5 hrs	Yes Bridebrook to L.I. Sound	131,100 gal	Hurricane Sandy, Major Generator Failure	Pumper trucks shuttled wastewater to operating downstream pump station. Backup/replacement generator installed. Back-up mobile generator purchased. Generators exercised weekly & regularly maintained.	N/A Other Agencies Notified
141 Main Street Niantic Pump Station	09/10/13 10 mins	Yes Niantic River	500-1,000 gal	Electrical Failure	Damaged components isolated and emergency electrical repairs completed. Evaluated main switch gear for possible upgrade.	N/A
41.3179/-72.2224 Route 156	09/25/13 15 mins	Yes Wetlands	1,000-1,500 gal	Clog in Pump	Setup emergency by-pass pump and dismantled pumps to remove clog. Future wetwell cleanings will include thorough inspection upon completion of cleaning.	N/A
198 Boston Post Rd	01/23/14 0.25 hrs	No	150 gal	Bubbler line froze	Lowered alarm flow and insulated bubbler conduit & installed heat trace to prevent future freeze-ups.	N/A
Intersection of Boston Post Rd & U. Pattagansett Rd	03/09/17 5 hrs	No	4,000 gal	CT DOT Bridge Contractor	Plugged sewer manholes and setup by-pass pump. Repaired damaged section.	N/A
22 Nehantic Drive	10/17/17 1 hour	No	100 gal	Failed (age) UST	New tank installed, Cleanup tracked with CT DEEP by East Lyme Fire Marshal's Office	N/A
41.3470/-72.2128 Society Road	11/08/18 3 mins	Yes	750 gal	Cross Trench/Contractor	10 hour repair, pump station closed, by-pass pump installed, pump truck on standby at pump station	N/A
No Locations	2019	N/A	N/A	N/A	N/A	N/A
No Locations	2020	N/A	N/A	N/A	N/A	N/A

1 Blue Heron Rd	2/23/2021	No	< 1 quart	Vehicle Leak	2/24/2021 Cleaned up with absorbant pads	N/A
No Locations	2022	N/A	N/A	N/A	N/A	N/A
Note: The East Lyme Water & Sewer Commission is completing an existing conditions assessment of the Niantic force main; a proactive approach for future planning to consider a potential redundant & replacement force main. Applied for a FEMA grant to consider retrofitting flood mitigation measures into sewer pump stations located in the flood zone. Ongoing repair & maintenance to sewer pump stations to add efficiency & resiliency to the sewer infrastructure. From a vulnerability standpoint, all of the wastewater pumping stations are equipped with emergency standby power; either onsite or via town-owned mobile power generators.						

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
See Note*	04-27-2017 - #7 Whitney Lane, Residential Structure, Sewage backing up into house	Repairs initiated by septic installer before need for issuance of Public Health Order	Bride Brook, Subregional Basin #2206, Not Impacted	Ledge Light Health District
See Note*	05/08/2017 – #22 Parker Drive, Residential Structure, Sewage backing up into house	Repairs initiated by septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	06/21/2017 - #26 Dean Road, Residential Structure, Effluent breakout to ground	Repairs initiated by septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	07/20/2017 - #26 Grand Street, Residential Structure, Septic tank collapsed	Repairs initiated by septic installer before need for issuance of Public Health Order	Niantic River, Subregional Basin #2204, Not Impacted	Ledge Light Health District
See Note*	08/14/2017 - #27 Bush Hill Drive, Residential Structure, Sewage backing up into house	Repairs initiated by septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	08/14/2017 - #14 Corey Lane, Residential Structure, Sewage backing up into house	Repairs initiated by septic installer before need for issuance of Public Health Order	Southeast Shoreline, Subregional Basin #2200, Not Impacted	Ledge Light Health District
See Note*	08/22/2017 - #168 Roxbury Road, Residential Structure, Sewage backing up into house	Repairs initiated by septic installer before need for issuance of Public Health Order	Southeast Shoreline, Subregional Basin #2200, Not Impacted	Ledge Light Health District
See Note*	09/20/2017 - #10 River Road, Residential Structure, Septic tank collapsed	Repairs initiated by septic installer before need for issuance of Public Health Order	Niantic River, Subregional Basin #2204, Not Impacted	Ledge Light Health District
See Note*	10/24/2017 – #40 Mayfield Terrace, Residential Structure, Septic failure	Repairs initiated by septic installer before need for issuance of Public Health Order	Latimer Brook, Subregional Basin #2202, Not Impacted	Ledge Light Health District

See Note*	10/25/2017 - #19 Huntley Court, Residential Structure, Collapsed Drywell	Repairs initiated by septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	November, 2017 – #12 Corey Lane, Residential Structure, Sewage backing up into house	Repairs initiated by septic installer before need for issuance of Public Health Order	Southeast Shoreline, Subregional Basin #2200, Not Impacted	Ledge Light Health District
See Note*	11/14/2017 - #91 Riverview Road, Unit #1, Residential Structure, Effluent breakout to ground	Repairs initiated by septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	12/05/2017 - #7 North Ledge Rock Road, Residential Structure, Sewage backing up into house	Repairs initiated by septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	6/2018 - #22 Parker Drive, Residential Structure, Sewage backing up into house	Repairs initiated by septic installer prior to sale of home, no need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	10/2018 - #10 Sunnieside Drive, Residential Structure, Effluent breakout to ground	Repairs initiated by septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	11/2018 - #14 Knollwood Road, Residential Structure, Effluent breakout to ground	Repairs initiated by septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	06/2019 - #13 Dean Road, Residential Structure, SSDS System Failed Prematurely	Repairs initiated by owner/septic installer before need for issuance of Public Health Order	Bride Brook-02, Subregional Basin #2206, Not Impacted	Ledge Light Health District
See Note*	04/2020 - #38 Riverview Road, Residential Structure	Repairs initiated by owner/septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	05/2020 - #2 Echo Road, Residential Structure, SSDS System Failed Prematurely	Repairs initiated by owner/septic installer before need for issuance of Public Health Order	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	07/2021 - #109 Chesterfield Road, Residential Structure, SSDS System Failed Prematurely	Repairs initiated by owner/septic installer before need for issuance of Public Health Order	Latimer Brook, Subregional Basin #2202, Not Impacted	Ledge Light Health District
See Note*	3/2022 - #107 Riverview Road	Owner/installer initiated repair	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	3/2022 - #38 Laurel Hill Road	Owner/installer initiated repair	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	3/2022 - #50 Bush Hill Drive	Neighbor complaint initiated a response and follow up from LLHD - repair completed	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	6/2022 - #13 Joval Street	Owner initiated repair	Latimer Brook, Subregional Basin #2202, Not Impacted	Ledge Light Health District
See Note*	7/2022 - #5 Quarry Dock Road	Owner/installer initiated repair	Niantic River, Subregional Basin #2204, Not Impacted	Ledge Light Health District

See Note*	7/2022 - #30 South Cobblers Court	Owner/installer initiated repair	Southeast Shoreline, Subregional Basin #2000, Not Impacted	Ledge Light Health District
See Note*	8/2022 - #11 Roxbury Court	Owner/installer initiated repair	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	9/2022 - #3 Joan Street	Owner/installer initiated repair	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	11/2022 - #43 Forest Road	Neighbor complaint initiated a response and follow up from LLHD - repair completed	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	7/2023 - #43 Fairhaven Road	Owner/installer initiated repair	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
See Note*	11/2023 - #202 Pennsylvania Avenue	Owner/installer initiated repair	Pattagansett River, Subregional Basin #2205, Not Impacted	Ledge Light Health District
	*Note: Ledge Light Health District (LLHD) tracks “failing” septic systems, as defined by the Public Health Code (sewage backing up into the house or effluent coming to the surface of the ground). All repairs require permits to be taken out and are inspected and approved by LLHD.			

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

The Public Works and Engineering Departments are responsible for tracking & responding to illicit discharge reports; hard copies of the reports are filed in the Public Works Department. The Town's Municipal Utility Engineer is responsible for tracking & responding to SSO's; Hard copies of the reports are filed in the office of the Municipal Utility Engineer. The Fire Marshal is responsible for tracking & responding to illicit discharge reports related to spills. Reporting procedures are coordinated by the Fire Marshal with the CT DEEP, when necessary. Hard copies of the reports are filed in the office of the Fire Marshal at the Department of Public Safety.

3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	237
Estimated or actual number of interconnections	12
Outfall mapping complete	100%
Interconnection mapping complete	100%
System-wide mapping complete (detailed MS4 infrastructure)	100%
Outfall assessment and priority ranking	100%
Dry weather screening of all High and Low priority outfalls complete	100%
Catchment investigations complete	40 of 65
Estimated percentage of MS4 catchment area investigated	60%

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 is it given (minimum once per year).

The IDDE training program is completed at the end of winter operations for all employees that are involved in outside operations; including the Highway Department, Parks & Recreation, Water & Sewer Department, and Building & Grounds. Topics discussed during the "Tailgate Talk" style training include an overview, goals, and operation & maintenance of the MS4 program; including IDDE responses and reporting procedures for town personnel. Stormwater Training (MS4 and Industrial Discharge GP) is given to key personnel at least once a year, usually in the winter, just prior to spring.

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

4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	In Progress	Engineering Dept completed thorough review of existing ordinances & regulations	Provide legal enforcement options for Town to reduce illicit discharges	Land Use / Engineering Department	2023-2024	Review findings with land use and appropriate boards & commissions
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete	Application materials distributed to appropriate departments for review	Review applications for development	Land Use Departments / Gary Goeschel & Bill Mulholland	System in-place since beginning of permit	Appropriate department are involved in reviews for all applications for development
4-3 Review site plans for stormwater quality concerns	Complete	Water Quality guidelines per CT DEEP manual followed	Review applications for development	Engineering Department / Alex Klose	System in-place since beginning of permit	Stormwater Management requirements in Town Subdivision Regulations
4-4 Conduct site inspections	Complete	Site inspection and written review provided to Land Use Departments	Review as-built vs proposed plans	Engineering Department / Alex Klose	System in-place since beginning of permit	Certificate of Occupancy not issued until all concerns satisfied
4-5 Implement procedure to allow public comment on site development	Complete	Public hearings, application file available for review, & town staff available for questions	Minimize polluted stormwater runoff	All Departments	System in-place since beginning of permit	Public comment opportunities provided for applications that require a public hearing
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Complete	Request applicant provide copy of Stormwater Pollution Control Plan to Land Use & Engineering Departments	Provide for construction BMP's	Land Use & Engineering Departments	System in-place since beginning of permit	Notification of permit requirement during application review process

4-7 Stormwater & the Construction Industry Poster	Complete	Posted on Town Website	Follow EPA Stormwater Compliance Guidelines	Engineering Department / Alex Klose	2020	Discussed with contractors & developers during application review process https://eltownhall.com/government/departments/public-works/engineering/storm-water-and-the-construction-industry/

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

Engineering Dept completed thorough review of existing ordinances & regulations. Review findings with land use and appropriate boards & commissions.

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

5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In Progress	Engineering Dept completed thorough review of existing ordinances & regulations	Pursue Legal Authority options	Land Use & Engineering Departments	2023-2024	Review findings with land use and appropriate boards & commissions
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing	Engineering Dept completed thorough review of existing ordinances & regulations	Continue to follow guidelines in CT Stormwater Quality Manual	Land Use & Engineering Departments	July 1, 2019	Review findings with land use and appropriate boards & commissions
5-3 Identify retention and detention ponds in priority areas	Complete	Pond & Treatment Structures Log	Send long term maintenance notification to property owners	Engineering Department / Peter Giliberto	December, 2018	Priority Areas with DCIA ≥11% or Discharge to Impaired Waters
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	Complete	Written Long Term Maintenance Plan (the Plan) and Schedule of Stormwater Pond & Treatment Structures or Measures	Incorporate into Legal Authority	Engineering Department / Peter Giliberto	December, 2018	The Town will oversee the implementation of the Plan and schedule

5-5 DCIA mapping	Complete	DCIA mapping of all 64 CT DEEP local basin boundaries	DCIA Retrofit, DCIA Baseline	Engineering Department / Peter Giliberto	November, 2018	Provides starting point for priority rankings and investigation of potential sources of illicit discharges
5-6 Address post-construction issues in areas with pollutants of concern	Ongoing	Continue to follow guidelines in CT Stormwater Quality Manual	Minimize Impervious Surfaces	Land Use & Engineering Departments	On-Going	Reduce Stormwater Pollutants/Sources & Implement Long Term Stormwater Management
5-7 Work Completed by the Town of East Lyme in 2022	Ongoing	Catch basing cleaning, inspections, low impact BMP's, drainage improvements	Increased maintenance & inspection of Town's MS4	Engineering Department / Alex Klose	Annual Work	Reduce Stormwater Pollutants

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

LID BMP's were installed in the Niantic River Watershed, directly affecting runoff to Latimer Brook, through CT DEEP 319 Grant and with the Eastern CT Conservation District. Research Land Use records for Long Term O&M Plans at listed stormwater basins; notify property owners thru Zoning Department (Per 5.1, 5-4). Will continue vacuum cleaning catch basins throughout the MS4; especially those associated with pavement preservation/improvement projects and after significant storm/flooding events. Town road paving projects that include full depth reclaim or re-construction will consider analysis of decreasing existing road widths prior to paving.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA) * Revised 2/16/2021 to consider DOT Roads IC reductions & basin boundaries "clipped" to town boundary	565.22 acres
DCIA disconnected (redevelopment plus retrofits)	2.4 acres this year / 23.2 acres total
Retrofits completed	18
DCIA disconnected	0.42% this year / 4.1% total since 2012
Estimated cost of retrofits	$ 164,446
Detention or retention ponds identified	0 this year /13 total

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

Town GIS system, CT ECO MS4 Viewer, CT ECO Elevation (Lidar) Viewer, & Field Verifications. Analyzed impervious coverage (MS4 Map Viewer) for each CT DEEP local basin in East Lyme. Used UCONN CLEAR equations to calculate estimates for DCIA.

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

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	Complete/In Progress	Spill & response protocols and identifying illicit discharges	Increase awareness of water quality issues	Engineering Department / Alex Klose	December 2021; provide training in April during each year of the permit period	To be implemented to town staff at end of winter operations
6-2 Implement MS4 property and operations maintenance	Ongoing	Town Parks & Rec Dept. documents use of Fertilizer & Pesticide	Minimize Discharge of Pollutants	Public Works / Parks & Rec	Thru Permit Period; Consider developing written component to each subsection	Town currently covers most aspects of the property and O&M section of the permit
6-3 Implement coordination with interconnected MS4s	Complete	Coordinated mapping component with CT DOT and added layers to Town GIS	Identify potential pollutant areas & sources	Engineering Department / Peter Giliberto	December, 2020	Will continue to encourage DOT to retrofit BMP's as they progress with their permit
6-4 Develop/implement program to control other sources of pollutants to the MS4	Ongoing	Engineering Dept completed thorough review of existing ordinances & regulations	Review findings with land use and appropriate boards & commissions	Land Use & Engineering Departments	2024-2025	Engineering Dept completed thorough review of existing ordinances & regulations
6-5 Evaluate additional measures for discharges to impaired waters	Not started	Map & Inventory highly erosive areas in town ROW	Identify potential pollutant areas & sources	Engineering Department / Peter Giliberto & Alex Klose	2024-2025	Reduce sedimentation to waterways near Town ROW's
6-6 Track projects that disconnect DCIA	Ongoing	Completed calcs of DCIA in catchment areas involving disconnect projects	Improve water quality	Engineering Department / Peter Giliberto	November, 2018; Town will continue to track projects over the course of the permit period	Town has listed DCIA disconnection projects since July 1, 2012
6-7 Implement infrastructure repair/rehab program	In Progress	Coordinate drainage infrastructure review with pavement management plan	Retrofit LID measures and BMP's	Public Works, Engineering, & Highway Depts.	May, 2019 thru permit period	Annual review of pavement management plan

6-8 Develop/implement plan to identify/prioritize retrofit projects	Ongoing	Impervious surface reductions and stormwater runoff disconnects from storm drain system	Improve water quality	Public Works, Engineering, & Highway Depts.	November, 2018 Town has met the 2% DCIA disconnect requirement	Retrifits considered for pavement management and drainage infrastructure improvement projects
6-9 Implement retrofit projects to disconnect 2% of DCIA	Complete	Completed calcs of DCIA in catchment areas involving disconnect projects	Improve water quality	Engineering Department / Peter Giliberto	November, 2018; Town has met the 2% DCIA disconnect requirement	Town has listed DCIA disconnection projects since July 1, 2012
6-10 Develop/implement street sweeping program	Ongoing	Spring sweeping list focuses on areas with increased pollutant potential	Identify potential pollutant areas & sources	Highway Department / Justin Porter	Jul 1, 2017	Current program includes townwide sweeping of all streets & parking areas at least once per year
6-11 Develop/implement catch basin cleaning program	Ongoing	The Town inspects catch basins on as needed basis	Reduce pollutants to impaired waters	Highway Department / Justin Porter	Ongoing	Looking at possibilities to get all Catch Basins in town cleaned over the next two years
6-12 Develop/implement snow management practices	Continue	Track amount of deicing material used during each storm	Minimize Salt Exposure to Stormwater	Public Works / Joe Bragaw	July, 2018 Continue thru permit period	Consider training for deicing applications for town employees
6-13 Coordinate Commercial Application of Pesticide Use with Parks & Recreation Department	Continue	P&R Limits use of Pesticides in Priority Areas	Reduce pollutants to impaired waters	Engineering Department / Alex Klose	Ongoing	P&R provides Annual Summary Report of Pesticide Usage

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

Review organic fertilizers, pesticides, & herbicides program with Parks & Recreation Department, for those Town owned properties that drain to impaired waterbodies.

Locate all existing dog waste stations, consider adding more stations in the MS4, and provide Pet Waste Management outreach & education to the entire MS4.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes 1/2024
Street sweeping	
Curb miles swept	228 miles
Volume (or mass) of material collected	±300 tons
Catch basin cleaning	
Total catch basins in priority areas	1101
Total catch basins in MS4	2550
Catch basins inspected	-
Catch basins cleaned	330
Volume (or mass) of material removed from all catch basins	±10 tons
Volume removed from catch basins to impaired waters (if known)	-
Snow management	
Type(s) of deicing material used	International Salt Treated with Ice B'Gone II
Total amount of each deicing material applied	1,200 tons
Type(s) of deicing equipment used	Trucks w/Preset Mechanical Spreaders
Lane-miles treated	228 miles
Snow disposal location	Veterans Field Parking Lot at Memorial Park Drive (Occasional)
Staff training provided on application methods & equipment	No – N/A for Current Equipment
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	10% N & P Since 2015
Reduction in turf area (since start of permit)	0.3 acres (increase)
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	0 / Veterans Memorial Park Rain Garden

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program
The Town contracts annually with a vac truck company to clean a percentage of the catch basins. Cleaning & inspection dates and for each individual catch basin are digitally logged into the Town Arc GIS system. Prior to repaving most roads, the town contracts a jet/vacuum truck to clean the catch basins and completes a video inspection of the catch basins & interconnected pipe network.

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)
To date, the Town of East Lyme has satisfied the 2% retrofit required by the permit, the Town is now up to more than 4% DICA removal since 2012. The Town will continue to identify MS4 structures to repair, rehabilitate, or upgrade to reduce or eliminate the discharge of pollutants into water bodies. The Town will continue to work with outside entities to obtain grants aimed at enhancing the Town's MS4 and treating polluted stormwater runoff while providing regular stormwater maintenance from it's highway budget.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years. (Due 7/1/22)
The Town will continue to pursue the recommended goal of disconnecting 1% DCIA per year. As town owned road paving projects progress, the Town will continue to analyze necessary road widths prior to paving, in an attempt to decrease impervious coverages and DCIA. The Town will continue to pursue grants partner with groups to encourage Low Impact Development projects on Town owned properties and Town road rights-of-way. The Engineering Department will continue to review projects referred by the Land Use Departments (Building, Wetlands, Planning, & Zoning Departments); with a focus on treating water quality and reducing stormwater pollutants.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: http://s.uconn.edu/ctms4map.

Nitrogen/ Phosphorus ☒ Bacteria ☒ Mercury ☒ Other Pollutant of Concern ☒

1.2 Describe program status.

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.
1) Bacteria is high, likely due to Land Use, for most outfalls. This needs to be further investigated.

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

2.1 Impaired waters wet weather screening data

Outfall ID	Latitude / Longitude		Sample date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Bacteria, E. coli (col/100ml)	Bacteria, Total Coliform (col/100 ml)	Bacteria, Fecal Coliform (col/100ml)	Bacteria, Enterococci (col/100ml)	Turbidity (NTU) at Outfall	Follow-up required? *
1	41.32707	-72.1863	12/7/2022	0.33	0.066			96	2480	0.5	Yes
2	41.32853	-72.1861	12/7/2022	0.61	0.077			20	288	0.34	Yes - See Dry Reuslts
3	41.32674	-72.1871	12/7/2022	0.47	0.03			<10	331	1.17	No
4	41.32555	-72.1861	12/7/2022	0.6	0.074			75	455	2.49	Yes
8	41.33927	-72.1908	12/16/2022	1.49	0.189			2160	>48400	3.91	Yes
12	41.33819	-72.1874	12/16/2022	0.37	0.086			700	18400	1.14	Yes
13	41.34153	-72.1855	12/16/2022	0.76	0.207			786	6150	5.25	Yes
14	41.34346	-72.1887	12/16/2022	1.4	0.22			126	1590	7.79	Yes
15	41.34421	-72.1896	12/16/2022	1.02	0.265			62	6150	4.22	Yes
16	41.34287	-72.1868	12/16/2022	2.08	0.509			150	214	9.04	Yes
17	41.30443	-72.2316	10/5/2020					1500			Yes
18	41.32141	-72.1955	12/7/2022					110	1200	2.52	Yes
19	41.30444	-72.2315	10/5/2020					840			Yes
23	41.31494	-72.2018	12/7/2022					52	1660	0.19	Yes
26	41.30491	-72.2176	9/22/2022					15400	12000		Yes
27	41.30671	-72.2178	9/22/2022					1150	6900		Yes
28	41.30807	-72.2175	12/16/2022					7750	570		Yes
30	41.30755	-72.2046	12/7/2022					41	771	0.87	Yes
31	41.38378	-72.214	9/22/2022			6900	>48400				Yes
32	41.38385	-72.2143	9/22/2022			1970	>48400				Yes
33	41.31135	-72.2059	12/7/2022					97	243	1.1	Yes
34	41.31135	-72.2033	9/1/2021					3850		24.86	Yes
35	41.31132	-72.2033									Yes
36	41.33694	-72.1846	12/7/2022	0.3	0.027			108	2760	1.74	Yes
37	41.33553	-72.1879	12/7/2022	0.23	0.026			75	1380	0.65	Yes

38	41.33506	-72.1881	12/7/2022	0.26	0.024			85	1570	0	Yes
39	41.37516	-72.2082	11/30/2022			63	8660				Yes
40	41.37123	-72.2096	9/22/2022			378	>48400				Yes
41	41.37148	-72.2082	9/22/2022			1020	9220				Yes
42	41.37139	-72.2086	9/22/2022			270	>48400				Yes
43	41.37123	-72.2086	9/22/2022			2090	>48400				Yes
45	41.37359	-72.2106	9/22/2022			11000	>48400				Yes
46	41.37479	-72.2094	9/22/2022			2800	>48400				Yes
47	41.3764	-72.2091	9/22/2022			10300	>48400				Yes
48	41.37716	-72.2108	9/22/2022			798	>48400				Yes
49	41.37824	-72.2114	11/30/2022			41	19900				Yes
50	41.37918	-72.2116	11/30/2022			20	>24200				Yes
51	41.38084	-72.2125	9/22/2022			506	>48400				Yes
52	41.38194	-72.213	9/22/2022			2400	>48400				Yes
53	41.38131	-72.2115	9/22/2022			20900	>48400				Yes
56	41.38333	-72.2132	9/22/2022			4090	>48400				Yes
57	41.38195	-72.2135	9/22/2022			13000	>48400				Yes
58	41.38021	-72.2139	9/22/2022			7310	>48400				Yes
61	41.38724	-72.2171	11/30/2022			120	24200				Yes
62	41.38138	-72.2106	9/22/2022			1250	>48400				Yes
66	41.3865	-72.214	11/30/2022			86	>24200				Yes
67	41.38743	-72.2156	11/30/2022			216	>24200				Yes
68	41.38864	-72.2158	11/30/2022			121	>24200				Yes
72	41.39117	-72.2202	11/30/2022			148	>24200				Yes
76	41.37666	-72.2083	11/30/2022			52	7270				Yes
81	41.30934	-72.2079	12/7/2022					30	908	1.72	Yes
82	41.30623	-72.2072	12/7/2022					422	857	0.99	Yes
83	41.2885	-72.2123	9/22/2022					17300	28300	2.3	Yes
85	41.30543	-72.2053	12/7/2022					373	4110	0.86	Yes
86	41.3015	-72.2045	12/7/2022					52	512	1.62	Yes
87	41.30021	-72.2044	12/7/2022					97	408	1.92	Yes
88	41.29886	-72.2042	12/7/2022					624	1600	0.06	Yes

89	41.29762	-72.2038	12/7/2022					404	1850	5.07	Yes
90	41.29695	-72.2036	12/7/2022					301	2010	2.08	Yes
91	41.29634	-72.2034	12/7/2022					1720	6490	1.84	Yes
92	41.29572	-72.2031	9/22/2022					4490	5230	14.43	Yes
93	41.29496	-72.2028	12/7/2022					187	450	3.45	Yes
95	41.29744	-72.2152	9/22/2022					48400	31100		Yes
96	41.29814	-72.2154	9/22/2022					28300	39700		Yes
97	41.29991	-72.2158	9/22/2022					11000	8700		Yes
+ 99	41.32777	-72.1959	11/30/2022			41	>24200			8.3	Yes
108	41.39739	-72.2226	11/30/2022			638	6130				Yes
120	41.30288	-72.2049	12/7/2022					620	3450	0	Yes
121	41.28568	-72.2069	9/22/2022					3450	5510	15.63	Yes
122	41.29232	-72.2136	9/22/2022					39700	39700	12.34	Yes
123	41.30035	-72.2158	9/22/2022					8210	8210		Yes
124	41.29926	-72.2156	9/22/2022					8700	3340	32.85	Yes
131	41.32675	-72.1871	12/7/2022	0.22	0.013			<10	<10	0	No
136	41.3027	-72.231	12/7/2022					3080	6870		Yes
137	41.29999	-72.2267	12/7/2022					285	2060		Yes
138	41.29881	-72.2275	12/7/2022					279	420		Yes
145	41.3356	-72.1919	12/7/2022	0.9	0.142			3080	1400	3.12	Yes
146	41.33663	-72.1914	12/7/2022	0.44	0.061			613	1330	0.81	Yes
147	41.3681	-72.1948	12/7/2022	1.08	0.251			504	548	10.02	Yes
148	41.36796	-72.1949	12/7/2022	0.65	0.043			>24200	961	0.31	Yes
154	41.31826	-72.2432	9/10/2020			650					Yes
158	41.34119	-72.2452	9/10/2020			1820					Yes
159	41.34789	-72.248	10/5/2020			880					Yes
160	41.34602	-72.2471	11/30/2022			20	3450				Yes
162	41.33457	-72.2414	9/10/2020			1230					Yes
163	41.33112	-72.2404	9/10/2020			3000					Yes
164	41.33663	-72.2417	9/10/2020			970					Yes
166	41.33062	-72.2407	9/10/2020			3250					Yes
167	41.32322	-72.2421	9/10/2020			410					Yes

168	41.32316	-72.242	9/10/2020			1180					Yes
169	41.32161	-72.2424	9/10/2020			2700					Yes
170	41.3198	-72.2422	9/10/2020			1750					Yes
171	41.31841	-72.2425	9/10/2020			810					Yes
172	41.34511	-72.2467	11/30/2022			9210	>24200				Yes
173	41.34079	-72.2443	9/10/2020			2250					Yes
180	41.30854	-72.2057	12/7/2022					121	1220	8.47	Yes
181	41.31039	-72.2056	12/7/2022					3870	>24200	0.74	Yes
185	41.31083	-72.2042	12/7/2022					1350	393	0.99	Yes
186	41.32137	-72.2061	10/5/2020					2220			Yes
188	41.31931	-72.2074	10/5/2020					440			Yes
189	41.32016	-72.2069	10/5/2020					940			Yes
190	41.31682	-72.2096	10/5/2020					1820			Yes
191	41.29869	-72.2313	12/7/2022					250	2400		Yes
192	41.29927	-72.2316	12/7/2022					307	4880		Yes
193	41.29976	-72.2338	9/22/2022					6260	9220		Yes
194	41.30696	-72.2323	12/7/2022					262	2760		Yes
198	41.30107	-72.2357	9/22/2022					7310	4960		Yes
204	41.31806	-72.2141	10/5/2020					4300			Yes
205	41.31697	-72.2154	10/5/2020					3820			Yes
211	41.31414	-72.2096	12/7/2022					733	2910		Yes
212	41.31421	-72.2096	12/7/2022					231	2360		Yes
213	41.31076	-72.2088	9/1/2021					1050		13.91	Yes
214	41.31517	-72.2204	12/7/2022					216	2360		Yes
215	41.31466	-72.2155	10/5/2020					320			Yes
217	41.3151	-72.2111	10/5/2020					740			Yes
218	41.31709	-72.2003	12/7/2022					228	933	3.17	Yes
222	41.32448	-72.1804	10/13/2020								Yes
223	41.32421	-72.1795	12/7/2022	0.49	0.066			<20	20	0.02	No
+ 236	41.36638	-72.2074	12/16/2022			20	8210				Yes
237	41.30552	-72.2267	12/7/2022					52	538		Yes
238	41.30365	-72.2273	12/7/2022					1180	4610		Yes

268	41.39605	-72.2237	11/30/2022			41	>24200				Yes
269	41.39546	-72.225	11/30/2022			75	9800				Yes
270	41.30218	-72.2048	12/7/2022					311	3080	0.18	Yes
274	41.3134	-72.2536	12/7/2022					20	683		Yes
290	41.34639	-72.1906	12/16/2022	1.65	0.022			62	60	0	Yes
295	41.30271	-72.231	12/16/2022					<48400	5510		Yes
297	41.29907	-72.2304	9/22/2022					3260	3450		Yes
298	41.33257	-72.1911	12/16/2022	0.48	0.033			10300	738	0	Yes
300	41.32506	-72.1857	12/16/2022	0.47	0.05			1120	1630	0	Yes
301	41.32493	-72.1856	12/16/2022	0.37	0.086			292	4200	10.59	Yes
303	41.33265	-72.1948	12/16/2022	0.42	0.024			426	126	0.31	Yes
304	41.32019	-72.2159	12/16/2022					20	11000		Yes
305	41.30223	-72.2167	9/22/2022					>48400	39700		Yes
307	41.30277	-72.217	9/22/2022					4030	13000		Yes
308	41.3026	-72.2169	9/22/2022					13000	22400		Yes
309	41.29341	-72.2134	9/22/2022					18400	5230		Yes
314	41.29366	-72.2136	9/22/2022					34700	24100		Yes
316	41.35101	-72.2448	11/30/2022			41	15500				Yes

+ ID# 99 & 236 were tested for Mercury, results less than 0.002 mg/L

*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 at outfall is > 10 NTU

2.2 Credit for screening data collected under 2004 permit

Outfall	**Sample date**	**Parameter** (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	**Results**	**Name of Laboratory (if used)**
HIW-1	05/02/2006	Bacteria	280 col / 100 ml	Eastern Analytical
HIW-1	12/13/2006	Bacteria	2,700 col / 100 ml	Eastern Analytical
HIW-1	05/08/2008	Bacteria	300 col / 100 ml	Eastern Analytical
HIW-1	08/06/2008	Bacteria	2,800 col / 100 ml	Eastern Analytical
HIW-1	05/12/2010	Bacteria	4,800 col / 100 ml	Eastern Analytical
HIW-1	09/04/2012	Bacteria	19,000 col / 100 ml	Eastern Analytical
HIW-1	10/19/2012	Bacteria	1,046 col / 100 ml	ECL Environmental
HIW-1	06/05/2014	Bacteria	4,500 col / 100 ml	Eastern Analytical
HIW-1	08/13/2014	Bacteria	6,800 col / 100 ml	Eastern Analytical
HIW-1	11/06/2014	Bacteria	600 col / 100 ml	Eastern Analytical
HIW-1	08/11/2015	Bacteria	2,050 col / 100 ml	Eastern Analytical
HIW-1	11/15/2016	Bacteria	1,400 col / 100 ml	Eastern Analytical
LFR-1	07/12/2006	Bacteria	1,380 col / 100 ml	Eastern Analytical
LFR-1	05/02/2006	Bacteria	650 col / 100 ml	Eastern Analytical
LFR-1	12/13/2006	Bacteria	200 col / 100 ml	Eastern Analytical
LFR-1	05/08/2008	Bacteria	1,200 col / 100 ml	Eastern Analytical
LFR-1	08/06/2008	Bacteria	5,400 col / 100 ml	Eastern Analytical
LFR-1	05/12/2010	Bacteria	1,450 col / 100 ml	Eastern Analytical
LFR-1	09/04/2012	Bacteria	5,500 col / 100 ml	Eastern Analytical
LFR-1	10/19/2012	Bacteria	548 col / 100 ml	ECL Environmental
LFR-1	06/05/2014	Bacteria	1,280 col / 100 ml	Eastern Analytical
LFR-1	08/13/2014	Bacteria	3,800 col / 100 ml	Eastern Analytical
LFR-1	11/06/2014	Bacteria	800 col / 100 ml	Eastern Analytical
LFR-1	08/11/2015	Bacteria	4,100 col / 100 ml	Eastern Analytical
LFR-1	11/15/2016	Bacteria	1,220 col / 100 ml	Eastern Analytical
LW-1	07/12/2006	Bacteria	480 col / 100 ml	Eastern Analytical
LW-1	05/02/2006	Bacteria	320 col / 100 ml	Eastern Analytical
LW-1	12/13/2006	Bacteria	40 col / 100 ml	Eastern Analytical
LW-1	08/06/2008	Bacteria	560 col / 100 ml	Eastern Analytical
LW-1	05/12/2010	Bacteria	250 col / 100 ml	Eastern Analytical
LW-1	09/04/2012	Bacteria	2,400 col / 100 ml	Eastern Analytical

LW-1	10/19/2012	Bacteria	64 col / 100 ml	ECL Environmental
LW-1	06/05/2014	Bacteria	820 col / 100 ml	Eastern Analytical
LW-1	08/13/2014	Bacteria	1,800 col / 100 ml	Eastern Analytical
LW-1	11/06/2014	Bacteria	40 col / 100 ml	Eastern Analytical
LW-1	08/11/2015	Bacteria	540 col / 100 ml	Eastern Analytical
LW-1	11/15/2016	Bacteria	25 col / 100 ml	Eastern Analytical
CR-1	05/02/2006	Bacteria	26 col / 100 ml	Eastern Analytical
CR-1	07/12/2006	Bacteria	2,700 col / 100 ml	Eastern Analytical
CR-1	12/13/2006	Bacteria	40 col / 100 ml	Eastern Analytical
CR-1	08/06/2008	Bacteria	3,500 col / 100 ml	Eastern Analytical
CR-1	05/12/2010	Bacteria	11,000 col / 100 ml	Eastern Analytical
CR-1	09/04/2012	Bacteria	22,750 col / 100 ml	Eastern Analytical
CR-1	10/19/2012	Bacteria	2,420 col / 100 ml	ECL Environmental
CR-1	06/05/2014	Bacteria	120 col / 100 ml	Eastern Analytical
CR-1	08/13/2014	Bacteria	5,250 col / 100 ml	Eastern Analytical
CR-1	11/06/2014	Bacteria	190 col / 100 ml	Eastern Analytical
CR-1	08/11/2015	Bacteria	2,550 col / 100 ml	Eastern Analytical
CR-1	11/15/2016	Bacteria	140 col / 100 ml	Eastern Analytical

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

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment
Follow-up investigations to be conducted in coordination with IDDE investigations.		

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

Outfall ID*	Latitude	Longitude	Sample date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Bacteria, E. coli (col/100ml)	Bacteria, Total Coliform (col/100 ml)	Bacteria, Fecal Coliform (col/100ml)	Bacteria, Enterococci (col/100ml)
ID# 4 Grand St.	41.32555	-72.1861	12/7/2022	0.6	0.074			75	455
ID# 204 Huntley Ct.	41.31806	-72.2141	10/5/2020					4300	
ID# 205 Huntley Ct.	41.31697	-72.2154	10/5/2020					3820	
ID#166 N. Bridebrook Rd.	41.33062	-72.2407	9/10/2020			3250			
ID#163 N. Bridebrook Rd.	41.33112	-72.2404	9/10/2020			3000			
ID#169 N. Bridebrook Rd.	41.32161	-72.2424	9/10/2020			2700			
ID# 53 Cedarbrook Ln.	41.38131	-72.2115	9/22/2022			20900	>48400		
ID# 57 Sylvan Glen Dr.	41.38195	-72.2135	9/22/2022			13000	>48400		
ID# 45 Bluebird Cir.	41.37359	-72.2106	9/22/2022			11000	>48400		
ID# 305 Old Black Point Rd.	41.30223	-72.2167	9/22/2022					>48400	39700
ID# 95 Old Black Point Rd.	41.29744	-72.2152	9/22/2022					48400	31100
ID# 122 Old Black Point Rd.	41.29232	-72.2136	9/22/2022					39700	39700

*2023 Testing will prioritize outfall ID#s 53, 57, 45, 305, 95, 122

Part III: IDDE Program Data

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

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank	1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank
2000-39-1	High Priority	17	2205-00-2-R1	High Priority	12
2000-40-1	High Priority	14	2205-00-2-R2	High Priority	11
2000-41-1	Excluded	-	2205-01-1	Low Priority	9
2000-42-1	Low Priority	8	2205-02-1	Low Priority	9
2000-43-1	High Priority	11	2205-02-1-L1	High Priority	11
2000-44-1	Excluded	-	2205-03-1	High Priority	11
2000-45-1	Excluded	-	2206-00-1*	High Priority	14
2202-00-2-R2	Excluded	-	2206-00-1-L1	High Priority	16
2202-00-2-R3	Low Priority	9	2206-00-2-R1	High Priority	16
2202-00-2-R4	Low Priority	9	2206-01-1	Low Priority	6
2202-00-3-L8	Low Priority	2	2206-01-1-L1	Low Priority	6
2202-00-3-L9	High Priority	12	2206-01-2-R1	Low Priority	6
2202-00-3-R1	Low Priority	7	2206-02-1	Low Priority	6
2202-00-3-R2	High Priority	11	2206-03-1	High Priority	12
2202-00-3-R3	High Priority	11	2207-00-1	High Priority	12
2202-05-1	Low Priority	9	2207-00-1-L4	Low Priority	6
2202-06-1	Low Priority	9	2207-00-1-L5	Low Priority	6
2202-08-2-R1	Low Priority	9	2207-00-1-L6	Low Priority	9
2202-10-1	Excluded	-	4801-04-1-L1	Low Priority	6
2202-11-1	Excluded	-	4802-07-1-L1	Excluded	-
2202-12-1	High Priority	11	4803-00-1	Low Priority	6
2203-00-2-R2	Low Priority	6	4803-01-1-L1	Excluded	-
2204-00-3-R1	High Priority	11	2202-08-1	Low Priority	6
2204-00-3-R2	High Priority	11	2202-09-1	Low Priority	6

2204-00-3-R3	High Priority	11	2205-00-1-L1	Low Priority	6
2204-00-3-R4	High Priority	17	2207-00-1-L1	Low Priority	6
2204-01-1	High Priority	11	2207-00-1-L3	Low Priority	6
2204-04-1	High Priority	11	2207-00-1-L2	Excluded	-
2204-04-1-L1	Excluded	-	4020-01-1	Excluded	-
2205-00-1*	Low Priority	9	4020-03-1	Excluded	-
2205-00-1-L2	Low Priority	9	4020-02-1	Excluded	-
2205-00-1-L3	High Priority	11	4020-04-1-L1	Excluded	-
2205-00-1-L4	High Priority	12			

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

Outfall ID	Latitude	Longitude	Screening / Sample date	Ammonia (mg/L)	Chlorine (mg/L)	Conductivity (uS/cm)	Salinity (PPT)	Bacteria - E. coli or enterococcus, fecal coliform (col/100 ml)	Surfactants (mg/L)	Water Temp (°C)	Follow-up actions taken (if required)
1	41.32707	-72.1863	7/1/2019								
2	41.32853	-72.1861	7/1/2019	0	0	58.7	0		0	16.3	
3	41.32674	-72.1871	8/14/2019								
4	41.32555	-72.1861	5/28/2020	0	0.02	57.1	0	86	2	17	
8	41.33927	-72.1908	6/2/2020								
12	41.33819	-72.1874	7/1/2019								
13	41.34153	-72.1855	7/1/2019								
14	41.34346	-72.1887	7/1/2019								
15	41.34421	-72.1896	7/1/2019								
16	41.34287	-72.1868	7/1/2019								
17	41.30443	-72.2316	7/1/2019								
18	41.32141	-72.1955	7/1/2019								
19	41.30444	-72.2315	7/1/2019								
20	41.35569	-72.2126	7/1/2019								
22	41.31618	-72.2007	7/1/2019								
23	41.31494	-72.2018	7/1/2019								
26	41.30491	-72.2176	7/1/2019								
27	41.30671	-72.2178	6/2/2020								
28	41.30807	-72.2175	8/14/2019								
30	41.30755	-72.2046	7/10/2019								
31	41.38378	-72.214	9/18/2019								
32	41.38385	-72.2143	9/19/2019	0.05	0.02	265	0.1	20	0.25	17.2	
33	41.31135	-72.2059	5/27/2020								
34	41.31135	-72.2033	7/10/2019								
35	41.31132	-72.2033	7/10/2019								

36	41.33694	-72.1846	7/5/2019								
37	41.33553	-72.1879	7/5/2019								
38	41.33506	-72.1881	7/5/2019								
39	41.37516	-72.2082	7/15/2019								
40	41.37123	-72.2096	5/20/2020								
41	41.37148	-72.2082	7/15/2019								
42	41.37139	-72.2086	7/15/2019								
43	41.37123	-72.2086	7/15/2019								
45	41.37359	-72.2106	7/15/2019								
46	41.37479	-72.2094	7/15/2019								
47	41.3764	-72.2091	7/15/2019								
48	41.37716	-72.2108	7/15/2019								
49	41.37824	-72.2114	7/15/2019								
50	41.37918	-72.2116	7/15/2019								
51	41.38084	-72.2125	7/1/2019								
52	41.38194	-72.213	7/1/2019								
53	41.38131	-72.2115	7/1/2019								
56	41.38333	-72.2132	7/1/2019								
57	41.38195	-72.2135	9/18/2019								
58	41.38021	-72.2139	7/17/2019								
61	41.38724	-72.2171	7/17/2019								
62	41.38138	-72.2106	9/18/2019								
66	41.3865	-72.214	9/17/2019	0.05	0.02	155.5	0.1	16	0.1	23.5	
67	41.38743	-72.2156	9/17/2019								
68	41.38864	-72.2158	9/18/2019								
72	41.39117	-72.2202	5/20/2020								
73	41.33208	-72.2078	5/22/2020								
74	41.33379	-72.2073	7/1/2019								
76	41.37666	-72.2083	7/15/2019								
79	41.32097	-72.2573	8/1/2019								
81	41.30934	-72.2079	9/26/2019								
82	41.30623	-72.2072	9/26/2019								

83	41.2885	-72.2123	8/1/2019								
85	41.30543	-72.2053	8/1/2019								
86	41.3015	-72.2045	8/1/2019								
87	41.30021	-72.2044	8/1/2019								
88	41.29886	-72.2042	8/1/2019								
89	41.29762	-72.2038	9/26/2019								
90	41.29695	-72.2036	9/26/2019								
91	41.29634	-72.2034	9/26/2019								
92	41.29572	-72.2031	9/26/2019								
93	41.29496	-72.2028	9/26/2019								
94	41.29327	-72.2024	9/26/2019								
95	41.29744	-72.2152	8/1/2019								
96	41.29814	-72.2154	8/1/2019								
97	41.29991	-72.2158	6/3/2020	0	0	227.4	0.1	192	0.25	16.4	
99	41.32777	-72.1959	7/1/2019								
108	41.39739	-72.2226	9/18/2019								
110	41.41199	-72.2216	5/20/2020								
111	41.41201	-72.2216	5/20/2020								
112	41.41047	-72.2217	5/21/2020	0	0	59	0	4	0	12	
114	41.41018	-72.2223	8/14/2019								
115	41.40888	-72.2221	8/14/2019								
120	41.30288	-72.2049	8/1/2019								
121	41.28568	-72.2069	9/26/2019								
122	41.29232	-72.2136	9/26/2019								
123	41.30035	-72.2158	6/3/2020	1	0	192.4	0.1	4	0.25	16.7	
124	41.29926	-72.2156	8/1/2019								
127	41.40648	-72.2269	5/20/2020								
128	41.40639	-72.2269	5/20/2020								
129	41.4059	-72.2346	5/20/2020								
130	41.41053	-72.2218	8/14/2019								
131	41.32675	-72.1871	7/1/2019								
132	41.31806	-72.2562	5/20/2020								

133	41.32343	-72.2056	9/26/2019								
134	41.32476	-72.2057	9/26/2019								
135	41.32331	-72.2056	9/26/2019								
136	41.3027	-72.231	6/1/2020								
137	41.29999	-72.2267	8/22/2019								
138	41.29881	-72.2275	8/22/2019								
140	41.37028	-72.2264	6/2/2020								
141	41.36855	-72.2332	6/2/2020								
142	41.36877	-72.2322	6/2/2020								
143	41.32936	-72.2062	5/28/2020	0	0	202.6	0.1	28	0	14	
144	41.34146	-72.2102	6/2/2020								
145	41.3356	-72.1919	9/18/2019								
146	41.33663	-72.1914	9/18/2019								
147	41.3681	-72.1948	7/1/2019								
148	41.36796	-72.1949	9/19/2019								
149	41.32538	-72.2037	5/22/2020								
150	41.32541	-72.2035	5/22/2020								
151	41.33212	-72.2058	5/22/2020								
152	41.32333	-72.2056	9/26/2019								
154	41.31826	-72.2432	5/20/2020								
155	41.32582	-72.2029	9/26/2019								
156	41.32652	-72.2022	9/26/2019								
158	41.34119	-72.2452	5/21/2020	0	0	57.3	0	8	0	20	
159	41.34789	-72.248	5/21/2020	0.25	0	226	0.1	0	0.25	15	
160	41.34602	-72.2471	5/21/2020	0	0	144	0.1	2	0	11.8	
162	41.33457	-72.2414	10/4/2019								
163	41.33112	-72.2404	10/4/2019								
164	41.33663	-72.2417	5/21/2020	0	0	287	0.2	4	0.25	20	
166	41.33062	-72.2407	10/8/2019								
167	41.32322	-72.2421	5/20/2020								
168	41.32316	-72.242	5/20/2020								
169	41.32161	-72.2424	5/20/2020								

170	41.3198	-72.2422	5/20/2020								
171	41.31841	-72.2425	5/20/2020								
172	41.34511	-72.2467	5/20/2020								
173	41.34079	-72.2443	5/20/2020								
174	41.33187	-72.2564	5/20/2020								
175	41.3361	-72.2572	5/20/2020								
176	41.33786	-72.2577	5/20/2020								
177	41.3319	-72.2563	5/20/2020								
178	41.3334	-72.2566	5/20/2020								
179	41.33908	-72.2591	5/21/2020	0	0	98	0.1	0	0	11.7	
180	41.30854	-72.2057	5/27/2020								
181	41.31039	-72.2056	5/27/2020								
182	41.33555	-72.2595	5/21/2020	0	0	86	0.1	4	0.1	11.3	
183	41.33909	-72.259	5/21/2020	0	0	70	0	0	0	12.5	
185	41.31083	-72.2042	11/4/2019								
186	41.32137	-72.2061	11/14/2019								
188	41.31931	-72.2074	11/14/2019								
189	41.32016	-72.2069	11/14/2019								
190	41.31682	-72.2096	5/27/2020								
191	41.29869	-72.2313	6/2/2020								
192	41.29927	-72.2316	6/1/2020								
193	41.29976	-72.2338	11/27/2019								
194	41.30696	-72.2323	6/1/2020								
198	41.30107	-72.2357	6/1/2020								
199	41.32195	-72.2246	6/3/2020	1	0	150.4	0.1	58	0.5	16.9	
200	41.31683	-72.2311	5/20/2020								
203	41.32305	-72.2242	6/3/2020	0	0	159.2	0.1	4	0.25	16.9	
204	41.31806	-72.2141	6/2/2020								
205	41.31697	-72.2154	6/2/2020								
207	41.33056	-72.22	6/2/2020								
208	41.33208	-72.2226	6/2/2020								
209	41.33025	-72.2186	6/22/2020								

211	41.31414	-72.2096	5/28/2020	0	0	144.1	0.1	10	0	15.1	
212	41.31421	-72.2096	5/27/2020								
213	41.31076	-72.2088	5/28/2020	0	0	119.4	0.1	238	0.5	16.8	
214	41.31517	-72.2204	6/3/2020	0	0	84.7	0	32	0.25	14.7	
215	41.31466	-72.2155	5/27/2020								
216	41.33306	-72.1974	6/2/2020								
217	41.3151	-72.2111	5/27/2020								
218	41.31709	-72.2003	6/3/2020								
219	41.31699	-72.2004	5/27/2020								
220	41.31678	-72.2007	5/27/2020								
223	41.32421	-72.1795	10/13/2020	0.25	0.02	47.5	0		0.25	16.8	
237	41.30552	-72.2267	6/1/2020								
238	41.30365	-72.2273	6/1/2020								
239	41.34936	-72.2108	6/23/2020	0	0	279.2	0.1	12	0.25	17.1	
240	41.33828	-72.211	6/2/2020								
241	41.33604	-72.2137	6/2/2020								
243	41.33378	-72.22	6/2/2020								
244	41.34687	-72.211	6/2/2020								
245	41.34683	-72.2121	6/2/2020								
246	41.34625	-72.2156	6/22/2020								
247	41.34808	-72.2168	6/23/2020	0	0	283.9	0.1	244	0	17.4	
249	41.34544	-72.217	6/2/2020								
250	41.34237	-72.2127	6/2/2020								
251	41.34243	-72.2125	6/2/2020								
252	41.34219	-72.2129	6/2/2020								
253	41.33851	-72.2143	6/2/2020								
254	41.33894	-72.211	6/2/2020								
255	41.3406	-72.2101	6/2/2020								
256	41.3338	-72.22	6/2/2020								
257	41.32985	-72.2571	5/21/2020	0	0	87	0.1	4	0.1	11.6	
258	41.33321	-72.2576	5/21/2020	0	0	86	0.1	0	0.1	12.1	
259	41.37009	-72.233	6/2/2020								

260	41.36558	-72.2342	6/2/2020								
261	41.38206	-72.2354	6/23/2020	0	0	64.3	0	0	0	18.4	
262	41.37932	-72.2362	6/23/2020	0	0	161.6	0.1	4	0.25	18.3	
263	41.38411	-72.2361	6/2/2020								
264	41.37114	-72.2451	6/2/2020								
265	41.37147	-72.2427	6/22/2020								
266	41.36425	-72.2455	6/2/2020								
267	41.38308	-72.2456	6/2/2020								
268	41.39605	-72.2237	5/21/2020	0	0	177	0.1	12	0	13.9	
269	41.39546	-72.225	5/21/2020	0.5	0	202	0.1	14	0.25	12	
270	41.30218	-72.2048	7/1/2019								
271	41.35471	-72.2129	6/2/2020								
272	41.3557	-72.2125	6/2/2020								
273	41.35578	-72.2112	6/2/2020								
274	41.3134	-72.2536	5/20/2020								
275	41.34869	-72.2123	6/2/2020								
277	41.35058	-72.212	6/2/2020								
278	41.38189	-72.2407	6/2/2020								
280	41.36479	-72.2301	6/2/2020								
281	41.36479	-72.2301	6/2/2020								
282	41.36893	-72.2282	7/1/2019								
283	41.36797	-72.2193	7/1/2019								
285	41.36853	-72.2195	7/1/2019								
286	41.37622	-72.2276	7/1/2019								
287	41.37931	-72.2304	5/8/2020								
288	41.37781	-72.2344	7/1/2019								
289	41.33199	-72.2237	7/1/2019								
290	41.34639	-72.1906	7/1/2019								
291	41.33479	-72.2573	5/21/2020								
292	41.3348	-72.2572	5/21/2020								
293	41.33611	-72.2205	7/1/2019								
294	41.33601	-72.2201	7/1/2019								

295	41.30271	-72.231	6/1/2020								
297	41.29907	-72.2304	6/2/2020								
299	41.36984	-72.2247	6/2/2020								
302	41.32912	-72.2056	6/2/2020								
303	41.33265	-72.1948	6/2/2020								
304	41.32019	-72.2159	6/2/2020								
305	41.30223	-72.2167	6/2/2020								
306	41.30163	-72.2163	6/2/2020								
307	41.30277	-72.217	6/2/2020								
308	41.3026	-72.2169	6/2/2020								
309	41.29341	-72.2134	6/2/2020								
310	41.40859	-72.2377	6/2/2020								
311	41.40924	-72.2374	6/2/2020								
312	41.36574	-72.218	6/2/2020								
314	41.29366	-72.2136	6/2/2020								
316	41.35101	-72.2448	7/7/2021								

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

3.1 System Vulnerability Factor Summary

Catchment ID	Receiving Water	System Vulnerability Factors
2000-39-1	LIS EB Shore - Niantic Bay (East, West, & Black Pt)	1, 7, 12; Outfall #213 Dry Weather Flow
2000-40-1	LIS EB Shore - Niantic Bay (Black Pt) & Pattagansett River Mouth	7; Outfall #97, 123 Dry Weather Flow
2000-42-1	LIS EB Shore - Pattagansett River Mouth / Red Brook	1
2000-43-1	LIS EB Shore - Pattagansett River Mouth & Rocky Neck (Fourmile Rvr)	7
2202-00-2-R3	Latimer Brook	12
2202-00-2-R4	Latimer Brook	Outfall #112 Dry Weather Flow
2202-00-3-L8	Latimer Brook / Darrow Pond	Outfall #269 Dry Weather Flow
2202-00-3-L9	Latimer Brook - 01	12
2202-00-3-R2	Latimer Brook - 01	Outfall #32, 66, 268 Dry Weather Flow
2204-00-3-R2	LIS EB Inner - Niantic River (mouth)	11, 12
2204-00-3-R4	LIS EB Inner - Niantic River (mouth)	1, 7, 12; Outfall #2, 4, 223 Dry Weather Flow
2205-00-1*	Pattagansett River	12; Outfall #143 Dry Weather Flow
2205-00-1-L2	Pattagansett River / Pattagansett Lake	12; Outfall #261, 262 Dry Weather Flow
2205-00-1-L3	Pattagansett River/ Gorton Pond	1, 12; Outfall #239 Dry Weather Flow
2205-00-1-L4	Pattagansett River / Bush Pond	7
2205-00-2-R1	LIS EB Inner - Pattagansett River Mouth	12; Outfall #211 Dry Weather Flow
2205-00-2-R2	LIS EB Inner - Pattagansett River Mouth	Outfall #214 Dry Weather Flow

2205-01-1	Pattagansett River/ Gorton Pond	12; Outfall #247 Dry Weather Flow
2205-03-1	LIS EB Inner - Pattagansett River Mouth	12
2206-00-1*	Bride Brook - 01	7
2206-00-1-L1	Bride Brook - 02 / Bride Lake	7, 12; Outfall #158, 159, 160, 164 Dry Weather Flow
2206-00-2-R1	LIS EB Inner - Bride Brook / Bride Brook - 01	1, 7; Outfall #199, 203 Dry Weather Flow
2207-00-1-L4	Fourmile River	Outfall #179, 182, 183, 258 Dry Weather Flow
2207-00-1-L5	Fourmile River	Outfall #257 Dry Weather Flow
2207-00-1-L6	Fourmile River	7

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 Wet weather sample and inspection data for outfalls within catchments with at least one SVF

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

3.3 Key junction manhole dry weather screening and sampling data for catchments with at least one SVF

Key Junction Manhole ID	Latitude / Longitude	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants

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

3.5 Wet and dry weather investigation outfall sampling data 1-year after removal of illicit discharge

Outfall ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Surfactants

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: Daniel R. Cunningham (East Lyme First Selectman)	Print name: Alex Klose, P.E. (East Lyme Town Engineer)
Signature / Date: 03/31/2024	Signature / Date: 03/31/2024