



westonandsampson.com

WESTON & SAMPSON ENGINEERS, INC.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
tel: 860.513.1473

REPORT

March 27, 2024

TOWN OF
Prospect
CONNECTICUT

2023 Stormwater Annual Report

CT DEEP General Permit for the Discharge
of Stormwater from Small Municipal
Separate Storm Sewers (MS4)



TABLE OF CONTENTS

	Page
I. INTRODUCTION / OVERVIEW.....	1
I.1 INTRODUCTION.....	1
I.2 TOWN INFORMATION	1
I.3 STORMWATER MONITORING	2
I.4 ANNUAL REPORT DEVELOPMENT TEAM	2
PART I: SUMMARY OF MINIMUM CONTROL MEASURE ACTIVITIES	1-1
1 PUBLIC EDUCATION AND OUTREACH.....	1-1
1.1 BMP Summary.....	1-1
1.2 Public Education and Outreach Activities	1-2
2 PUBLIC INVOLVEMENT / PARTICIPATION.....	2-1
2.1 BMP Summary	2-1
2.2 Public Involvement/Participation Activities.....	2-2
3 ILLICIT DISCHARGE DETECTION AND ELIMINATION.....	3-1
3.1 BMP Summary	3-1
3.2 IDDE Activities	3-2
3.3 Citizen Reports.....	3-3
3.4 Actions Taken to Address Septic Failures	3-3
3.5 Method Used to Track Illicit Discharge Reports.....	3-3
3.6 IDDE Reporting Metrics.....	3-4
3.7 IDDE Training for Employees	3-4
4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL.....	4-1
4.1 BMP Summary	4-2
4.2 Construction Site Runoff Control Activities	4-3
5 POST-CONSTRUCTION STORMWATER MANAGEMENT.....	5-1
5.1 BMP Summary	5-2
5.2 Post-Construction Stormwater Management Activities	5-3
5.3 Post-Construction Stormwater Management Reporting Metrics	5-4
5.4 Method to Determine Baseline DCIA.....	5-4
6 POLLUTION PREVENTION / GOOD HOUSEKEEPING.....	6-1
6.1 BMP Summary	6-1
6.2 Prevention/Good Housekeeping Activities.....	6-3
6.3 Pollution Prevention/ Good Housekeeping Reporting Metrics.....	6-4
6.4 Catch Basin Cleaning Program	6-5
6.5 Retrofit Program.....	6-5
PART II: IMPAIRED WATERS INVESTIGATION AND MONITORING PROGRAM.....	1
1 IMPAIRED WATERS INVESTIGATION AND MONITORING PROGRAM.....	1
1.1 Stormwater Pollutants	1
1.2 Describe Program Status	1
2 SCREENING DATA FOR OUTFALLS TO IMPAIRED WATERBODIES.....	1

2.1 Screening Data 1

3 FOLLOW-UP INVESTIGATIONS 2

4 PRIORITIZED OUTFALL MONITORING 2

PART III: ADDITIONAL IDDE PROGRAM DATA..... 1

1 ASSESSMENT AND PRIORITY RANKING OF CATCHMENTS DATA..... 1

2 OUTFALL AND INTERCONNECTION SCREENING AND SAMPLING DATA 1

 2.1 Dry Weather Screening and Sampling Data from Outfalls and Interconnections 1

 2.2 Wet Weather Sample and Inspection Data..... 2

3 CATCHMENT INVESTIGATION DATA..... 2

 3.1 System Vulnerability Factor Summary..... 2

 3.2 Key Junction Manhole Dry Weather Screening and Sampling Data 3

 3.3 Wet Weather Investigation Outfall Sampling Data 3

 3.4 Data for Each Illicit Discharge Source Confirmed through the Catchment Investigation Procedure..... 3

PART IV: CERTIFICATION 1

1 CERTIFICATION REQUIREMENTS 1

2 PLAN CERTIFICATION AND SIGNATURE 1

LIST OF APPENDICES

Appendix A.....Outfall Map
Appendix B.....Septic Failures Report

I. INTRODUCTION / OVERVIEW

I.1 INTRODUCTION

This 2023 Stormwater Annual Report was developed by Weston & Sampson on behalf of the Town of Prospect (Town). The Annual Report describes the status of compliance with the 2017 CTDEEP General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4s). The Town has the Permit Number GSM 000110. The report includes an assessment of the identified best management practices in the Stormwater Management Plan (SWMP) and the progress towards achieving the implementation dates and measurable goals for each of the Minimum Control Measures.

The six minimum control measures include:

1. Public Education and Outreach
2. Public Involvement / Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management
6. Pollution Prevention / Good Housekeeping

This report documents the Town's efforts to comply with the 2023 General Permit to the maximum extent practicable (MEP) for the period between January 1, 2023 to December 31, 2023 with updates on tasks to be completed in fiscal year 2023 ending in June 2024.

I.2 TOWN INFORMATION

The Town of Prospect covers an area of approximately 14.3 square miles and is home to approximately 9,405 residents according to the 2010 Census. Approximately 10.3 square miles of the Town is classified as Urbanized Area (UA) according to the 2010 Census. Approximately 0.4 square miles of the Town is comprised of waterbodies and watercourses. An outfall map that includes urbanized area is included in Appendix A.

Sub regional drainage basins and major watercourses include the Naugatuck River, Tenmile River, Willow Brook, West River, Beaver Pond Brook, Fulling Mill Brook, and Beacon Hill Brook. These are part of the Housatonic and South Central Coast major drainage basins. In addition, there are several significant lakes and ponds within the town including Long Hill Reservoir, William Moody Reservoir, and Prospect Reservoir.

The Town of Prospect has a Mayor-Council form of government. The Department of Public Works is responsible for all public property including buildings, roads, parking lots, roadsides and parks. Several commissions within the Town have jurisdiction over development and include the following:

- Department of Public Works
- Planning & Zoning Commission
- Inland Wetlands Commission

- Conservation Commission
- Water Pollution Control Authority

I.3 STORMWATER MONITORING

The 2023 General Permit requires towns to conduct wet weather screening of outfalls that discharge to impaired waters, beginning July 1, 2018. One hundred percent (100%) of the outfalls shall be screened by July 1, 2022. Outfalls will require follow-up investigation if the results are greater than the parameters listed in the General Permit. The Town of Prospect does not have any impaired waters; therefore, stormwater monitoring is not required. In the future if any of the waters in the Town are declared impaired in the State Integrated Water Quality Report, then stormwater monitoring will be conducted.

I.4 ANNUAL REPORT DEVELOPMENT TEAM

As part of the development of the SWMP, a project team was established with representatives of the Town and the Town's consultant for this assignment, Weston & Sampson. Most of the team members developed the Annual Reports for 2017 through 2023. A list of the project team is provided below.

SWMP DEVELOPMENT TEAM	
Name	Organization & Title
Robert Chatfield	Town of Prospect Mayor and Director of Public Works
Mark Capanna	Town of Prospect Assistant Director of Public Works
Mary Barton	Town of Prospect Land Use Inspector
Raju Vasamsetti, P.E.	Weston & Sampson Team Leader
Lauren Coles, PE	Weston & Sampson Technical Specialist

PART I: SUMMARY OF MINIMUM CONTROL MEASURE ACTIVITIES

1 PUBLIC EDUCATION AND OUTREACH

Under the General Permit Section 6(a)(1), the Town is required to “implement a public education program to distribute educational materials to the permittee’s community or conduct equivalent outreach activities about the sources and impacts of stormwater discharges on waterbodies and the steps that the public can take to reduce pollutants in stormwater runoff.” The following BMPs were selected by the Town to address the Public Education and Outreach minimum control measure of the General Permit (Section 6(a)(1)/page19):

1.1 BMP Summary

BMP	Activities in Current Reporting Period	Sources (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable Goal	Responsible Department or Person	Additional Details
1-1 Implement public education and outreach	<ul style="list-style-type: none"> Updated brochures/ fact sheets. Continue to display in Town Hall. The SWMP and links to stormwater websites are posted on the Town website. 	US EPA CTDEEP UCONN CT NEMO Long Island Sound Study QRWA (Quinnipiac River Watershed Association)	Physical paper copies on display and virtual website access	<ul style="list-style-type: none"> Information is available to anyone who views the town website including Developers and Town residents. Approx. 50. 	Post Brochure/ Fact Sheets in the Town Hall and on the Town Website.	Land Use Inspector Webmaster	<ul style="list-style-type: none"> The Town placed the brochures/ fact sheets in the Public Library. The Town distributed brochures at Planning and Zoning and Inland Wetland Meetings and attached a permanent fixture to hold the factsheets in the Meeting Room.
1-2 Address education/ outreach for pollutants of concern.	<ul style="list-style-type: none"> Updated information in the Library of Education Materials that is maintained at the Town Hall. 	US EPA CTDEEP UCONN CT NEMO Long Island Sound Study QRWA	Physical paper copies on display and handed out copies	<ul style="list-style-type: none"> Information is available to anyone who views the town website including Developers and Town residents. Approx. 50. 	Public has access to Library of Educational Materials.	Land Use Inspector Webmaster	

BMP	Activities in Current Reporting Period	Sources (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable Goal	Responsible Department or Person	Additional Details
1-3 Fall Pumpkin Festival Stormwater Booth	<ul style="list-style-type: none"> Passed out Educational Stormwater Materials at the Fall Pumpkin Festival Passed out dog waste bags 	US EPA CTDEEP UCONN CT NEMO Long Island Sound Study QRWA	Physical paper copies on display and handed out	<ul style="list-style-type: none"> Approx. 3500 in attendance 	Hand out Brochure/Fact Sheets during the Festival	Land Use Inspector	The town handed out the brochures / fact sheets normally displayed in Town Hall in addition to dog waste bags.

1.2 Public Education and Outreach Activities

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

The Town will continue to provide mutt mitts® (plastic bags for dog waste) at parks to encourage citizens to pick up pet waste.

Public education continued with having educational material available in the Town Hall, public library, and in the public meeting room lower-level conference room in the Town Hall. The Town will continue to display brochures/fact sheets at the Town Hall, Public Library and post links to stormwater information online.

The information in the printed and online fact sheets will be updated when new information becomes available.

The Town of Prospect Land Use Department hosted a booth at the Fall Pumpkin Festival on October 15, 2023 that between 2 to 3 thousand people attended. The Land Use Inspector handed out literature and educated residents and the general public about stormwater. The flyers included the following topics: rain gardens, importance of cleaning up after your dog, and septic system maintenance. Also, the Land Use Inspector gave out over 1000 dog waste bags, dog biscuits and candy to entice residents to stop and chat.

2 PUBLIC INVOLVEMENT / PARTICIPATION

Under the General Permit Section 6(a)(2), the Town is required to “provide opportunities to engage their community to participate in the review and implementation of the permittee’s Plan.” Public participation benefits the program by increasing public support, including additional expertise and involving community groups/ organizations. The following BMPs were selected by the Town to address the Public Involvement / Participation minimum control measure of the General Permit (Section 6(a)(2)/page 21):

2.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	Date completed or projected completion date	Location Posted	Additional Details
2-1 Comply with public notice requirements for the Stormwater Management Plan	Complete	Posted Stormwater Management Report online.	Post Stormwater Management Report online.	Land Use Inspector Webmaster	Ongoing	https://townofprospect.org/land-use/#sm	Land Use Inspector to address any additional questions on Stormwater Management Plan.
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	In Progress	Posted Annual Report online.	Continue posting Annual Reports online.	Land Use Inspector Webmaster	Posted 2/15/2024	https://townofprospect.org/land-use/#sm	No comments were received.
2-3 Brochures/ Factsheets at Town Hall	Complete	Updated brochures/ fact sheets. Continue to display in Town Hall.	Place Brochure/ Fact Sheets at Town Hall.	Land Use Inspector Asst. DPW Director Webmaster	Ongoing	36 Center Street Prospect, Connecticut 06712	The Town placed the brochures/ fact sheets in the Town Hall.

2.2 Public Involvement/Participation Activities

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

The Town will continue distributing brochures at monthly Planning and Zoning and Inland Wetland Meetings. These meetings are open to the public.

Brochures/ Factsheets will remain posted at the Town Hall and will also be placed in the Library.
Future annual reports will be posted online.

3 ILLICIT DISCHARGE DETECTION AND ELIMINATION

Under the General Permit Section 6(a)(3), the Town is required to develop a written Illicit Discharge Detection and Elimination (IDDE) program. The IDDE program is designed to “provide the legal authority to prohibit and eliminate illicit discharges to the MS4; find the source of any illicit discharges; eliminate those illicit discharges; and ensure ongoing screening and tracking to prevent and/ or eliminate future illicit discharges.” The following BMPs were selected by the Town to address the Illicit Discharge Detection and Elimination minimum control measure of the General Permit (Section 6(a)(3) and Appendix B/page 22):

3.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	Date completed or projected completion date	Additional Details
3-1 Develop written IDDE program (Due 7/1/2018)	Complete	The Town developed an IDDE program based on the IDDE program template from UCONN’s CT NEMO. The IDDE program was completed in 2018.	Develop written plan of IDDE program	DPW WPCA	Completed 7/1/2018	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/2019)	Complete	The outfalls in the priority areas were reviewed in the field during the summer of 2018 during dry weather screening.	Update outfalls in priority areas in GIS maps.	Consultant Webmaster	Completed Fall 2018	The Town has previously located all the outfalls, and they are available in GIS through NVCOG see Appendix A.
3-3 Implement citizen reporting program (Ongoing)	Ongoing	The point of contact person is listed on the Town’s website. The Citizen Reporting Program is described in Section 3 of the IDDE Report.	Post point of contact phone number and email address online.	Asst. DPW Director	Completed 7/1/2017	The Stormwater Management email page posts the Mayor’s Office’s phone number: 203-758-4461 Email: info@townofprospect.org

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	Date completed or projected completion date	Additional Details
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/2018)	In Progress	Developed a Town Ordinance regarding non-stormwater discharges based on the template from UCONN's CT NEMO's website.	Write and implement a Town Ordinance	Town Council DPW	Completed 7/1/2022	The Town discussed and adopted the IDDE Ordinance at Town meeting on 6/30/2022. Ordinance became effective 8/5/2022
3-5 Develop record keeping system for IDDE tracking (Due 7/1/2017)	Complete	The record keeping system will be updated in the IDDE report.	Document IDDE findings in Annual Reports	Asst. DPW Director	Completed 7/1/2017	
3-6 Address IDDE in areas with pollutants of concern	N/A	Not Applicable because there are no pollutants of concern.	Not Applicable because there are no pollutants of concern.	Asst. DPW Director	N/A	There are no listed impaired waters in Prospect, so this BMP is not applicable.

3.2 IDDE Activities

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

Dry weather screening was conducted in August/September 2018. There were no illicit discharges found. The Town Highway Department is trained on recognizing illicit detections and reporting them.

3.3 Citizen Reports

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)
No records received during reporting period						

3.4 Actions Taken to Address Septic Failures

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

Note: Sewer failures reported by Chesprocott Health District for the Town of Prospect in 2022 are included in Appendix B at the end of this report.

3.5 Method Used to Track Illicit Discharge Reports

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

The Assistant DPW Director is responsible for tracking and responding to illicit discharge reports. The CHESPROCOTT Health District is responsible for tracking septic records for the Town.

3.6 IDDE Reporting Metrics

Metrics	
Estimated or actual number of MS4 outfalls	287*
Estimated or actual number of interconnections	Unknown
Outfall mapping complete	100%
Interconnection mapping complete	0%
System-wide mapping complete (detailed MS4 infrastructure)	90%
Outfall assessment and priority ranking	90%
Dry weather screening of all High and Low priority outfalls complete	N/A
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	75%

*See Outfall Map in Appendix A.

3.7 IDDE Training for Employees

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).

Employees including DPW staff received annual MS4 and IDDE Training through a presentation given by Weston & Sampson on October 21, 2022. The training contained information on the 2023 MS4 Permit Requirements, illicit discharge identification, and reporting and best management practices. Weston & Sampson provided information on the Retrofit Plan that was created for the Town and gave examples of low impact development (LID) projects.

4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Under the General Permit Section 6(a)(4), the Town shall “implement and enforce a program to control stormwater discharges (to its MS4) associated with land disturbance or development (including re-development) activities from sites with one acre or more of soil disturbance, whether considered individually or collectively as part of a larger plan.” The program will be consistent with “the 2002 Guidelines for Soil Erosion and Sedimentation Control, as amended, the Connecticut Stormwater Quality Manual, and stormwater discharge permits issued by DEEP within the municipal or institutional boundary pursuant to CGS 22a-430 and 22a-430b.” The permittee will conduct site plan reviews, site inspections and include procedures for public involvement. The Town has local regulations (shown in Table 4.1) that require construction runoff control measures.

Table 4.1 Stormwater Regulations			
Regulations	Date	Site Plan Review	Site Inspection and Enforcement
Zoning Regulations	2015	Section 11.4.5, Certification of Erosion and Sediment Control Plan	Section 4.14.6.1, Inspection Section 13.2, Enforcement
Subdivision Regulations	2013	Article III, Section B, Final Subdivision Application	Article VI, Items 1-2, Sediment and Erosion Control Bonding
Inland Wetlands and Watercourse Regulations	2013	Section 8, Application Procedures	Section 14, Enforcement
Ordinance Establishing Fines and Citation Procedure for Zoning Violations	2003		Zoning Enforcement Officer fines \$150 for each and every day such erosion and sedimentation violations exist.

The following BMPs were selected by the Town to address the Construction Site Stormwater Runoff Control minimum control measure of the General Permit (Section 6(a)(4)/page 25):

4.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	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 (Due 7/1/2019)	Complete	Review and revise current town land use regulations to include reference to specific documents for design of sedimentation and erosion control BMPs.	Upgrade and enforce land use regulations.	Land Use Inspector, Asst. DPW Director, Planning & Zoning Commission, Inland Wetlands Commission	Completed 12/19/2018	
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	Complete	Fire, Water and Health Departments, Planning & Zoning, Asst. DPW Director, Inland Wetlands Commission (when necessary) review site plans. County Soil and Water Conservation District makes recommendations on submitted site plan.	Conduct Site Plan Review Procedures.	Land Use Inspector, Asst. DPW Director, Planning & Zoning Commission, Inland Wetlands Commission	Ongoing	See regulations listed in Table 4.1.
4-3 Review site plans for stormwater quality concerns (Ongoing)	Complete	Planning & Zoning and Assistant DPW Director review site plans for stormwater quality concerns. Consultant engineers conduct detailed engineering reviews of site plans.	Town Committees review plans in accordance with regulations.	Land Use Inspector, Asst. DPW Director, Planning & Zoning Commission, Inland Wetlands Commission	Ongoing	The 2018 Zoning Amendments Section 4.14 C states Site Stormwater Management Plan and Report requirements.
4-4 Conduct site inspections (Ongoing)	Complete	Inspectors from the Town are authorized to inspect construction sites. The Town enforces regulations	Continue to conduct site inspections and enforce site regulations.	Land Use Administrator, Asst. DPW Director	Ongoing	See regulations listed in Table 4.1.

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	Date completed or projected completion date	Additional Details
4-5 Implement procedure to allow public comment to site development (Ongoing)	Complete	The Town utilizes their government structure for processing information submitted by the public for receipt and consideration. Information submitted by the public is forwarded to the appropriate Town Department for consideration.	Public comments are forwarded to the appropriate Department.	Land Use Administrator, Asst. DPW Director	Ongoing	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Complete	Continue notifying construction site developers and operators of requirements for registration.	Communicate to developers about DEEP construction stormwater permit through permitting process.	Land Use Administrator, Asst. DPW Director	Ongoing	

4.2 Construction Site Runoff Control Activities

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

The Planning & Zoning and Assistant DPW Director will continue to review site plans in accordance with the various town regulations. Site plans are reviewed within seven days of the application date. The Land Use Inspector reviews comments from the Water Department. The applicants must also file a sediment & erosion control check list with their application.

The Town is completing an update of the Town Plan of Conservation and Development with the goal of completing the plan by June of 2024. In late July/ early August the plan is to update the Zoning Regulations and Subdivision Regulations to further increase LID requirements in accordance with the newly adopted Connecticut Stormwater Quality Manual.

Inspectors from the Town will continue to conduct site inspections.

The Town Departments will continue to communicate to developers about DEEP construction stormwater permit through permitting process. Existing stormwater compliance checklists to provide developers on stormwater management compliance requirements are available within Town Stormwater Regulations.

5 POST-CONSTRUCTION STORMWATER MANAGEMENT

Under the General Permit Section 6(a)(5), the Town shall require developers to “consider the use of low impact development (LID) and runoff reduction site planning and development practices prior to the consideration of other practices in the permittee’s land use regulations, guidance or construction project requirements to meet or exceed those LID and runoff reduction practices identified in the Stormwater Quality Manual.”

The Town currently has the following procedures for the enforcement of the stormwater regulations:

Zoning Regulations

January 1, 2017

Stormwater Amendment January 7, 2019

Section 13.2, Enforcement

Subdivision Regulations

March 1, 2013

Planning & Zoning

Inland Wetlands and Watercourse Regulations

Effective Date: July 1, 1974

As amended to: June 3, 2013

Section 14, Enforcement

Ordinance Establishing Fines and Citation Procedure for Zoning Violations

Adopted September 2, 2003

The following BMPs were selected by the Town to address the Post-Construction Stormwater Management minimum control measure of the General Permit (Section 6(a)(5)/page 27):

5.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	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 (Due 7/1/2021)	In Progress	Continue procedures for addressing post-construction BMPs including projects with 1 to 5 acres in disturbance. Formally, revise regulations by 7/1/2022.	Update regulations.	Land Use Inspector, Asst. DPW Director	Started 7/1/2019 Projected 7/1/2025	The revised Zoning Regulations include LID measures. Update Subdivision Regulations, and Inland Wetlands and Watercourse Regulations to include LID.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/2021)	Complete	Enforce LID/ runoff reduction regulations through site plan review.	Development and redevelopment projects will include LID/ runoff reduction measures.	Land Use Inspector, Asst. DPW Director	Completed 7/1/2021	The Town encourages use of rain gardens and infiltrators for onsite residential homes.
5-3 Identify retention and detention ponds in priority areas (7/1/2019)	Complete	The Town provided a list of retention and detention ponds throughout the Town including priority areas.	List and map of retention and detention ponds in priority areas	Asst. DPW Director	Completed 7/1/2020	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	Ongoing	Implementing long-term maintenance of stormwater basins and treatment structures through scheduled maintenance based.	Inspect and maintain basins and structures in accordance to long-term plan.	Asst. DPW Director	Completed 7/1/2020	Public basins and structures are maintained by the DPW while privately owned are maintained by owner.

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	Date completed or projected completion date	Additional Details
5-5 DCIA mapping (Due 7/1/2020)	Complete	A Baseline DCIA map was developed. The map will be used to develop the Retrofit Program.	Update DCIA mapping.	Asst. DPW Director Consultant	Completed 7/1/2019	
5-6 Address post-construction issues in areas with pollutants of concern	N/A	There are no pollutants of concern. Inspect construction areas in accordance with regulations.	Enforce construction BMPs.	Asst. DPW Director	N/A	There are no impaired waters in the Town.

5.2 Post-Construction Stormwater Management Activities

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

Continue to include LID/runoff reduction measures in development and redevelopment projects. LID is defined in the 2019 Zoning Regulation Amendments. Inland Wetlands and Watercourse Regulations are in the process of being updated to include stormwater and LID practices. The Subdivision Regulations follow the old Connecticut Stormwater Quality Manual and will be further updated in 2024 - 2025.

Town committees will continue procedures for addressing post-construction BMPs including projects with 1 to 5 acres in disturbance.

A Maintenance Plan for stormwater ponds and treatment structures was completed on July 1, 2020.

5.3 Post-Construction Stormwater Management Reporting Metrics

Post-Construction Stormwater Management Reporting Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	238.98 acres
DCIA disconnected (redevelopment plus retrofits)	In progress
Retrofits completed	Ongoing
DCIA disconnected	In progress
Estimated cost of retrofits	N/A
Detention or retention ponds identified	22 ponds identified this year

5.4 Method to Determine Baseline DCIA.

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

The Town will choose from the following methods developed by CT NEMO:

- Method 1 involves assuming impervious Cover (IC) from the CT NEMO map is 100% connected; therefore, IC will equal DCIA.
- Method 2 involves using the equations on UConn NEMO’s website to estimate DCIA based on the development density in each basin.
- Method 3 involves calculating DCIA through map analysis and field checking.

A combination of the above mentioned three methods was utilized.

6 POLLUTION PREVENTION / GOOD HOUSEKEEPING

Under the General Permit Section 6(a)(6), the Town shall “implement an operations and maintenance program for permittee-owned or – operated MS4s that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned or – operated MS4s.” The following BMPs were selected by the town to address the Pollution Prevention/ Good Housekeeping minimum control measure of the General Permit (Section 6(a)(6)/ page 31):

6.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	Date completed or projected completion date	Additional Details
6-1 Develop/Implement formal employee training program (Ongoing)	Complete	Training was conducted.	Implement annual training meetings.	Asst. DPW Director	Ongoing	The annual training was completed in 2021 by Weston & Sampson.
6-2 Implement MS4 property and operations maintenance (Ongoing)	Ongoing	Review current operation and maintenance procedures. Town parks have pet waste programs and scheduled trash collection. DPW has procedures for vehicle maintenance.	Update and implement MS4 operation and maintenance procedures.	Asst. DPW Director	Ongoing	The Town provides mutt mitts® (plastic bags for dog waste) at parks to encourage citizens to pick up pet waste.
6-3 Implement coordination with interconnected MS4s	Ongoing	Meet with operators of interconnected MS4s. Coordinate operations and maintenance procedures.	Coordinate with interconnected MS4s.	Asst. DPW Director	Ongoing	The Town and DOT have coordinated on connecting Bronson Road into Union City Road (Route 68) and Pinecrest Drive into Waterbury Road (Route 69).
6-4 Develop/Implement program to control other sources of pollutants to the MS4	In Progress	Develop program to control other sources of pollutants.	Develop and implement program to control other sources of pollutants.	Asst. DPW Director	Ongoing	The Town has been implementing this program through DEEP permits for individual industrial and municipal facilities.

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Responsible Department or Person	Date completed or projected completion date	Additional Details
6-5 Evaluate additional measures for discharges to impaired waters	N/A	Not applicable because there are no impaired waters.	Not applicable because there are no impaired waters.	Asst. DPW Director	N/A	
6-6 Track projects that disconnect DCIA (Ongoing)	Ongoing	Track projects that disconnect DCIA.	Report projects that disconnect DCIA in annual reports.	Asst. DPW Director	Projected 7/1/2024	Rain gardens are proposed for future residential subdivisions
6-7 Implement infrastructure repair/rehab program (Due 7/1/2021)	Ongoing	Repairing and rehabilitating the MS4 infrastructure in a timely manner is ongoing.	Implement infrastructure repair/rehab program.	Asst. DPW Director	Ongoing	The Town has been performing repairs/rehab on MS4 infrastructure as required and on a periodic basis.
6-8 Develop/Implement plan to identify/prioritize retrofit projects (Due 7/1/2020)	Complete	Plan developed to identify/prioritize retrofit projects.	Database of identified/prioritized retrofit projects. Analyzed Town properties with high DCIA.	Asst. DPW Director	Completed 7/1/2020	
6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/2022)	Ongoing	Track projects that disconnect DCIA and include in annual report is ongoing.	Implement retrofit projects.	Asst. DPW Director	Projected 7/1/2024	
6-10 Develop/implement street sweeping program (Ongoing)	Complete	All streets were swept after the snow melted.	Street sweeps are conducted annually.	Asst. DPW Director	Ongoing	All roadways, parking lots and facilities are swept at least once per year. Areas of concern are swept more than once.
6-11 Develop/implement catch basin cleaning program (Ongoing)	Complete	Continue Catch Basin Maintenance Program.	Catch basins are cleaned in accordance with the Program.	Asst. DPW Director	Ongoing	
6-12 Develop/implement snow management practices (Ongoing)	Ongoing	Develop and implement standard operating practices for snow management.	Implement standard snow management practices.	Asst. DPW Director	Ongoing	

6.2 Prevention/Good Housekeeping Activities

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

Continue to conduct Street Sweeping Program, Catch Basin Cleaning Program, and standard operating practices for snow management.

Continue following operation and maintenance procedures.

6.3 Pollution Prevention/ Good Housekeeping Reporting Metrics

Pollution Prevention/ Good Housekeeping Reporting Metrics	
Employee training provided for key staff	10/21/2022
Street sweeping	
Curb miles swept	62 miles
Volume (or mass) of material collected	Unknown
Catch basin cleaning	
Total catch basins in priority areas	Unknown
Total catch basins in MS4	2100
Catch basins inspected	500
Catch basins cleaned	600
Volume (or mass) of material removed from all catch basins	Unknown
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	Magic salt and sand
Total amount of each deicing material applied	1,600 tons
Type(s) of deicing equipment used	None
Lane-miles treated	N/A
Snow disposal location	
Staff training provided on application methods & equipment	No
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	N/A
Reduction in turf area (since start of permit)	N/A
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	N/A

6.4 Catch Basin Cleaning Program

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

This will consist of inspecting and cleaning catch basins on a regularly scheduled basis. The Town will use the following criteria for inspecting and cleaning their catch basins:

- The Town, at a minimum, will annually evaluate and, if necessary, clean catch basins and other stormwater structures that accumulate sediment. Typically, one third of the catch basins in Town are cleaned each year to prevent having to clean subsurface storm sewer pipe segments between structures. The Town staggers the catch basin cleaning, so that all the catch basins are cleaned every three years.
- Priority areas will be established to maximize the effectiveness of the Town's available resources for the routine inspections. These priority areas will be developed using the town's knowledge of problem areas, where sediment/debris has been known to accumulate in higher quantities. Geographical location, climate, traffic patterns and vertical sag locations may also be factors in determining priority areas.

The Town will evaluate roads in in the immediate vicinity of watercourse and waterbodies, and the Town will implement additional catch basin cleanings as needed.

6.5 Retrofit Program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rational for the selection of those projects and the total DCIA to be disconnected upon completion of each project. (7/1/2020)

A Retrofit Plan was completed on July 1, 2020. The plan focuses on low impact development projects that can be implemented in different types of areas: low to medium density residential, high density industrial, commercial and residential, and roadways. Potential projects on Town owned land will be prioritized over commercial and residential projects because the Town has the authority to make changes to their own property. The total DCIA to be disconnected upon completion of each project will be included in the report.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years. (Due 7/1/2022)

Future rain gardens are required for residential subdivisions. In the spring of 2023, two rain gardens will be constructed.

Roof drains for new residential developments need to be connected to underground detention such as infiltrators.

PART II: IMPAIRED WATERS INVESTIGATION AND MONITORING PROGRAM

MS4s that discharge to impaired streams shall be monitored. Screening of outfalls that discharge to impaired waters shall begin within one year of the effective date of the General Permit. According to the 2016 Integrated Water Quality Report, the Town of Prospect does not contain any impaired waters; therefore, the Town is not required to conduct impaired waters outfall monitoring. The Integrated Water Quality Report is published every two years, and the Town will conduct impaired waters monitoring if any streams are classified as impaired in the future.

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 Stormwater Pollutants

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 Prospect does not contain any impaired waters; therefore, the Town is not required to conduct impaired waters outfall monitoring.

2 SCREENING DATA FOR OUTFALLS TO IMPAIRED WATERBODIES

2.1 Screening Data

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

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

Outfall ID	Latitude / Longitude	Sample date	Parameter	Results	Name of Laboratory (if used)	Follow-up required? *
N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

Pollutant of concern	Pollutant threshold
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	<ul style="list-style-type: none"> E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	<ul style="list-style-type: none"> Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

3 FOLLOW-UP INVESTIGATIONS

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall ID	Status of drainage area investigation	Control measure to address impairment
N/A	N/A	N/A

4 PRIORITIZED OUTFALL MONITORING

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 ID	Latitude / Longitude	Sample date	Parameter(s)	Results	Name of Laboratory (if used)
N/A	N/A	N/A	N/A	N/A	N/A

PART III: ADDITIONAL IDDE PROGRAM DATA

1 ASSESSMENT AND PRIORITY RANKING OF CATCHMENTS DATA

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
N/A	N/A	N/A

2 OUTFALL AND INTERCONNECTION SCREENING AND SAMPLING DATA

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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

3 CATCHMENT INVESTIGATION DATA

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
N/A	N/A	N/A

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;

8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

3.2 Key Junction Manhole Dry Weather Screening and Sampling Data

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

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

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
N/A	N/A	N/A	N/A	N/A	N/A

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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

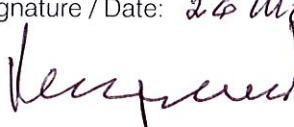
PART IV: CERTIFICATION

1 CERTIFICATION REQUIREMENTS

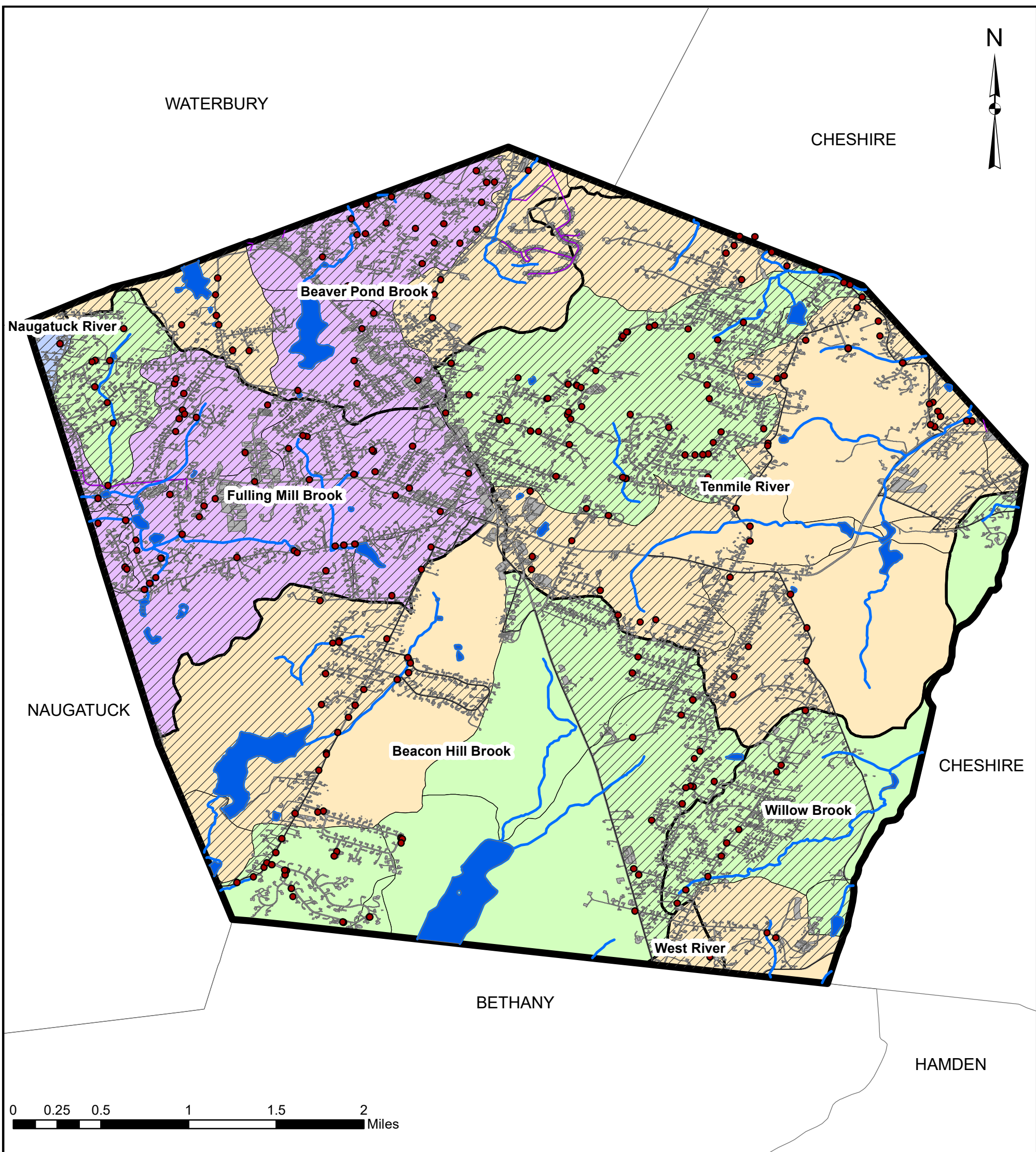
This plan and any document, including but not limited to any notice, information or report, which is submitted to the Commissioner of the CTDEEP under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems shall be signed by the chief elected official or principal executive officer, and by the individual or individuals responsible for preparing such document as defined in Section 22a-430-3(b) (2) of the Regulations of Connecticut State Agencies.

2 PLAN CERTIFICATION AND SIGNATURE

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name: Robert Chatfield Mayor Director of Department of Public Works	Print name: Lauren Coles, P.E. Technical Specialist Weston & Sampson Engineers, Inc.
Signature / Date: <i>26 March 2024</i> 	Signature / Date: <i>Lauren Coles, P.E. 3/25/2024</i>
Email: info@townofprospect.org	Email: coles.lauren@wseinc.com

APPENDIX A
OUTFALL MAP



**FIGURE 1
OUTFALLS AND DCIA**

- Legend**
- OUTFALLS
 - WATERBODY
 - WATERCOURSE
 - ▨ URBANIZED AREA
 - SEWER
 - ▭ TOWN BOUNDARY
 - IMPERVIOUS COVER
 - DCIA 0% - 1 %
 - DCIA 1% - 3%
 - DCIA 3% - 6%
 - DCIA 6%- 10%

ANNUAL REPORT 2019
TOWN OF PROSPECT



SOURCE: CTDEEP GIS DATA 2014

APPENDIX B
SEPTIC FAILURES REPORT

Septic Repairs- Prospect January 1, 2023 – Dec. 2023			
	Date of Application for Approval to Construct	Address	
1	1/17/2023	27 Sherwood Drive	
2	1/24/2023	7 Birchwood Terrace	
3	2/9/2023	3 Old School	
4	2/9/2023	11 Luke Street	
5	2/13/2023	32 Maria Hotchkiss Road	
6	3/28/2023	3 Richard Lane	
7	4/6/2023	87-89 Lakewood Road	
8	4/6/2023	2 Sills Ave	
9	4/10/2023	52 Union City Road	
10	4/11/2023	4 Rockridge Terrace	
11	4/11/2023	14 Corrine Drive	
12	4/12/2023	463 Matthew Street	
13	4/14/2023	18 Rozum Circle	
14	4/18/2023	36 Platt Drive	
15	4/25/2023	15 Robindale	
16	5/22/2023	10 Timber Hill Road	
17	5/22/2023	1 Cedar Hill Road	
18	5/22/2023	49 Heritage Drive	
19	6/7/2023	225 Matthew Street	
20	6/26/2023	11 Cheryl Lane	
21	6/27/2023	52 Smokerise Circle	
22	6/28/2023	9 Blue Trail Drive	
23	7/7/2023	38 Williams Drive	
24	7/7/2023	59 Putting Green	
25	7/11/2023	68 Cook Road	
26	7/27/2023	3 Richard Lane	

	Date of Application for Approval to Construct	Address	
27	8/7/2023	29 Straitsville Road	
28	9/8/2023	4 Union City Road	
29	9/8/2023	19 Catherine Drive	
30	9/13/2023	44 Williams Drive	
31	9/13/2023	27 Morris Road	
32	9/18/2023	75 Spring Road	
33	9/25/2023	24 Corrine Drive	
34	10/6/2023	4 Barry Lane	
35	10/31/2023	67 Waterbury Road	
36	11/1/2023	9 Porter Hill Road	
37	11/8/2023	15 Lakeview Road	