

**2023 ANNUAL REPORT**

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

***Registration No. GSM000021***

*for*

*Town of Cheshire, CT  
84 South Main Street  
Cheshire, CT 06410*



Prepared By:

**Barton  
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**MS4 General Permit**  
**Town of Cheshire 2023 Annual Report**  
**Existing MS4 Permittee**  
**Permit Number GSM000021**  
**January 1, 2023 – December 31, 2023**

**Primary MS4 Contact: Daniel Bombero; Capital Projects Manager; (203) 271-6650; dbombero@cheshirect.org**

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This report documents Town of Cheshire 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.

**Executive Summary**

Submission of this report by the Town of Cheshire maintains compliance with the reporting requirements and registration (no. GSM000021) under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4), submitted to the State of Connecticut Department of Energy and Environmental Protection ('CT DEEP') Commissioner for activities located within the Town of Cheshire. The Town of Cheshire certifies by this report that the terms and conditions of the General Permit are being met to the maximum extent practicable (MEP).

To date, Barton & Loguidice has completed much of the dry weather screening and sampling of the Town's existing and newly identified outfalls (693 municipally-owned). Significant updates to the Town's GIS were completed in order to verify municipal outfalls, interconnections, update mapping that was noted as incorrect during field inspections, and map drop-down catch basins (catch basins that discharge directly into a waterway with no other piping connected to the system).

In 2024, through the efforts of Barton & Loguidice, the Town will continue working toward the completion of all dry weather outfall Illicit Discharge Detection and Elimination (IDDE) screening and sampling, and wet weather impaired outfall sampling efforts for all of the municipally-owned outfalls identified in the Town to the maximum extent practicable.

Through the field investigation process, several outfalls in the MS4 system that were previously mapped were identified as incorrect and needed to be updated based on actual field conditions. Despite the slow pace of this endeavor, large questionable areas of the Town's outfall mapping were able to be resolved, missing structures added, and piping corrected to match the true conditions. Barton & Loguidice's efforts assisted in reducing the burden on the Town for mapping locations that could be resolved in the field allowing the Town to focus on other aspects of the MS4 permit. By performing this action, Barton & Loguidice located 243 new outfalls, including 138 new drop down catch basins.

**Outfall Monitoring Status**

During the reporting period (January 1, 2023 through December 31, 2023), significant efforts were completed for dry weather screening including screening 196 outfalls and collecting 17 samples. The 2023 dry weather screening and sampling data identified no new High Priority Outfalls requiring an investigation. To date, dry weather screening and sampling efforts have been completed at 636 town-owned outfalls with 104 outfalls being sampled during dry weather events and two of those outfalls were identified with suspected illicit discharge and were ranked at the top of the high priority category for further investigations.

In 2023, 30 outfalls discharging to impaired waters were sampled during wet weather events. To date, 38 of 44 outfalls have been sampled during wet weather events and 18 of those outfalls were identified with suspected illicit discharge and were ranked at the top of the high priority category for further investigations.

From 2021 through 2023, B&L continued a wet weather investigation associated with the discharge at the South Main Street retrofit project site. The outfall at this location was initially sampled in November 2020 as part of the process for verifying a DCIA disconnection project location at the outfall. The sample collected in November 2020 had an exceedance for E. coli and was resampled for additional parameters in March 2021 to verify if the discharge from this outfall was suitable for the retrofit project. The follow-up samples collected in March 2021 indicated that the exceedance in E. coli was no longer present; however, elevated levels of surfactants were noted in the March 2021 samples. In December 2022, B&L expanded its search along South Main St. During this sample event exceedances for E. coli and surfactants were identified. In May of 2023, B&L completed additional mapping efforts of the catchment area and conducted a dry weather investigation along South Main Street. Sample results identified exceedances in chlorine, surfactants and ammonia. It is anticipated that another wet weather investigation will be conducted in 2024. The Town is still in the process of identifying the source of the pollutants and will be issuing a notification to the contributor of the pollutant once confirmed.

The Town of Cheshire will continue to conduct outfall screening and sampling efforts throughout the next reporting period (January 1, 2024 through December 31, 2024). This effort will be conducted simultaneously with the Town's MS4 mapping for stormwater outfalls.

#### **Household Hazardous Waste and Solid Waste Outreach and Collection**

The Town of Cheshire remains involved in efforts to protect groundwater and stormwater through its cooperation with RWA's Household HazWaste Central (Household Hazardous Waste Collection Center) located at 90 Sargent Drive in New Haven, by providing collection days for the public during the summer and fall of each year. In 2023, 307 Cheshire households participated in bringing hazardous materials and/or used waste oils to HazWaste Central.

During 2023, the Town hosted two collection events for town residents for electronic recycling and was able to collect 37,093 lbs. of electronics. The Town offered two collection events for mattress recycling in 2023 and collected a total of 466 mattresses during those events. Curbside yard waste and bulky waste collections were offered in 2023 and a total of 251 tons of leaves, 250 bags of grass clippings, and an estimated 675.58 tons of bulky waste materials were collected. The Town also offered scrap metals collection for residents in 2023 and was able to recover 107,630 lbs. of scrap metal.

## Part I: Summary of Minimum Control Measure Activities

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

#### 1.1 BMP Summary

BMP	Activities in current reporting period	Sources Used (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
1-1 Implement public education and outreach	Publications by NEMO are available through the following offices: <ul style="list-style-type: none"> <li>• Planning &amp; Zoning</li> <li>• Inland Wetlands</li> <li>• Engineer/Public Works</li> <li>• Chesprocott Health District</li> </ul>	NEMO	Brochures and fliers	General Public	Maintain copies of selected NEMO and QRWA brochures in Town Hall and water quality literature in the Town Library. Rotate brochure content semi-annually.	Environmental Planner	Ongoing	It is anticipated that the Town will continue to provide publication by CT-NEMO at the following offices in 2024, Planning & Zoning, Inland Wetlands, Public Works, Engineering, and Chesprocott Health District
	The Town is in the process of collecting materials to post to the Town website.	EPA / DEEP	Website	General Public	Update Town's website to include links to stormwater related sites.	Environmental Planner	Ongoing	In the spring of 2024, the Town intends to update and add education materials to the stormwater website.
	The Town anticipates continuing to assess the feasibility of submitting mailers with the tax bills in 2024.			Mailers	General Public	Assess feasibility of mailing stormwater-related education materials with tax bills. Based on the outcome of this goal, send materials with tax bills.	Town Engineer	Ongoing

BMP	Activities in current reporting period	Sources Used (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
1-2 Address education/ outreach for pollutants of concern	In 2024, the Town anticipates having copies of “Caring for Your Septic System” for distribution in the Planning Department.		Brochures and webpage	General Public	Place copies of “Caring for Your Septic System” in the Planning Department for free distribution.	Environmental Planner	Ongoing	In the spring of 2024, the Town intends to update and add education materials to the stormwater website.
	The Town anticipates developing educational materials targeted to industries in 2024.		Mailers and webpage	Industrial facilities	Develop or identify from other source(s) education materials targeted to industries, with at least one material being targeted to agricultural uses or bedding plant growers. Mail materials to local industries.	Town Engineer with Chamber of Commerce	Ongoing	In the spring of 2024, the Town intends to update and add education materials to the stormwater website.
	The Town was not able to provide letters to dentists in 2023. The Town will continue attempting to submit mailers to dentists in 2024.		Mailers	Dentists	Send letter to local dentists to ensure compliance with mercury removal equipment.	Town Engineer	Ongoing	
1-3 Work with local organizations to promote environmental activities	Notifications of education programs offered by the Southwest Conservation District (SCD) are available at the Town Hall.	Southwest Conservation District	Brochures	General Public	Post notifications of education programs offered by the Southwest Conservation District (SCD) at the Town Hall.	Environmental Planner	Ongoing	In the spring of 2024, the Town intends to update and add education materials to the stormwater website.
	The Town provided public notice of QRWA activities in 2023.			General Public	Establish contact with QRWA and identify avenues Town staff can use to provide public notice of QRWA activities.	Environmental Planner	Ongoing	

BMP	Activities in current reporting period	Sources Used (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
1-4 Educate municipal officials and land use commissions on proper SW management	Key MS4 staff members completed National Stormwater Center - Stormwater Permit Inspector Training in Oct-2022		In-person	Town staff	Coordinate one NEMO or Southwest Conservation District or knowledgeable technical staff to present to Town staff and land use commissions.	Town Planner	10/28/22	Certification of completion issued to Marek Kement, P.E., L.S.

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

- Maintain copies of selected NEMO and QRWA brochures in Town Hall and water quality literature in the Town Library.
- Update the Town's Stormwater webpage to include stormwater related education information.
- Attempt to continue to coordinate with local schools to promote use of educational programs offered by Whitney Water Center.
- Continue to assess feasibility of mailing stormwater-related education materials with tax bills.
- Continue to assess feasibility of having the Town's Environment Commission to coordinate the Town's public education program.
- Provide copies of "Caring for Your Septic System" in the Planning Department.
- Develop educational materials targeted to industries.
- Send letter to local dentists to ensure compliance with mercury removal equipment.
- Continue to post notifications of education programs offered by the Southwest Conservation District (SCD) at the Town Hall.
- Continue to **provide public notice of QRWA activities.**
- Provide proper stormwater management education to Town staff and land use commissions.

### 1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Public Notification of Illicit Discharge and Connection Stormwater Ordinance	All Sewer Users (Information provided in Sewer Use bill mailing)	Illicit Discharge Ordinance	All	Town Engineer and Water Pollution Control Authority
2023 Annual Fall Festival Stormwater Poster Boards/Kiosk	General Public	General Stormwater Management	All	Town Environment Commission and Cheshire Land Trust
2023 Clean-Up Events	General Public	Environmental Clean-Up	Not Applicable	Town Environment Commission and Cheshire Land Trust
Environmental/Nature Kiosks on open space properties	General Public	Environment	Not Applicable	Town Environment Commission and Cheshire Land Trust
RWA Hazardous Waste collection May-October 2023	Waste disposal was collected from 307 households in 2023	Hazardous Waste Disposal	Not Applicable	RWA/Public Works Department

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Electronic Recycling Event March 18, 2023 November 19, 2023	General Public 16,483 lbs 14,490 lbs 37,093 lbs in 2023	Electronic Waste Disposal	Not Applicable	Public Works Department
Mattress Recycling – 2 Events in 2023	General Public 466 total mattresses collected	Mattress Recycling	Not Applicable	Public Works Department
Yard Waste Drop Off	General Public 251 tons leaves 250 bags grass clippings 248 tons in 2023	Yard Waste Disposal	Not Applicable	Public Works Department
Scrap Metal Collection	General Public 107,630 lbs scrap metal recycled	Scrap Metal Recycling	Not Applicable	Public Works Department
Asphalt Millings Recycling	General Public	Use of recycled millings to stabilize dirt parking areas and driveways	Sediment	Public Works Department
Bulk Waste Collection	675.58 tons in 2023	Public Works Department	Bulk Waste Collection	675.58 tons in 2023

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

### 2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Location Posted	Additional details
2-1 Final Stormwater Management Plan publicly available	Complete	Notice of the SMP's availability was provided in compliance with the General Permit. Notice of the SMP's availability was provided to the QRWA.	Place draft copy of plan in Town Engineer's Office on or before February 15, 2017. Provide notice to the QRWA that the draft plan is available for public comment.	Town Engineer	2017	<a href="https://www.cheshirect.org/cms/One.aspx?portalId=8580940&amp;pageId=17504799">https://www.cheshirect.org/cms/One.aspx?portalId=8580940&amp;pageId=17504799</a>	The Town Stormwater Management Plan is maintained for public inspection online and at the Town Engineer/ Department of Public Works office.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Location Posted	Additional details
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	Complete	In 2023, notice was provided to the public on 1/26/23 and the draft report was available from 2/16/23 – 3/28/23.	Notify public of draft Annual Report and document comments received.	Town Engineer	Notice post 1/26/23 Draft available 2/16/23	<a href="https://www.cheshirect.org/cms/One.aspx?portalId=8580940&amp;pageId=17504799">https://www.cheshirect.org/cms/One.aspx?portalId=8580940&amp;pageId=17504799</a>	Public notice for the 2023 Draft Report was posted to the Record Journal on 1/31/2024. The 2023 Draft Report was available for review from 2/15/24 – 3/28/24

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

- Continue to provide notice of draft Annual Reports and updates to the Town’s Stormwater Management Plan (SMP).

**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/ projected	Additional details
3-1 Develop written IDDE program (Due 7/1/19)	In Progress	From 2022 thru 2023, the Town’s consultant, B&L, worked on creating a draft IDDE plan and is in the process of reviewing it with the Town.	Develop written plan of IDDE program.	Town Engineer	7/1/2023	In 2024, the Town anticipates finalizing the IDDE Plan.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	Substantially Complete	In 2017-19, the Town hired a summer engineering student intern to inspect and document outfall conditions using tablet technology developed by Engineering Staff and GIS consultant. In 2020-2023, the Town, with assistance from B&L, conducted significant efforts to locate and confirm the locations of outfalls in priority areas and have located many new outfalls that were not previously identified.	Prepare GIS Map Layer of priority outfalls.	Town Engineer	12/31/22 Ongoing	The Town will continue to update its mapping as new information is gathered in 2024.



BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
3-3 Implement citizen reporting program (Ongoing)	Complete/ Ongoing	A phone number was added to the Town's stormwater webpage for reporting illegal discharges. The Town also added MS4 categories to the existing IWorQ system.	Use IWorQ for citizen reporting.	Town Engineer	7/1/17 Ongoing	In 2024, the Town will continue to keep a phone number available on the Town's stormwater website for reporting illicit discharges
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	Complete	Town Council approved an Illicit Discharge and Connection Stormwater Ordinance, which became effective on 10/1/19.	Revise Sewer Regulations.	Town Engineer	9/17/19	
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	Complete/ Ongoing	Specific fields were added to IWorQ for tracking IDDE. The Town also uses excel and access spreadsheets, along with GIS, for IDDE tracking.	Use IWorQ for IDDE tracking.	Town Engineer	7/1/18 Ongoing	
3-6 Address IDDE in areas with pollutants of concern	In Progress	While cleaning catch basins, Public Works crews are trained to note possible signs of contamination, and to keep records of any evidence of illicit discharges in addition to recording their pre-and post-cleaning measurements. Detailed digital inspection forms are now completed on IPADs, and resulting data can be queried. So far, no visible pollution has been reported in any structure during inspection or maintenance activities.	Evaluate areas with pollutants of concern for IDDE.	Town Engineer	Ongoing	
3-7 Develop detailed MS4 infrastructure mapping	In Progress	The Town has hired a consultant to assist with mapping of MS4 infrastructure and maintains a GIS database of gross particle separators, detention basins, retention basins, storm drains and outfalls. It is maintained electronically within the Town's GIS system by the Public Works & Engineering Department.	Prepare GIS Map Layers of MS4 infrastructure.	Town Engineer	12/31/21	The Town will continue to update this information in the field to the maximum extent practicable in 2024.

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

- Finalize draft IDDE plan.
- Continue efforts to locate and confirm the locations of outfalls in priority areas.
- Continue to evaluate areas with pollutants of concern for IDDE.
- Continue to develop and update the stormwater system mapping.

**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.**

Location*	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)*
<b><i>Citizen Reports of suspected illicit discharges noted in 2023 are provided below:</i></b>						
21 Diana Ct	N/A	MS4	N/A	Extreme high surfactants and E Coli	Issued notice to owner for evaluation and mitigation	N/A
906 S Main St	1/15/24 – 9 Days	MS4	-	Force Main Rupture	Repaired broken section of pipe	N/A
<b><i>SSOs occurring July 2017 through the end of the Reporting Period are provided below:</i></b>						
Marion Road	2019; unknown	MS4	Unknown	Pipe lining company	Promptly and satisfactorily addressed.	N/A
Talmadge Road	2019; unknown	MS4	Unknown	Pool draining / Home owner	Promptly and satisfactorily addressed.	N/A
Sierra Court	2019; unknown	MS4	Unknown	Soil Erosion / Road contractor	Promptly and satisfactorily addressed.	N/A
Harrison Road	2019; unknown	MS4	Unknown	Cold asphalt patch runoff	Promptly and satisfactorily addressed.	N/A
Exit 26 I 84 W & I 84 / Ex	1/17/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
400 Industrial Ave /Bozzu	3/10/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
Cheshire St & E Johnson A	3/13/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
E Johnson Ave & Highland	3/19/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
Highland Ave & 1 691 / Hig	3/26/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
40 Manor Dr	4/5/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
W Johnson Ave & Knotter D	5/4/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
12 Warren St	6/19/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
400 E Johnson Ave /Whole	6/26/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
30 Fieldstone Ct /Target	6/29/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
1456 Highland Ave	6/30/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
110 Creamery Rd	7/15/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
140 Cook Hill Rd /Elim Pa	7/17/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
207 Wiese Rd	7/20/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
106 Belridge Rd	7/31/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
Highland Ave & Schoolhous	7/8/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
Coleman Road	8/2020; unknown	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A
Crestwood Drive	8/2020-9/2020; unk	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A

Location*	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)*
831 S Main St /Shell	8/9/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
Academy Rd & Judson Ct /A	9/19/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
Mt Sanford Rd & S Brooksv	9/20/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
Yalesville Road	9/2020; unknown	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A
S Meriden Rd & Academy Rd	9/23/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
45 Park Pl	9/25/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
Elmwood Dr & S Main St /E	10/14/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
901 Waterbury Rd /Shell G	10/27/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
84 S Main St / Townhall	10/3/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
I 691	10/31/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
286 Industrial Ave	10/8/2020; unknown	MS4	Unknown	Pool filter washout onto driveway / Pool & Water Company of CT	10/8/2020 – Phone call to business owner and Notice of Violation sent in follow-up.	N/A
400 E Johnson Ave /Whole	11/12/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
993 Mountain Rd	11/12/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
I 84 /I 84/Ramp 26 I 84 E	11/20/2020; unknown	MS4	Unknown	Spill - Oil or other combustible liquid	Clean up performed and material disposed	N/A
Monarch Place	11/2020-12/2020; unk	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A
Highland Ave & Main St/H	11/8/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
275 Schoolhouse Rd / Bozzu	12/12/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
29 Hol Ly Rd	12/13/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
Copper Valley Court	12/2020; unknown	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A
East Mitchell Road	2/6/2021	Local stream	500-1000 gal	Sewer line blockage	Line unblocked. System operating normally	N/A
1721 Highland Ave.	2/12/2022	No	Under 300-gal	Sewage line blocked with grease	Lines jetted downstream	N/A
1700 Highland Ave.	8/20/2022	No	<1000-gal	Sewage line blocked with grease	Lines jetted downstream	N/A
1045 Waterbury Rd	2/2/2023, 10:00 AM	Not Reported	≤500 gallons	Sewage Line Blockage - Grease	Not Reported	N/A
1325 Cheshire St	5/1/2023, 9:00 AM	Quinnipiac River	1.5-2 mgd	Excessive Flows - Storm Event	Not Reported	N/A
1325 Cheshire St	12/18/2023, 11 hours	Not Reported	100,000 gallons	Excessive Flows - Storm Event	The flow subsided from the storm, so our grit channel was no longer hydraulically overloaded.	N/A

\*Note: IWorQ is the system used for tracking illicit discharges. Currently these records and files are maintained separately by three different Town or quasi-Town entities, which are queried annually for a listing of the IDDE enforcement activities. An IDDE tracking spreadsheet will be prepared to obtain these details moving forward.

### 3.4 Provide a summary of actions taken to address septic failures during the Reporting Period 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
Filing System	1791 Orchard Hill	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	540 North Brooksvale	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	136 Jinny Hill Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District

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
Filing System	202 Mountain Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	90 Barledge Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	50 St. Joseph Street	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	152 Percival Drive	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	92 Talmadge Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	225 Harrison Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	212 Argyle Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	180 Sandbank Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	510 Wallingford Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	15 Chatham Woods Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	50-60 Country Club Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	756 Cook Hill Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	235 Woodpond Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	75 Williamsburg Drive	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	94 Vista Terrace	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	28 East Ridge Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	15 Mountain Edge Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	5 Bear Path Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	450 Radmere Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	28 Iris Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	330 Sir Walters Drive	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	15 Nob Hill Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	361 Charles Drive (pipe only)	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	157 Birch Drive	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	486 Coleman Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	100 Brentwood Drive	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	176 Woodland Drive	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	514 Blacks Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	567 West Johnson	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	104 Hickory Lane	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	725 Reservoir Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	1096 Peck Lane	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	20 Foxwood Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	30 Frances Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	782 Cornwall Ave	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	1141 Fox Hill Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	1081 South Meriden Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	986 Prospect Road	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District
Filing System	45 Inverness Court	Failing Septic System	Septic system repaired in 2023	Unknown	Chesprocott Health District

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

The Town uses a work order / complaint management software program, iWorQ. This web-based program is used to track the status of stormwater related activities. When a stormwater related work order / complaint comes in, the Public Works Department is notified and promptly addresses the issue. The Town of Cheshire’s stormwater webpage includes a phone number that the public can use to submit a report.

**3.6 IDDE reporting metrics**

Metrics	
Estimated or actual number of MS4 outfalls	693 (a decrease from 866 in 2022 due to updated mapping)
Estimated or actual number of interconnections	TBD
Outfall mapping complete	90%
Interconnection mapping complete	TBD
System-wide mapping complete (detailed MS4 infrastructure)	90%
Outfall assessment and priority ranking	693 initiated (increased from 494 in 2022)
Dry weather screening of all High and Low priority outfalls complete	636 (an decrease from 772 in 2022 due to updated mapping)
Catchment investigations complete	2 in progress
Estimated percentage of MS4 catchment area investigated	1%

**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 Town conducts annual training of Public Works Department and Water Pollution Control Division (WPCD) employees on BMPs for stormwater management and spill response. A virtual training was provided to select personnel from the Department of Public Works and the Engineering Department on May 12, 2022. Annual Industrial Stormwater (SWPPP) and SPCC trainings were provided to members of the DPW and WWTF staff on June 5 and June 16, 2023.

## 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/ projected	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit (Due 7/1/20)	Ongoing	In 2022-2023, the Town's consultant, B&L completed a review of the Town's land use regulations for compliance with the MS4 General Permit.	Revise Land Use Regulations.	Town Planner	Dec 2024	In 2024, it is anticipated that the Town will review B&L's recommendations towards improving compliance with the MS4 General Permit.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	Complete/ Ongoing	Site plans are uploaded by the applicant to the building permit files through Viewpoint Cloud where they can be checked for consistency with plans approved by commissions. In 2023, 15 P&Z / Wetland applications were reviewed.	Review and improve existing interdepartmental coordination.	Town Planner	7/1/17 Ongoing	It is anticipated that the Town will continue in 2024 to implement plans for interdepartmental coordination in site plan review and approval
4-3 Review site plans for stormwater quality concerns (Ongoing)	Complete/ Ongoing	Town road and drainage construction projects are presented to the Inland Wetlands and Watercourse Commission and/or Planning and Zoning Commission for review and approval prior to implementation.	Continue to improve process of site plans for stormwater quality concerns.	Town Engineer	7/1/17 Ongoing	It is anticipated that the Town will continue in 2024 to review site plans for stormwater quality concerns
4-4 Conduct site inspections (Ongoing)	Complete/ Ongoing	Construction site inspections were performed by P&Z Department for site plans and Public Works and Engineering for new road construction.	Continue to improve site inspections process.	Environmental Planner/ZEO	7/1/17 Ongoing	It is anticipated that the Town will continue construction site inspections in 2024

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
4-5 Implement procedure to allow public comment on site development (Ongoing)	Complete/ Ongoing	The Town Planning and Zoning Commission, Environment Commission, and Inland Wetlands and Watercourse Commission hold regular meetings, which are open to the public for comment on permit applications, Town events, and other related topics. Public hearings are usually held as part of the land use application process for all new and redevelopment projects.	Continue existing procedure for allowing public comment on site development.	Town Planner	7/1/17 Ongoing	It is anticipated that The Town Planning and Zoning Commission, Environment Commission, and Inland Wetlands and Watercourse Commission will continue to hold regular meetings that are open to the public in 2024
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Complete/ Ongoing	A notice for contractors/developers to apply for the CT DEEP Construction General Permit appears on all land use applications. Additionally, copies of CT DEEP permits and instructions are available in the Public Works office.	Provide notice of need for CT DEEP's General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities to developers and engineers.	Town Planner	2/1/18 Ongoing	It is anticipated that the Town will continue to notify developers and other entities in 2024 about their potential obligation to apply for an industrial stormwater permit
4-7 Hyperlinking "as-built" plans and record maps to a GIS index	In Progress	Road and drainage as-builts, including the two new roads, are hyperlinking in the Town's Geocortex application. Individual house as-builts have been scanned and are available to town staff, but are not yet hyperlinked.	Hyperlinking "as-built" plans and record maps to a GIS index to facilitate their retrieval	GIS Consultant	Ongoing	It is anticipated that the Town will hyperlink the road and drainage as-builts to the Town's GIS server in 2024.

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

- Review ordinances / regulations for compliance with MS4 General Permit and update, as needed.
- Continue to review all design plans for stormwater quality concerns.
- Continue to conduct construction inspections.
- Continue to follow all State public notice and hearing requirements and follow up on all comments and complaints received.
- Continue to provide notice of need for Construction Stormwater GP to developers and engineers.
- Continue to hyperlink "as-built" plans and record maps to the GIS index.

## 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/ projected	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning (Due 7/1/22)	In Progress	In 2022-2023, the Town's consultant, B&L completed a review of the Town's land use regulations for compliance with the MS4 General Permit.	Revise regulations to meet MS4 Permit post-construction stormwater management requirements.	Town Planner	Dec 2024	In 2024, it is anticipated that the Town will review B&L's recommendations towards improving compliance with the MS4 General Permit.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	Complete/ Ongoing	Construction site inspections are performed for compliance with approved applications. The P&Z Department inspects site plans and Public Works and Engineering inspect new road construction.	Prepare enforcement log.	Town Planner	7/1/19 Ongoing	It is anticipated that the Town will have the land use regulations evaluated in 2024 for recommendations towards improving compliance with the MS4 General Permit.
5-3 Identify retention and detention ponds in priority areas (Due 7/1/20)	Substantially Complete	The Town maintains a GIS database of detention basins and retention basins.	Prepare GIS Map Layer of retention and detention ponds in the priority area.	Town Engineer	7/1/19 Ongoing	In 2024, it is anticipated that the Town will conduct a review of the mapping and make updates to the ponds, as necessary.
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	Ongoing	In 2022-2023, the Town's consultant, B&L began to prepare a long-term maintenance plan for stormwater basins and treatment structures.	Prepare a written operations and maintenance plan for stormwater basins and treatment structures.	Town Engineer	Dec 2024 Ongoing	It is anticipated that the Town will have a final plan in place by Dec 2024.
5-5 DCIA mapping (Due 7/1/20)	Substantially Complete – Ongoing	The DCIA for the priority areas have been calculated using the available impervious cover layers.	Determine DCIA and include as a GIS Layer in the MS4 mapping.	Town Engineer	3/31/21 Ongoing	The DCIA mapping will be updated, as necessary, to include retrofit, development and development projects.
5-6 Address post-construction issues in areas with pollutants of concern	Complete/ Ongoing	The Town documents post-construction issues in areas with pollutants of concern using IWorQ.	Use IWorQ log to document post-construction issues in areas with pollutants of concern.	Town Engineer	Ongoing	



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

- Review ordinances/ regulations for compliance with MS4 General Permit and update, as needed.
- Continue to enforce LID/runoff reduction requirements for development and redevelopment projects.
- Finalize Stormwater Structures Management Plan for stormwater basins and treatment structures.
- Continue updating the DCIA mapping, as necessary.

**5.3 Post-Construction Stormwater Management reporting metrics**

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	420 acres
Acres DCIA disconnected (redevelopment plus retrofits)	TBD
Retrofit projects completed	2 completed, 2 in design phase
Percent DCIA disconnected	TBD
Estimated cost of retrofits	TBD
Detention or retention ponds identified	19 total

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

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

## 6. POLLUTION PREVENTION/GOOD HOUSEKEEPING (Section 6(a)(6) / page 31)

### 6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
6-1 Develop/implement formal employee training program (Ongoing)	Complete/ Ongoing	The Town conducts training of Public Works Department and Water Pollution Control Division (WPCD) employees on BMPs for stormwater management and spill response. A virtual training was provided to select personnel from the Department of Public Works and the Engineering Department on 5/12/22. Annual Industrial Stormwater (SWPPP) and SPCC trainings were provided to members of the DPW and WWTF staff on June 5 and June 16, 2023.	Prepare an employee training document.	Public Works Director	Ongoing	It is anticipated that the Town will continue to conduct training of Public Works Dept. and Water Pollution Control Division personnel in 2024.
6-2 Implement MS4 property and operations maintenance (Ongoing)	Complete/ Ongoing	Continued to follow SOPs. Salt piles at municipal facilities are stored under cover and on impervious surfaces. Town industrial stormwater discharges are monitored. Vehicle maintenance is performed undercover. The DPW Garage, Art's Place Center and Water Pollution Control Facility are inspected in accordance with the SWPPP & SPCC for each facility. The Police and Fire Stations have recently been identified as requiring SPCC Plans.	Evaluate Town owned vehicles and facilities for chemical storage and stormwater best management practices.	Public Works Director	7/1/21 Ongoing	The Town has contacted with B&L to conduct inspections of Town-owned/-maintained facilities.
6-3 Implement coordination with interconnected MS4s	Ongoing	Through the outfall identification process, the Town has identified several interconnections with the neighboring towns/cities.	Document progress in Annual Report	Public Works Director	Ongoing	
6-4 Develop/implement program to control other sources of pollutants to the MS4	Ongoing	The Town has had a contract with a vendor for mitigating the geese at Mixville Park since 2019.	Document progress in Annual Report	Town Engineer	Ongoing	

<b>BMP</b>	<b>Status</b>	<b>Activities in current reporting period</b>	<b>Measurable goal</b>	<b>Department / Person Responsible</b>	<b>Date completed/ projected</b>	<b>Additional details</b>
6-5 Evaluate additional measures for discharges to impaired waters*	Ongoing	The Town has had a contract with a vendor for mitigating the geese at Mixville Park since 2019, which is impaired for bacteria.	Document progress in Annual Report	Town Engineer	Ongoing	
6-6 Track projects that disconnect DCIA (Ongoing)	Ongoing	A table was created for tracking disconnected DCIA. The Town will work to fill out the tracking table in 2024.	Document progress in Annual Report	Town Engineer	Dec 2024 Ongoing	
6-7 Implement infrastructure repair/rehab program (Due 7/1/21)	Ongoing	After the completion of outfall inspections, the Town will begin to prioritize the maintenance needed to outfalls, correct structural deficiencies, add riprap where appropriate, or remove sediment accumulations.	Document progress in Annual Report	Public Works Director	Dec 2024 Ongoing	It is anticipated that the remainder of outfalls will be inspected in 2024 and a list of needed repairs will be generated at that time.
6-8 Develop/implement plan to identify/prioritize retrofit projects (Due 7/1/20)	Ongoing	Conceptual plans for South Main Street and Jocelyn Lane have been developed. In 2024, the Town will work with B&L to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.	Document progress in Annual Report	Public Works Director	Dec 2024	The Town has contracted with a consulting firm to assist with developing a retrofit plan.
6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/23)	To Be Started	In 2024, the Town will work with B&L to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.	Implement retrofit projects		Dec 2024	
6-10 Develop/implement street sweeping program (Ongoing)	Complete/ Ongoing	In 2023, the Town continued to conduct street sweeping during the spring months.	Document progress in Annual Report	Public Works Director	7/1/17 Ongoing	
6-11 Develop/implement catch basin cleaning program (Ongoing)	In Progress/ Ongoing	In 2023, the Town continued with catch basin cleaning program to the maximum extent practicable.	Inspect all catch basins within the priority area.	Public Works Director	7/1/18 Ongoing	A vac truck was purchased in 2018 for the purpose of the catch basin cleaning program. Detailed digital inspection forms are now completed on IPADs, and resulting data can be queried.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
6-12 Develop/ implement snow management practices (Due 7/1/18)	Complete/ Ongoing	The Town stopped sanding roads around 2006 and follows state guidelines with respect to best management practices.	Document progress in Annual Report	Public Works Director	7/1/17 Ongoing	
6-13 Conduct Town-wide Bulky Waste Pickup	Complete/ Ongoing	Town-wide bulky waste collection continued to be provided in 2023 and approx. 675 tons of waste was collected. Leaf pick up occurred from 11/6/23-12/8/23.	Collect bulky waste every 5 years.	Public Works Director	10/1/19 Ongoing	The Town conducts collection events under the direction of Town Management, as needed.

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

- Continue to conduct annual MS4 training events.
- Continue to review MS4 property and operations maintenance practices and look for areas to optimize.
- Fill out the tracking spreadsheet for DCIA disconnection.
- Begin to prioritize the maintenance needed to outfalls, correct structural deficiencies, add riprap where appropriate, or remove sediment accumulations.
- Continue efforts to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.
- Continue street sweeping, catch basin cleaning, and snow management practices.
- Continue to contract with vendor for mitigating the geese at Mixville Park.

### 6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes – 5/12/22; SWPPP & SPCC trainings 6/5/23 & 6/16/23
Street sweeping	
Curb miles swept	153 miles
Volume (or mass) of material collected	~200 cubic yards
Catch basin cleaning	
Total catch basins in priority area	TBD
Total catch basins town	5,962
Catch basins inspected	485
Catch basins cleaned	450
Volume (or mass) of material removed from all catch basins	300 cubic feet
Volume removed from catch basins to impaired waters (if known)	Unknown

<b>Metrics</b>	
Snow management	
Type(s) of deicing material used	salt treated with magnesium and liquid deicers
Total amount of each deicing material applied	1,225 tons of treated salt; 1,310 tons of bulk salt; 1,830 gallons of liquid deicer
Type(s) of deicing equipment used	Trailer brine bar spreader, plow truck sanders
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	154 miles
Snow disposal location	N/A
Staff training provided on application methods & equipment	In 2023 training was provided to new staff, as needed
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.**

In 2017, Town crews logged and inspected approximately 1,000 catch basins, while they were being cleaned by an outside vendor. In 2018, the Town inspected 400 catch basins. Of the 400 catch basins, the Town cleaned 135 catch basins with a newly purchased vac truck. In 2019, the Town inspected, logged, and cleaned 1,090 catch basins. In 2020, the Town inspected, logged, and cleaned 802 catch basins. In 2022, the Town inspected, logged, and cleaned 481 catch basins. In 2023, the Town inspected and logged 485 catch basins and cleaned 450 catch basins. In total the Town has cleaned 4,254 catch basins and inspected 3,954 under the 2017 MS4 Permit.

When catch basins inspections take place, detailed digital inspection forms are competed on IPADs and the resulting data can be queried. With the information logged, the Town knows the depth of each sump and at what point the catch basins will reach 50% full.

#### 6.5 Retrofit Program

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

The Town, in collaboration with B&L, continues to evaluate potential stormwater disconnection projects, working to identify and execute projects as appropriation of funds are made available.

The Town continues to evaluate an opportunity to remove portions of a 650 linear foot, 36-inch diameter storm drain, located on South Main Street, that flows across Regional Water Authority property and discharges directly into an intermittent tributary of the Mill River. This project could provide for the buffering of bacteria and pollutants by providing soil and vegetation interface and low-flow recharge from the approximately 80-acre primarily residential watershed (but also drains a portion of CT Route 10). The Town has met with the water company representatives and developed a basemap. The Town continues to assess the water quality currently flowing through this pipe that lies within the aquifer and in close proximity to an active wellfield to make sure that removal of the pipe will not adversely affect drinking water quality.

In November of 2021, capital funds were made available to support the design and construction of a project identified on Roselyn drive. This project is expected to redirect the first inch of runoff from an 11.3+/- acre watershed area with three of these acres being impervious cover. The area of Town open space identified for the stormwater infiltration area is positioned well and would ultimately direct flow into the Willow Brook off Rockview Drive. The Town is currently planning on the design and permitting phase of this project to occur in calendar year 2024.

The Town installed a 2,400 s.f. rain garden at the Byam Rd. Fire Station that disconnected 40,000 s.f of impervious area, including the entire parking lot as well as part of the heavily traveled road that previous discharged directly into a watercourse. This stormwater disconnect project was funded by, and coordinated with, UConn CLEAR utilizing grant money from the National Fish and Wildlife Foundation. A link to the project details can be found on the Town's stormwater page.

Town installed a 1,000 s.f. rain garden at 55 Railroad Ave. that prevented 10,000 s.f. worth of impervious pavement stormwater runoff from entering the Town's MS4 system. Native plants and vegetation were installed as part of the restoration process.

In 2022, the Town and B&L completed the following tasks related to the Roslyn Street MS4 disconnection project:

- Existing conditions and initial survey layout complete
- Town installed a 1,000 s.f. rain garden at 55 Railroad Ave. that prevented 10,000 s.f. worth of impervious pavement stormwater runoff from entering the Town's MS4 system. Native plants and other vegetation were installed as part of the restoration process.
- Preliminary design is 100% complete on 2 projects.
- Final design is underway and is scheduled to be completed in 2023
- Easement acquisition is underway
- Construction will likely begin in the spring of 2024

In 2024 the Town will continue to work to identify potential opportunities for disconnection and work to secure funding to support the design and implementation of these projects to the maximum extent practicable.

**Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection annually in future years. (Due 7/1/23)**

In 2024, the Town will continue to identify and prioritize potential projects and funding for the Retrofit Program to the maximum extent practicable.

## Part II: Impaired waters investigation and monitoring

### 1. Impaired waters investigation and monitoring program

#### 1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution.

Nitrogen/ Phosphorus  Bacteria  Mercury  Other Pollutant of Concern

#### 1.2 Describe program status.

**Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.**

- In 2018-2019, wet weather screening activities were carried out by a summer intern. In 2020, funding for the summer intern was cut due to the COVID-19 pandemic. Wet weather screening efforts resumed at the end of 2020 with the hiring of Barton & Loguidice and sampling will continued at that time. From 2018-2019, three impaired outfalls were sampled. An additional 15 outfalls that were initially believed to be impaired outfalls were also sampled in 2018-2019. In 2020, five additional impaired outfalls were wet weather sampled. In 2023, 30 outfalls discharging to impaired water were sampled. To date, 38 of 44 impaired outfalls have been wet weather sampled. The Town anticipates completing the remaining impaired wet weather sampling in 2024.
- Of the 38 outfalls sampled to date, 18 of the outfalls will require investigations based on the results of the samples collected. Due to the recent updates to the impaired waterbodies data provided by UCONN Clear, several of the outfalls previously sampled now have new required impaired parameters. These outfalls will be revisited in 2024 to sample for the new required parameters.
- Because of the limited amount of Town impaired outfalls, wet weather samples will be collected at all impaired outfalls prior to selecting the six priority outfalls for annual sampling. B&L will continue to attempt to collect wet weather samples from the remaining impaired outfalls until all known locations are sampled. Once the remaining impaired wet weather samples are collected, B&L will focus on the wet weather investigation samples and the six annual priority outfall samples. Coordination with the qualifying rain events will continue to be conducted for future monitoring events. No additional changes have been made to the Stormwater Management Plan at this time.

In May 2023, 10 catch basins and manholes were screened during a dry-weather event and were sampled for: Chlorine, Surfactants (MBAs), Ammonia, Turbidity, E.Coli and Total Coliform. This effort was completed as part of an investigation process to identify potential pollutant sources prior to the construction of a treatment structure to disconnect parts of South Main Street.

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

#### 2.1 Screening data

Outfall ID	Latitude	Longitude	Sampling Date	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	Total Coliform (col/100mL)	E. Coli (col/100mL)	Phosphorous (mg/L)	Lab	Investigation Required
219	41.45355272	-72.90021183	11/30/2020	n/a	n/a	>24200	3650	n/a	Phoenix	Yes
300	41.52888408	-72.86768483	6/11/2019			n/a	7270		Phoenix	Yes
378	41.4596764	-72.9171558	11/30/2020	n/a	n/a	>24200	72	n/a	Phoenix	Yes
439	41.45964208	-72.90132747	3/2/2018	n/a	n/a	>24200	1070	n/a	Phoenix	Yes

Outfall ID	Latitude	Longitude	Sampling Date	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	Total Coliform (col/100mL)	E. Coli (col/100mL)	Phosphorous (mg/L)	Lab	Investigation Required
614	41.53692101	-72.87200743	3/2/2019			n/a	14100		Phoenix	Yes
662	41.54941261	-72.87090647	11/30/2020	31.2	2.37	n/a	404		Phoenix	Yes
746	41.56176324	-72.87865489	11/30/2020	10.81	9.29	n/a	323		Phoenix	No
840	41.54937452	-72.87071795	11/30/2020	8.63	2.37	n/a	538		Phoenix	Yes
181	41.53678738	-72.87154829	2/23/2023	1.93	1.76	n/a	259	0.055	Phoenix	No
182	41.53582815	-72.87239227	9/25/2023	4.56	8.4	n/a	20	0.057	Phoenix	No
183	41.53476679	-72.87171416	9/25/2023	8	10.33	n/a	4110	0.119	Phoenix	Yes
184	41.53067154	-72.8676963	9/25/2023	8.95	7.45	n/a	2760	0.094	Phoenix	Yes
208	41.53846386	-72.87167724	9/25/2023	2.75	8.7	n/a	20	0.019	Phoenix	No
271	41.53461883	-72.87213321	9/25/2023	3.95	9.4	n/a	1990	0.025	Phoenix	Yes
298	41.52933315	-72.87006084	9/25/2023	15	9	n/a	3130	0.45	Phoenix	Yes
336	41.47870551	-72.90501019	9/19/2023	10.45	19.6	n/a	n/a	n/a	Phoenix	No
354	41.47253207	-72.90437854	9/19/2023	14.7	36.5	n/a	n/a	n/a	Phoenix	No
379	41.45967831	-72.91701409	9/19/2023	n/a	n/a	>24200	24200	n/a	Phoenix	Yes
380	41.45946986	-72.91652634	9/19/2023	n/a	n/a	>24200	331	n/a	Phoenix	Yes
496	41.4806484	-72.90462545	9/19/2023	3.42	23	n/a	n/a	n/a	Phoenix	No
532	41.48416701	-72.90196695	9/19/2023	3.59	20.5	n/a	n/a	n/a	Phoenix	No
534	41.48642751	-72.89926317	9/19/2023	0.58	16.5	n/a	n/a	n/a	Phoenix	No
542	41.49399545	-72.89680646	6/14/2023	48.4	6.08	n/a	n/a	n/a	Phoenix	Yes
543	41.49495276	-72.89619858	6/14/2023	22.3	24.6	n/a	n/a	n/a	Phoenix	No
596	41.53694268	-72.92258505	9/25/2023	7.26	9.1	n/a	n/a	n/a	Phoenix	No
669	41.55512429	-72.90005957	6/14/2023	15.4	11.31	n/a	n/a	n/a	Phoenix	No
674	41.53719182	-72.92343547	6/14/2023	3.39		n/a	n/a	n/a	Phoenix	No
675	41.53722263	-72.92355677	6/14/2023	4.39		n/a	n/a	n/a	Phoenix	No
DCB_OLDL_1	41.45359856	-72.90026677	2/23/2023	1.98	0.84	2140	199	n/a	Phoenix	Yes
DCB_OLDL_2	41.4536698	-72.9002297	2/21/2023	0.84	0.98	1500	63	n/a	Phoenix	Yes
DCB_SURR_1	41.49804562	-72.88898353	8/15/2023	4.29	7.07	n/a	n/a	n/a	Phoenix	No
DCB_WALL_1	41.4950339	-72.89616784	6/14/2023	13.6	40.6	n/a	n/a	n/a	Phoenix	No
DCB_WALL_2	41.49509419	-72.89614419	6/14/2023	23.6	16.3	n/a	n/a	n/a	Phoenix	Yes
FAWN_1	41.47171937	-72.90156948	9/19/2023	3.4	8.37	n/a	n/a	n/a	Phoenix	No
FAWN_2	41.47171937	-72.90156948	9/19/2023	4.29	8.37	n/a	n/a	n/a	Phoenix	No
FORE_1	41.47214499	-72.90319239	9/19/2023	2.68	12.4	n/a	n/a	n/a	Phoenix	No
OLDL_1	41.45359058	-72.90036327	2/23/2023	1.44	3.26	12000	41	n/a	Phoenix	Yes
WALL_1	41.49496062	-72.89618743	6/14/2023	11.79	21.8	n/a	n/a	n/a	Phoenix	No



## 2.2 Credit for screening data collected under 2004 permit

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

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

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

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall ID	Status of drainage area investigation	Control measure to address impairment
In 2024, the Town will be focusing efforts on collecting wet weather samples from the remaining impaired outfalls to the maximum extent practicable, and will continue to attempt to collect wet weather samples from the impaired outfalls until all known locations are sampled. Once the remaining impaired wet weather samples are collected, the Town will focus on the wet weather follow-up investigations.		

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

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

Outfall	Latitude / Longitude	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)
Once the remaining impaired wet weather samples are collected, the Town will focus efforts on the six annual priority outfall samples. It is anticipated that this will be conducted in 2024.					

## Part III: Additional IDDE Program Data

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

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

See attachment provided with this report.

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

### 2.1 Dry weather screening and sampling data from outfalls and interconnections

Table 2.1a - Non-Impaired Waterbody Samples

Outfall ID	Latitude	Longitude	Sample Date	Temp (°C)	Conductivity (umhos/cm)	Salinity (g/kg)	Ammonia (mg/L)	MBAs (mg/L)	Chlorine (mg/L)	E. Coli (col/100ml)	Lab	Investigation Required
108	41.541147	-72.90066428	12/16/2020	8.4	433	0.31	0	1.5	0.11	<10	Phoenix	No
111	41.51851418	-72.88105052	12/16/2020	5.3	298	0.143	0.00	1.5	0	10	Phoenix	No
137	41.52580902	-72.87543904	1/26/2021	8.8	253	0.122	3.00	0.25	0.28	10	Phoenix	Yes
149	41.5479858	-72.88179943	1/12/2021	10.6	390	0.19	0.00	0.25	0	<10	Phoenix	No
151	41.53957672	-72.878841	3/30/2021	8.8	164	0.073	0.00	0.06	0.02	<10	Phoenix	No
152	41.5261725	-72.85921871	8/3/2021	15.4	401	0.271	0.00	0.09	0	<10	Phoenix	No
213	41.45071467	-72.89374901	4/9/2021	11.5	684	0.334	0.00	0	0.02	<10	Phoenix	No
229	41.54848595	-72.95263184	3/30/2021	8.4	211	0.094	0.25	0.1	0	10	Phoenix	No
237	41.53429092	-72.94621238	12/16/2020	6.64	7.3	0.05	0.00	0.5	0	10	Phoenix	No
243	41.55837433	-72.91343252	8/10/2021	22.7	635	0.298	0.00	0.19	0.02	<10	Phoenix	No
245	41.55076594	-72.95663757	12/16/2020	1.3	219	0.106	0.50	0.25	0.03	31	Phoenix	Yes
259	41.54518328	-72.96064722	12/16/2020	1.8	501	222	0.25	0.25	0	<10	Phoenix	No
262	41.53926123	-72.95208719	4/8/2021	12.5	238	0.113	0.00	0.04	0	74	Phoenix	No
263	41.53998597	-72.94741442	4/8/2021	11.5	464	0.213	0.00	0.09	0	<10	Phoenix	No
276	41.5299341	-72.93203732	12/16/2020	7.43	177	0.13	0.00	0.75	0	<10	Phoenix	No
278	41.51494736	-72.93413966	8/11/2021	23.3	134	0.0633	0.00	0.09	0	109	Phoenix	No
287	41.51372783	-72.89098075	12/16/2020	5.4	286	0.137	0.25	0.75	0	52	Phoenix	No
29	41.5224144	-72.93620839	1/21/2021	7.6	174	0.0828	0.00	0.5	0.11	<10	Phoenix	No
292	41.52623006	-72.87859347	1/26/2021	5.2	392	0.192	0.00	0.5	0.01	1480	Phoenix	No
293	41.52655853	-72.87539782	4/13/2021	13.4	552	0.249	0.00	0.1	0.01	<10	Phoenix	No
31	41.52231121	-72.92596582	1/21/2021	4.6	124	0.0595	0.00	0.5	0.32	10	Phoenix	No
323	41.48922803	-72.89277553	8/5/2021	19	331	0.219	0.00	0.09	0.04	52	Phoenix	No
328	41.48867286	-72.89243411	1/12/2021	6.2	189	0.091	0.25	0.25	0.01	2760	Phoenix	No
33	41.52493423	-72.92628542	12/2/2020	11.7	229	0.11	0.00	0.25	0.05	108	Phoenix	No
367	41.54338544	-72.86778966	12/16/2020	1.8	401	187	0.25	0.25	0	30	Phoenix	No
370	41.5552428	-72.92539846	12/16/2020	1.18	252	117	0.25	0.25	0.01	20	Phoenix	No
391	41.46617007	-72.93710876	8/10/2021	21.62	477	0.25	0.00	0.55	0.07	<10	Phoenix	No
416	41.47766211	-72.93036891	1/21/2021	6.4	281	0.138	0.25	0.25	0.01	<10	Phoenix	No
435	41.45901745	-72.91080776	7/14/2021	16.9	425	0.205	0.00	0.13	0.08	<10	Phoenix	No
452	41.46085506	-72.88389306	4/9/2021	12.2	447	0.213	0.00	0	0.02	10	Phoenix	No
457	41.46508423	-72.88628018	4/13/2021	11.5	315	0.153	0.25	0.12	0.08	<10	Phoenix	No
479	41.48389139	-72.9203706	1/21/2021	6.8	327	0.151	0.00	0.25	0	31	Phoenix	No

Table 2.1a - Non-Impaired Waterbody Samples

Outfall ID	Latitude	Longitude	Sample Date	Temp (°C)	Conductivity (umhos/cm)	Salinity (g/kg)	Ammonia (mg/L)	MBA's (mg/L)	Chlorine (mg/L)	E. Coli (col/100ml)	Lab	Investigation Required
490	41.48149774	-72.86800525	8/10/2021	20	381	0.183	0.00	0.22	0.06	341	Phoenix	No
5	41.50328241	-72.86783126	7/29/2021	19	165	0.0787	0.00	0.04	0	10	Phoenix	No
525	41.49791705	-72.92718582	12/28/2020	7.4	289	0.142	0.00	0.25	0.03	<10	Phoenix	No
526	41.49879644	-72.91559501	8/11/2021	19.9	438	0.299	0.00	0.19	0.02	110	Phoenix	No
530	41.49860217	-72.9143358	8/11/2021	23.6	458	0.306	0.25	0.11	0.17	3080	Phoenix	No
544	41.48899982	-72.90099914	1/12/2021	5.7	262	0.13	0.00	0.25	0	41	Phoenix	No
547	41.48326926	-72.87758338	1/21/2021	5	374	0.186	0.00	0.25	0.04	<10	Phoenix	No
549	41.48605141	-72.88190675	12/9/2020	7.1	326	0.15	0.00	0.5	0.09	<10	Phoenix	No
559	41.48805553	-72.88510945	1/12/2021	4.9	271	0.131	0.25	0.25	0.02	<10	Phoenix	No
6	41.50426707	-72.8678278	12/2/2020	8.91	115	0.08	0.00	0.25	0.02	75	Phoenix	No
602	41.5343902	-72.96053623	12/2/2020	7.6	103	0.0699	0.00	0.75	0.07	457	Phoenix	No
626	41.51442192	-72.88736196	12/16/2020	1.8	353	0.172	0.25	1	0.01	31	Phoenix	No
627	41.51527825	-72.90961094	12/2/2020	10.8	331	0.16	0.25	0.25	0	85	Phoenix	No
632	41.5181787	-72.93729949	12/2/2020	10.5	507	0.224	0.00	0.25	0.43	<10	Phoenix	No
639	41.53846914	-72.93696663	12/2/2020	8.9	200	0.132	0.00	0.75	0.08	<10	Phoenix	No
646	41.4838637	-72.89238177	1/26/2021	6.2	300	0.147	0.00	0.5	0.04	20	Phoenix	No
653	41.52548985	-72.88921659	12/16/2020	6.1	275	0.133	0.00	0.25	0.06	305	Phoenix	No
655	41.52735865	-72.87581712	12/2/2020	12.1	394	0.19	0.50	0.5	0	98	Phoenix	No
683	41.52452635	-72.88281875	12/2/2020	10.6	457	0.213	0.00	0.5	0	98	Phoenix	No
697	41.51282805	-72.91568176	12/2/2020	10.56	176	0.12	0.25	0.5	0	933	Phoenix	No
704	41.51383011	-72.90133407	12/2/2020	12.1	375	0.182	0.00	0.25	0.04	288	Phoenix	No
709	41.51034944	-72.85053762	12/2/2020	7.9	372	0.181	0.00	0.25	0	97	Phoenix	No
71	41.52874274	-72.90866628	1/26/2021	9.3	6703	3.609	1.00	0.75	0	<10	Phoenix	No
713	41.50339076	-72.93006758	12/2/2020	8.96	60	0.04	0.00	0.25	0.01	146	Phoenix	No
715	41.50515385	-72.9267303	12/2/2020	8.59	82	0.06	3.00	0	0	31	Phoenix	No
724	41.49399374	-72.91039754	12/28/2020	6.8	312	0.151	0.25	0.25	0.04	259	Phoenix	No
725	41.49472665	-72.90847496	12/28/2020	7.8	228	0.149	0.00	0.25	0.01	583	Phoenix	No
735	41.49492589	-72.87487149	3/30/2021	9	635.8	0.31	0.00	0.53	0.09	85	Phoenix	No
736	41.49331454	-72.87490986	3/30/2021	9.7	578.1	0.28	0.00	0.2	0.1	63	Phoenix	No
770	41.50694463	-72.92611625	12/2/2020	11.67	276	0.19	0.00	0.25	0	<10	Phoenix	No
798	41.5007667	-72.91416706	12/2/2020	8.69	187	0.13	0.25	0.25	0.06	148	Phoenix	No
810	41.49677474	-72.93062982	12/9/2020	13.4	434	0.232	0.00	0.25	0.15	<10	Phoenix	No
846	41.52572157	-72.87938344	12/2/2020	8	251	0.121	0.25	0.25	0	<10	Phoenix	No
847	41.52568183	-72.87933414	12/2/2020	7.4	195	0.0967	0.25	0.5	0.02	31	Phoenix	No
91	41.51690291	-72.87419198	12/16/2020	8.2	361	0.176	0.00	0.75	0.4	51	Phoenix	No

Table 2.1a - Non-Impaired Waterbody Samples

Outfall ID	Latitude	Longitude	Sample Date	Temp (°C)	Conductivity (umhos/cm)	Salinity (g/kg)	Ammonia (mg/L)	MBA's (mg/L)	Chlorine (mg/L)	E. Coli (col/100ml)	Lab	Investigation Required
BRIG_1	41.5347321	-72.91289976	4/8/2021	12.2	429	0.209	0.00	0.12	0	<10	Phoenix	No
CARR_1	41.49884473	-72.88686252	3/30/2021	12.8	352.8	0.17	0.50	0.18	0.01	<10	Phoenix	No
DUND_1	41.5379366	72.9135876	8/11/2021	22.57	469	0.24	0.00	0.15	0.12	<10	Phoenix	No
FAR_1	41.49475639	-72.89060175	3/30/2021	11.1	628.8	0.31	1.00	0.23	0	<10	Phoenix	No
FAR_4	41.49475639	-72.89060175	3/30/2021	12.5	545.2	0.27	0.00	0.25	0.09	<10	Phoenix	No
JARV_1	41.53431313	-72.91805086	1/12/2021	6.4	324	0.158	0.00	0.25	0.18	<10	Phoenix	No
OLDF_3	41.45439136	-72.88634912	4/9/2021	10.9	465	0.213	0.00	0	0.02	<10	Phoenix	No
OLDF_4	41.45527434	-72.88990668	4/9/2021	11.6	511	0.226	0.00	0	0	<10	Phoenix	No
PLAN_1E	41.52631238	-72.95787918	12/2/2020	11.3	692	0.339	0.00	0.25	0.32	10	Phoenix	No
PLAN_1W	41.52631238	-72.95787918	12/2/2020	12.1	271	0.13	0.00	0.25	0	20	Phoenix	No
RESE_1	41.50426112	-72.85196467	7/29/2021	18.6	376	0.181	0.00	0.09	0.2	20	Phoenix	No
SBRO_3	41.46651057	-72.92093252	7/14/2021	17.3	143	0.0705	0.00	0.06	0.02	10	Phoenix	No
TALM_1	41.49352395	-72.88192584	3/30/2021	11.9	680	0.33	0.00	0.24	0.13	<10	Phoenix	No
TALM_2	41.49352395	-72.88192584	3/30/2021	11.4	532.1	0.26	0.00	0.19	0.04	<10	Phoenix	No
WATE_2	41.53783009	-72.94486168	4/8/2021	12.6	304	0.147	0.00	0.1	0.03	10	Phoenix	No
WILL_1	41.49684613	-72.89167604	12/28/2020	7.1	164	0.084	0.25	0.25	0	171	Phoenix	No
847	41.52567337	-72.879333	11/13/2023	7.4	195	0.0967	0.25	0.5	0.02	31	Phoenix	No
277	41.51360467	-72.93392369	11/13/2023	9.7	268	0.13	0.25	0.03	0.01	< 10	Phoenix	No
PECK_2	41.52223902	-72.91418393	8/22/2023	21.8	486	0.213	0.00	0.08	0.02	189	Phoenix	No
PECK_3	41.52223902	-72.91418393	8/22/2023	22.5	535	0.235	0.25	0.11	0.17	189	Phoenix	No
297	41.52823632	-72.87300651	8/3/2023	21.1	648	0.298	0.00	0.06	0.1	52	Phoenix	No
643	41.51004471	-72.90644017	7/27/2023	26.6	560	0.37	0.25	0.34	0.1	1350	Phoenix	No
629	41.51526074	-72.91130853	6/7/2023	17.4	434	0.21	0.00	0.15	0.17	62	Phoenix	No
302	41.51822932	-72.91079871	6/7/2023	18.4	442	0.212	0.00	0.19	0.08	146	Phoenix	No
COOK_1	41.46816398	-72.89131822	6/5/2023	17	390	0.187	0.00	0.09	0.22	20	Phoenix	No
469	41.46845976	-72.88542793	6/5/2023	19.1	127	0.0597	0.00	0.03	0.02	< 10	Phoenix	No
HALF_N_1	41.4685132	-72.88555155	6/5/2023	19.3	126	0.0812	0.00	0.04	0.11	< 10	Phoenix	No
723	41.49821164	-72.91125154	5/26/2023	16.8	312	0.15	0.00	0.23	0	496	Phoenix	No
749	41.52809553	-72.87758365	5/24/2023	15.3	416	0.201	0.00	0.24	0.1	10	Phoenix	No
819	41.54903842	-72.88276238	5/24/2023	14.3	240	0.115	0.00	0.38	0.1	6870	Phoenix	No
142	41.54983694	-72.88437834	5/24/2023	17.8	524	0.229	0.00	2.5	0.1	> 24200	Phoenix	No
NPON_2	41.53884153	-72.86308577	4/19/2023	10.5	223	0.107	0.00	0.14	0.05	< 10	Phoenix	No
LANC_2	41.53176435	-72.91116648	4/19/2023	11.9	465	0.213	0.00	0.14	0.14	31	Phoenix	No

Table 2.1b - Impaired Waterbody Samples

Outfall ID	Latitude	Longitude	Sample Date	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	E. Coli (col/100mL)	Phosphorous (mg/L)	Lab	Investigation Required
184	41.53068	-72.86769743	8/3/2021	0.67	1.55	10	<0.01	Phoenix	No
298	41.52934161	-72.87006197	8/3/2021	0	0.39	63	0.025	Phoenix	No
300	41.52888408	-72.86768483	8/3/2021	0.18	0.37	10	0.013	Phoenix	No
816	41.48606161	-72.90204573	12/9/2020	n/a	n/a	52	n/a	Phoenix	No

## 2.2 Wet weather sample and inspection data

Outfall / Interconnection ID	Latitude	Longitude	Sample date	Escherichia Coli (col/100ml)
5	41.503282	-72.867831	6/11/2019	52
111	41.518514	-72.881051	6/11/2019	189
151	41.539577	-72.878841	3/2/2018	148
295	41.528044	-72.874202	6/11/2019	317
307	41.502885	-72.927298	6/11/2019	393
308	41.502637	-72.921495	6/11/2019	2910
389	41.466631	-72.920345	6/11/2019	12000
429	41.469176	-72.930446	6/11/2019	173
528	41.498698	-72.914979	6/11/2019	1610
562	41.485744	-72.872016	3/2/2018	5170
595	41.504524	-72.888261	6/11/2019	2220
632	41.518179	-72.937299	6/11/2019	1070
754	41.547757	-72.900775	3/2/2018	404
797	41.548096	-72.881329	3/2/2018	2280
810	41.496775	-72.93063	6/11/2019	1250

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

### 3.1 System Vulnerability Factor Summary

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

**See attachment provided with this report.**

### 3.2 Key junction manhole dry weather screening and sampling data

Outfall or Structure ID	Sample Date	Temp (°C)	Conductivity (umhos/cm)	Salinity (g/kg)	Chlorine (mg/L)	MBAs (mg/L)	Ammonia (mg/L)	E. Coli (col/100mL)	VOCs
354	5/18/2023	13.5	214	0.101	0.1	0.54	0.25	<10	N/A
UNKMH-DMH-141	5/18/2023	14.1	188	0.0902	0.2	0.24	0.5	256	N/A
CB6794-DMH-428	5/18/2023	12.2	179	0.086	0.1	0.21	0	<10	N/A
DMH-524-DMH-428	5/18/2023	14	211	0.0981	0.2	0.25	0	10	N/A
DMH-122-CB8420	5/18/2023	11.8	258	0.124	0.4	0.4	0	<10	N/A

### 3.3 Wet weather investigation outfall sampling data



Outfall or Structure ID	Sample Date	Temp (°C)	Conductivity (umhos/cm)	Salinity (g/kg)	Chlorine (mg/L)	MBAs (mg/L)	Ammonia (mg/L)	E. Coli (col/100mL)	VOCs
354	11/30/2020							6870	-
354	3/18/2021	8.2	149	0.0769	0.02	>2.5	0	144	ND
CB-FF476	3/18/2021	7.8	253	0.111	0	>2.5	0.25	31	ND
CB-FF457	3/18/2021	9.4	132	0.0627	0.01	0.18	0.25	161	ND
CB-FF569	3/18/2021	9.8	125	0.0504	0.002	0.17	0.25	41	ND
354	12/16/2022	6.7	501.6	0.25	0.05	0.33	0	2010	ND
CB6943	12/16/2022	5.9	343.4	0.16	0.16	0.48	0	203	ND
CB6944	12/16/2022	5.3	585.5	0.29	0.06	0.03	0	63	ND
CB6943-CB6922	12/16/2022	5.5	344.1	0.16	0.09	0.48	0	>24200	ND
CB8203-CB6922	12/16/2022	5.6	329	0.16	0.12	0.33	0	1110	ND
CB6924-CB6922	12/16/2022	5.9	373.4	0.18	0.37	0.4	0	1830	ND
CB7911-DMH139	12/16/2022	5.7	688.3	0.34	0.33	0.44	0	20	ND
CB6948-DMH139	12/16/2022	5.5	224.6	0.11	0.01	0.51	0.25	52	ND
DMH140-DMH-139	12/16/2022	5.6	310.1	0.15	0.03	0.43	0.25	1350	ND
CB6287-CB6290	12/16/2022	3	6.6	493	0.24	0.25	0.34	650	ND
CB6286-CB6290	12/16/2022	0.5	6.5	560	0.27	0.22	0.37	695	ND
CB6257-CB6924	12/16/2022	2	5.7	391.3	0.19	0.16	0.3	2110	ND
CB6923-CB6924	12/16/2022	0.5	5.2	363.1	0.17	0.23	0.3	336	ND

### 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
286 Industrial Ave	Poll & Water Company of CT	Residue from the Washout of a pool filter onto driveway	Visual observation with inspecting nearby bridge	10/8/20	10/8/20	Phone call to business owner and Notice of Violation sent in follow-up	

**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."

<b>Chief Elected Official or Principal Executive Officer</b>	<b>Document Prepared by</b>
Print name: <b>Sean M. Kimball</b> Town Manager, Cheshire	Print name: <b>T.J. Therriault</b> Barton & Loguidice, LLC
Signature / Date:  4/1/2024	Signature / Date:  4/1/2024
Email: townmanager@cheshirect.org	Email: tjt@bartonandloguidice.com













Catchment ID	Receiving Water	Wet Sampling Results Indicate Likely Illicit Discharge? <sup>1</sup>	Dry Screening Results Indicate Likely Illicit Discharge? <sup>1a</sup>	Discharging to Area of Concern to Public Health? <sup>2</sup>	Frequency of Past Discharge Complaints	Receiving Water Quality <sup>3</sup>	Density of Generating Sites <sup>4</sup>	Age of Development/Infrastructure <sup>5</sup>	Historic Combined Sewers or Septic? <sup>6</sup>	Aging Septic? <sup>7</sup>	Culverted Streams? <sup>8</sup>	Additional Characteristics	Sample Score	Overall Score	Priority Ranking
Information Source		Catchment inspections and sample results	Catchment inspections and sample results	GIS Maps	Municipal Staff	Impaired Waters List	Land Use/GIS Maps, Aerial Photography	Land Use Information, Visual Observation	Municipal Staff, GIS Maps	Land Use, Municipal Staff	GIS and Stormwater system Maps	Other			
Scoring Criteria (Yes = Problem)		Score is determined using an extrapolated formula based on the results		Yes = 3 No = 0	Frequent = 3 Occasional = 2 None = 0	Poor = 3 Fair = 2 Good = 0	High = 3 Medium = 2 Low = 1	High = 3 Medium = 2 Low = 1	Yes = 3 No = 0	Yes = 3 No = 0	Yes = 3 No = 0	TBD			
63	Tennile River Basin	n/a	n/a	0		0		2			0		0	2	625
64	Tennile River Basin	n/a	n/a	0		0		2			0		0	2	626
66	Tennile River Basin	n/a	n/a	0		0		2			0		0	2	627
73	Tennile River Basin	n/a	n/a	0		0		2			0		0	2	628
75	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	629
78	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	630
87	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	631
92	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	632
95	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	633
109	Tennile River Basin	n/a	n/a	0		0		2			0		0	2	634
110	Tennile River Basin	n/a	n/a	0		0		2			0		0	2	635
147	Honeypot Brook	n/a	n/a	0		0		2			0		0	2	636
150	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	637
171	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	638
174	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	639
175	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	640
187	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	641
199	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	642
200	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	643
204	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	644
218	Mill River Basin	n/a	n/a	0		0		2			0		0	2	645
225	Cuff Brook	n/a	n/a	0		0		2			0		0	2	646
226	Cuff Brook	n/a	n/a	0		0		2			0		0	2	647
227	Cuff Brook	n/a	n/a	0		0		2			0		0	2	648
390	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	649
396	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	650
397	Sanford Brook	n/a	n/a	0		0		2			0		0	2	651
398	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	652
400	Sanford Brook	n/a	n/a	0		0		2			0		0	2	653
408	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	654
409	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	655
417	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	656
418	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	657
422	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	658
431	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	659
442	Mill River Basin	n/a	NS	0		0		2			0		0	2	660
448	Mill River Basin	n/a	n/a	0		0		2			0		0	2	661
450	Mill River Basin	n/a	n/a	0		0		2			0		0	2	662
451	Mill River Basin	n/a	n/a	0		0		2			0		0	2	663
458	Mill River Basin	n/a	n/a	0		0		2			0		0	2	664
472	Mill River Basin	n/a	n/a	0		0		2			0		0	2	665
473	Mill River Basin	n/a	n/a	0		0		2			0		0	2	666
487	Broad Brook Basin	n/a	n/a	0		0		2			0		0	2	667
490	Broad Brook Basin	n/a	0	0		0		2			0		0	2	668
548	Broad Brook Basin	n/a	n/a	0		0		2			0		0	2	669
556	Mill River Basin	n/a	n/a	0		0		2			0		0	2	670
565	Mill River Basin	n/a	NS	0		0		2			0		0	2	671
568	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	672
569	Quinnipiac River Basin	n/a	NS	0		0		2			0		0	2	673
570	Mill River Basin	n/a	n/a	0		0		2			0		0	2	674
582	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	675
583	Willow Brook	n/a	n/a	0		0		2			0		0	2	676
585	Willow Brook Basin	n/a	n/a	0		0		2			0		0	2	677
603	Quinnipiac River Basin	n/a	NS	0		0		2			0		0	2	678
762	Mill River Basin	n/a	n/a	0		0		2			0		0	2	679
797	Quinnipiac River Basin	n/a	n/a	0		0		2			0		0	2	680
849	Mill River Basin	n/a	n/a	0		0		2			0		0	2	681
1	Broad Brook Basin	n/a	n/a	0		0		1			0		0	1	682
79	Honeypot Brook	n/a	NS	0		0		1			0		0	1	683
212	Mill River Basin	n/a	n/a	0		0		1			0		0	1	684
233	Tennile River Basin	n/a	n/a	0		0		1			0		0	1	685
235	Tennile River Basin	n/a	NS	0		0		1			0		0	1	686
236	Tennile River Basin	n/a	n/a	0		0		1			0		0	1	687
594	Quinnipiac River Basin	n/a	n/a	0		0		1			0		0	1	688
595	Honeypot Brook	n/a	n/a	0		0		1			0		0	1	689
600	Beaver Pond Brook Basin	n/a	n/a	0		0		1			0		0	1	690
601	Tennile River Basin	n/a	n/a	0		0		1			0		0	1	691
843	Mill River Basin	n/a	n/a	0		0		1			0		0	1	692
STRO_1	Tennile River Basin	n/a	n/a	0		0		1			0		0	1	693

**Scoring Criteria:**

<sup>1</sup> Previous wet weather screening results indicate impacts to impaired waters including:

Total Nitrogen >2.5 mg/L, Total Phosphorous >0.3 mg/L,  
E. Coli >235col/100 ml for swimming areas and >410 col/100 ml for all others or,  
Total Coliform >500 col/100 ml, or Fecal coliform >31 col/100ml for Class SA and >260 Col/100ml for Class SB, or  
Enterococci >104 col/100ml for swimming areas and >500 col/100ml for all others.

<sup>1a</sup> Previous dry weather screening results indicate likely sewer input if any of the following are true:

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

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

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

Poor = Waters with approved TMDLs (Category 4a Waters) where illicit discharges have the potential to contain the pollutant identified as the cause of the impairment

Fair = Water quality limited waterbodies that receive a discharge from the MS4 (Category 5 Waters)

Good = No water quality impairments

<sup>4</sup> Generating sites are institutional, municipal, commercial, or industrial sites with a potential to contribute to illicit discharges (e.g., car dealers, car washes, gas stations, garden centers, industrial manufacturing, etc.)  
To be completed once the piping of the area is completed

<sup>5</sup> Age of development and infrastructure:

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

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

<sup>7</sup> Aging septic systems are septic systems 30 years or older in residential areas.

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

Identifies Impaired Outfalls

NS= Not Sampled

Appendix B (A)(7)(e)(i) - pg 9

For each catchment being investigated, the permittee shall review relevant mapping and historic plans and records to the extent available, including but not limited to plans related to the construction of the storm drain or sanitary sewers in the catchment, prior work performed on the storm drain or sanitary sewers, local health official or other municipal data on septic failures or required upgrades, and complaint records related to SSOs, sanitary sewer surcharges, and septic system breakouts. This review shall be used to identify areas within the catchment with higher potential for illicit connections and System Vulnerability Factors that indicate a risk of sanitary or septic system inputs to the MS4 under wet weather conditions. Consultation with local or state health officials is strongly encouraged. The Permittee shall identify and record the presence of any of the System Vulnerability Factors described in the notes below.

Catchment ID	Receiving Water	1	2	3	4	5	6	7	8	9	10	11	12	13	14	SVFs Identified
		History of SSOs	Common or Twin Invert Manholes	Common Trench Construction	Storm/Sanitary Crossings (Sanitary Above)	Sanitary Lines with Underdrains	Inadequate Sanitary Level of Service	Areas Formerly Served by Combined Sewers	Sanitary Infrastructure Defects	SSO Potential In Event of System Failures	Sanitary and Storm Drain Infrastructure >40 years Old	Septic with Poor Soils or Water Table Separation	History of BOH Actions Addressing Septic Failure	Sampling Parameter Exceedance	Sampling Score	
137	Unnamed Waterbody	No									Yes			Category B	9	Sanitary and storm >40 years old
245	Unnamed Waterbody	No									Yes			Category B	3	Sanitary and storm >40 years old
219	Mill River (Hamden/Cheshire)-02	No									Yes			Bacteria	15	Sanitary and storm >40 years old
614	Quinnipiac River-04	No									No			Bacteria	6	
439	Mill River (Hamden/Cheshire)-02	No									No			Bacteria	2	
530	Unnamed Waterbody	No									Yes			Bacteria	5	Sanitary and storm >40 years old
300	Quinnipiac River-04	No									Yes			Bacteria	4	Sanitary and storm >40 years old
715	Willow Brook	No									Yes			Ammonia	6	Sanitary and storm >40 years old
662	Quinnipiac River-04	No									Yes			Turbidity	6	Sanitary and storm >40 years old
542	Mill River (Cheshire)-03	No									Yes			Turbidity	8	Sanitary and storm >40 years old
DCB_WALL_2	Mill River (Cheshire)-03	No									Yes			Turbidity	1	Sanitary and storm >40 years old
819	Unnamed Waterbody	No									Yes			Bacteria, Surfactants	7	Sanitary and storm >40 years old
840	Quinnipiac River-04	No									Yes			Bacteria, Turbidity	2	Sanitary and storm >40 years old

Per Appendix B (A)(7)(e)(i) - pg 9 - SVFs are identified as follows:

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