2021 ANNUAL REPORT

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

Registration No. GSM000015

for

Town of Suffield, CT 83 Mountain Road Suffield, CT 06078



Prepared By:



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MS4 General Permit Town of Suffield 2021 Annual Report Existing MS4 Permittee Permit Number GSM000015 January 1, 2021 – December 31, 2021 Primary MS4 Contact: Karen Isherwood, P.E.; Town Engineer; (860) 668-3876; kisherwood@SuffieldCT.gov

This report documents the Town of Suffield's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2021 to December 31, 2021 (reporting period).

Executive Summary

Submission of this report by the Town Suffield maintains compliance with the reporting requirements and registration (no. GSM000015) 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 Suffield. The Town of Suffield certifies by this report that the terms and conditions of the General Permit are being met to the maximum extent practicable (MEP).

The Town of Suffield, hired a Professional Engineering Consultant (Barton & Loguidice, LLC or B&L) who has completed much of the dry weather screening and sampling of the Town's existing and newly identified outfalls (267 municipally-owned). Through the efforts of Barton & Loguidice, the Town continues 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 MEP.

In 2021, with assistance of B&L, the Town's MS4 system mapping was updated, as deemed necessary. Updates included misidentified or missed municipal outfalls/interconnections, updating mapping identified as incorrect during field inspections, adding new structures found in the field that were not previously mapped, and connecting piping and catch basins to the system. Through the field investigation process, some areas of the MS4 system that were previously mapped by geo-referencing as-built drawings in GIS were identified as incorrect and needed to be updated based on actual field conditions. These areas of the Town's system mapping were able to be resolved by adding missing structures and piping corrected to match the true conditions. By performing this action, Barton & Loguidice located approximately 25 new outfalls, including 5 new drop down catch basins (catch basins that discharge directly to culverted waterbodies). During the mapping update process in 2021, the total number of municipal outfalls was reduced from 298 to 267, based on previous outfalls being confirmed as outlets to other structures (retention/detention ponds, open channels, culverts, etc.). The number of interconnections identified was increased from 9 to 12 in 2021. B&L also made efforts to map out all identified sanitary sewer overflows (SSOs) and failing septic systems to aid in tracking potential illicit discharge sources.

In 2021, B&L completed the dry weather screening process on an additional 53 outfalls with 15 additional samples collected during the dry weather screening process. To date, dry weather screening and sampling efforts were completed at 256 of 267 municipal outfalls and a total of 86 samples were collected. In 2021, of the 15

samples collected, one outfall was identified with suspected illicit discharges requiring an investigation. To date, eight outfalls were identified with suspected illicit discharges and were ranked at the top of the high priority category for further investigations.

B&L was able to collect three additional wet weather samples at impaired outfalls in 2021, and one of those outfalls was identified with suspected illicit discharges requiring an investigation. To date, all 14 impaired outfalls have been sampled during wet weather events and six of those outfalls were identified with suspected illicit discharge and were ranked at the top of the high priority category for further investigations. These six suspected illicit discharges are also identified as the six wet weather outfalls to be sampled annually by B&L. Recently, the impaired waterbody list for the state of Connecticut was updated thus changing which outfalls are considered impaired.

In 2021, B&L collected wet weather samples from the six priority outfalls selected for annual monitoring. Mountain Brook was removed from the impaired waterbodies list in 2021 based on the 2020 updated TMDLs for the waterbodies in Suffield. Based on the updated TMDLs, the following outfalls are no longer discharging to an impaired waterbody: COPP5, COPP6, STRA2 and PATR1. The total number of outfalls discharging to impaired waterbodies was decreased from 18 to 14. COPP6 was previously selected as a priority outfall for annual monitoring; this outfall will be replaced with outfall SGRA2 in 2022 for annual monitoring and COPP6 will be added to the top of the high priority list for future investigations.

In 2021, 12 IDDE investigations were initiated, eight locations were screened completely and four were unable to be completed because they were dry during the first round of screening. More attempts will be made to complete these investigations, most likely during the spring of 2022, when the groundwater levels are higher. For the investigations completely screened, reports are in the process of being generated and are anticipated on being completed early in 2022.

In 2021, B&L completed significant efforts to conduct inspections at 28 of the 34 suspected municipal stormwater treatment structures. B&L will continue to review the existing structures against available mapping to accurately map all known treatment structures for the Town. It is anticipated that B&L will complete the reporting for the previously inspected stormwater treatment structures, including recommended maintenance schedule and cost, early in 2022 and will continue to inspect any new structures identified in 2022, as necessary.

In 2021, all Town-owned properties were mapped and the sites with the greatest amount of impervious area were identified as potential candidates for retrofit projects. In 2022, the Town will continue working with B&L to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.

In 2021, B&L identified all industrial and commercial facilities within the Town that likely needed to be registered for CT DEEP's Industrial and Commercial Stormwater General Permits, who are not currently registered. B&L then prepared educational brochures regarding these stormwater permits. The Town plans on posting the educational brochures to the Planning & Zoning webpage in 2022, notifying these facilities of their potential obligation to register for these stormwater permits.

B&L evaluated the Town's land use regulations in 2021 with respect to construction stormwater runoff control and post-construction stormwater management. A report was prepared comparing existing regulations to MS4 General Permit requirements. Recommended regulatory revisions were included in this report. The Town intends to review these recommendations and revise its regulations, as necessary, to improve permit compliance.

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

ВМР	Activities in current reporting period	Sources Used (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable goal	Department/ Person Responsible	Additional details
1-1 Implement public education and outreach	A Stormwater Management Program webpage has been established. Links to various educational materials are hosted on the stormwater webpage, including Stormwater Quality Fact Sheets created by the Town for educating businesses of their impacts to stormwater.	CT DEEP, NRDC, UConn NEMO, New Hampshire Estuaries Project, EPA, Minnesota PCA	Town Website: <u>www.suffieldct.gov/</u> <u>departments/public-works/</u> <u>stormwater</u>	General Public	Distribute material online and social media	Department of Public Works	Educational topics included on the Stormwater Management webpage include general water quality, pet waste, household & landscaping, and business & development.
1-2 Address education/ outreach for pollutants of concern*	A Trash & Recycling website has been established that provides information on trash and recycling collection, leaf pick-up and HHW collection days. Links were added to the Stormwater Management webpage that address pollutants of concern.	Not Applicable	Town Website: <u>www.suffieldct.gov/</u> <u>departments/landfill</u>	General Public	Develop and Distribute Information on Bacteria Pollution and Other Pollutants of Concern	Department of Public Works	
1-3 Newspaper Article & Publication	Began drafting educational materials to be printed in the local papers and on social media.				Publish educational material in local papers and on social media	Department of Public Works	The Town is looking into providing additional information on the stormwater webpage.
1-4 Household Hazardous Waste Days	A link is on the Public Works Dept. website to inform the public of the annual HHW collection days.	Not Applicable	Town Website: www.suffieldct.gov/ departments/landfill	General Public	Continue qualifying local program	Department of Public Works	

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

- The Town will continue to provide the public with information on the impacts to stormwater discharges.
- The Town will continue to update the Stormwater webpage.
- The Town will continue to promote and offer HHW collection days for the public.

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

2.1 BMP Summary

ВМР	Status	Activities in current reporting period	Measurable goal	Department/ Person Responsible	Date completed/ projected	Location Posted	Additional details
2-1a Final Stormwater Management Plan publicly available	Complete	Notice of the draft SMP was posted in the Journal Inquirer. The final SMP is available on the Town Engineer's webpage and at select Town offices.	Comply with public notice requirements for the Stormwater Management Plan	Department of Public Works	SMP - Apr 6, 2017	Town Hall, Library, and website: <u>https://www.suffieldct.go</u> <u>v/departments/public-</u> <u>works/stormwater</u>	The Stormwater Management Plan will be reviewed periodically and updated, as necessary.
2-1b Comply with public notice requirements for Annual Reports (annually by 2/15)	Complete/ On-going	Notice of the draft Annual Report was posted on the Town's website and Facebook page. The draft Annual MS4 Report was uploaded to the Stormwater Management Program website and printed copies were available at select Town offices and were available for public review and comment for at least 30 days.	Make drafts available in print at town facilities 30 days in advance	Department of Public Works	Notice for 2020 Annual Report January 28, 2021 Draft 2020 Annual Report Available Feb 15, 2021	Town Hall and website: https://www.suffieldct.go v/departments/public- works/stormwater	Notice for the draft 2021 Annual Report was on the Town's website and news slider on the homepage and on the news webpage on January 28, 2022. 2021 Annual Report was available for review from 2/14/22 through 3/28/22.
2-2 Develop Stormwater Committee to oversee public involvement and participation program	Complete/ On-going	The Town has established a committee of individuals in each department that meet periodically.	Enact panel of staff and volunteers for SMP review	Department of Public Works	Mar 1, 2018		

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

- Continue to comply with the public notice and review requirements for Annual Reports.
- Continue to hold regular Stormwater Committee meetings to review SMP implementation progress.

3. ILLICIT DISCHARGE DETECTION AND ELIMINATION (Section 6(*a*)(3) and Appendix B / page 22)

3.1 BMP Summary

ВМР	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	A draft IDDE Program has been developed and is in the process of going through internal Town review.	Refer to BMP 3-1 of the SMP	Department of Public Works	Jul 1, 2022	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	Substantially Complete	The Town has completed its mapping of all the known outfalls in priority areas.	Finalize mapping in priority areas	Department of Public Works	Substantially Complete Jul 1, 2019 On-going	The Town will continue to update its mapping as new information is gathered.
3-3 Implement citizen reporting program (On-going)	Complete/ On-going	The Town has added a link to the Stormwater webpage for citizen reporting of stormwater concerns. Citizens can file reports via phone calls or email. The Town also has a weblink for requesting replacement trash carts.	Develop reporting program	Department of Public Works	Jul 1, 2021	
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	Complete	The Illicit Discharge & Connection Stormwater Ordinance was adopted at the 10/12/21 Town Meeting.	Town policies will be reviewed and updated	Planning and Zoning	Oct 12, 2021	
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	Complete	The Town uses excel and access spreadsheets, along with GIS, for IDDE tracking.	Keep a record of illicit discharge abatement	Department of Public Works	Jul 1, 2017 On-going	The Town will continue to look for ways of optimizing its IDDE tracking.
3-6 Address IDDE in areas with pollutants of concern	In Progress	The Town continues to identify structures that are not connected to the sanitary sewer system which are located near the MS4.	Identify areas of concern	Department of Public Works	Dec 31, 2021	

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

- Finalize written IDDE Program
- Post IDDE Program to the Stormwater Management Program webpage and include link in next year's Annual Report
- Continue updating the MS4 outfall and system mapping, as necessary
- Continue to maintain master IDDE tracking spreadsheet
- Investigate illicit discharges in areas with pollutants of concern

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

Location	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	Sampling data (if applicable)
1680 Mapleton Ave	9/17/2017 1 hour	No	100 gal	Valve on force main	Valve was fixed by company who put in low pressure system	None
Thrall by rt 159	12/6/2017 24 hours	No	Approx. 500 gal	Faulty controls	Faulty controls on private pump	None
454 Hickory St	11/9/2017 31 hours	No	Approx. 500 gal	Force main broken	Hole was pumped out of sewage. Contractor fixed force main.	None
1456 North St	3/18/2018 2 mins	No	50 gal	Lateral blocked	Lateral was blocked/homeowner to get line cleaned	None
Suffield WPCF	5/17/2018 24 hours	Yes	Unknown	UV failure	UV system will be checked for service	None
500 N Main St	12/12/2018 24 hours	No	<300 gal	Lateral Hit	Lateral hit by contractor was attached to new gravity line	None
1264 River Boulevard	6/12/2019 24 hours	No	Approx.5000 gal	Force main broken	Force main was repaired	None
28 Stoney Brook	3/12/2019 2 hours	No	50 gal	Pavement in manhole	Pavement was removed and line was cleaned	None
844 East Street South	12/14/2019 45 minutes	Yes	Less than 100,000 gal	Blow out in Clarifier	Aerators were shut down/Retraining with operators on alarms	None
490 Hickory St	5/2/2020 15 minutes	No	Approx. 100 gal	Contractor	Contractor hit sewer lateral curb box and fixed curb box	None
1250 East Street South	11/16/2020 30 minutes	Storm drain	Approx. 5 gal	foam from HOOD	Hood contacted DEEP and paid for clean up	None
844 East Street South	5/20/2021 Unknown	Yes	Unknown	Possible sampling	Reinforce to operators to follow proper sampling techniques	None
480 hickory Street	3/3/2021 5 minutes	No	< 50 gal	Grinder pump	Home owner were purchasing new grinder pump	None
844 East Street South	5/21/2021 Unknown	Yes	Undetermined	Sampling	Believe E-coli test has incorrect results from improper sampling	Yes
844 East Street South	9/2/2021 7 hours	Yes	Unknown	Heavy Rain	No solids went in river. We failed E-coli from heavy rain	Yes
222 Quail Run	10/11/2021 1.5 hours	No	Approx. 50 gal	Grease in pipe	Easement has been cleared and sewer line was cleaned	None

Actions taken to respond to and address the failures Dept. / Person Method used to track illicit Location and nature of Impacted waterbody or structure with failing septic watershed, if known responsible discharge reports systems Action initiated by septic installer. Permit for septic Septic Tank Replacement Log 3115 Mountain Road North Central District None tank replacement approved on 1/7/21. Health Department Septic Tank Replacement Log 1604 North Grand Street Action initiated by septic installer. Permit for septic North Central District None tank replacement approved on 11/3/21. Health Department Septic Tank Replacement Log 289 South Grand Street Action initiated by septic installer. Permit for septic North Central District None tank replacement approved on 9/8/21. Health Department Septic Tank Replacement Log 465 South Stone Street Action initiated by septic installer. Permit for septic None North Central District tank replacement approved on 3/1/21. Health Department Septic Tank Replacement Log 120 Barn Door Hill Road Action initiated by septic installer. Permit for septic None North Central District tank replacement approved on 1/26/21. Health Department Septic Tank Replacement Log 32 South Stone Street Action initiated by septic installer. Permit for septic None North Central District tank replacement approved on 5/12/21. Health Department Septic Tank Replacement Log 241 North Grand Street Action initiated by septic installer. Permit for septic None North Central District tank replacement approved on 6/11/21. Health Department Septic Tank Replacement Log 176 Griffin Road Action initiated by septic installer. Permit for septic North Central District None tank replacement approved on 6/4/21. Health Department Septic Tank Replacement Log 1945 Colson Street Action initiated by septic installer. Permit for septic North Central District None tank replacement approved on 6/14/21. Health Department Action initiated by septic installer. Permit for septic North Central District Septic Tank Replacement Log 240 Prospect Street None tank replacement approved on 9/8/21. Health Department Septic Tank Replacement Log Action initiated by septic installer. Permit for septic North Central District 709 Mountain Road None tank replacement approved on 10/5/21. Health Department Septic Tank Replacement Log 551 North Stone Street Action initiated by septic installer. Permit for septic North Central District None tank replacement approved on 11/12/21. Health Department Action initiated by septic installer. Permit for septic Septic Tank Replacement Log 1129 Mountain Road None North Central District tank replacement approved on 12/6/21. Health Department Leaching System 1103 Mapleton Avenue Action initiated by septic installer. Permit for leaching None North Central District system replacement approved on 8/12/21. Replacement Log Health Department Leaching System 3050 Mountain Road Action initiated by septic installer. Permit for leaching None North Central District system replacement approved on 3/18/21. Replacement Log Health Department Leaching System 574 Halladay Avenue Action initiated by septic installer. Permit for leaching None North Central District Replacement Log system replacement approved on 6/4/21. Health Department 445 Lake Road Action initiated by septic installer. Permit for leaching North Central District Leaching System None Replacement Log system replacement approved on 3/1/21. Health Department 418 Lake Road Action initiated by septic installer. Permit for leaching North Central District Leaching System None Replacement Log system replacement approved on 3/8/21. Health Department Leaching System 411 North Grand Street Action initiated by septic installer. Permit for leaching None North Central District Replacement Log system replacement approved on 6/7/21. Health Department

3.4 Provide a summary of actions taken to address septic failures using the table below.

Method used to track illicit discharge reports	Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known	Dept. / Person responsible
Leaching System Replacement Log	621 Halladay Avenue	Action initiated by septic installer. Permit for leaching system replacement approved on 4/7/21.	None	North Central District Health Department
Leaching System Replacement Log	22 Chestnut Circle	Action initiated by septic installer. Permit for leaching system replacement approved on 5/24/21.	None	North Central District Health Department
Leaching System Replacement Log	243 Colony Road	Action initiated by septic installer. Permit for leaching system replacement approved on 10/25/21.	None	North Central District Health Department
Leaching System Replacement Log	1079 Russell Avenue	Action initiated by septic installer. Permit for leaching system replacement approved on 6/24/21.	None	North Central District Health Department
Leaching System Replacement Log	1781 Mountain Road	Action initiated by septic installer. Permit for leaching system replacement approved on 8/11/21.	None	North Central District Health Department
Leaching System Replacement Log	1179 North Grand Street	Action initiated by septic installer. Permit for leaching system replacement approved on 7/6/21.	None	North Central District Health Department
Leaching System Replacement Log	470 Hale Road	Action initiated by septic installer. Permit for leaching system replacement approved on 8/9/21.	None	North Central District Health Department
Leaching System Replacement Log	14 Warnertown Road	Action initiated by septic installer. Permit for leaching system replacement approved on 7/27/21.	None	North Central District Health Department
Leaching System Replacement Log	271 North Grand Street	Action initiated by septic installer. Permit for leaching system replacement approved on 11/12/21.	None	North Central District Health Department
Leaching System Replacement Log	885 Ratley Road	Action initiated by septic installer. Permit for leaching system replacement approved on 12/28/21.	None	North Central District Health Department

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

• Currently, phone calls are received by the Department of Public Works from citizen's reporting possible illicit discharges.

• The Town will continue tracking illicit discharges using an excel table. DPW is responsible for tracking the information.

3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	267 (decreased from 298 in 2020 due to updated mapping)
Estimated or actual number of interconnections	12 (increased from 9 in 2020)
Outfall mapping complete	99%
Interconnection mapping complete	95% - still confirming ownership of some interconnections
System-wide mapping complete (detailed MS4 infrastructure)	95%
Outfall assessment and priority ranking	267 outfalls have initial rankings
Dry weather screening of all High and Low priority outfalls complete	256 of 267
Catchment investigations complete	8 investigations have been initiated and are substantially complete
Estimated percentage of MS4 catchment area investigated	Approximately 5%

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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).

• An MS4 and IDDE training program has been developed and will be implemented for presentation to all Town personnel in 2022 that may come in contact with stormwater or that may review applications and plans that impact stormwater quality. This training will be conducted on an annual basis, or as needed when new employees are added.

4. CONSTRUCTION SITE RUNOFF CONTROL (Section 6(a)(4) / page 25)

4.1 BMP Summary

ВМР	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)	In Progress	Barton & Loguidice, the Town's consultant, evaluated the Town's land use regulations in 2021 and made recommendations towards improving compliance with the MS4 General Permit.	Review and update regulations	Planning & Zoning	December 2022	In 2022, the Town will review B&L's comments and will look to update its regulations, as necessary, to improve compliance with MS4 general permit.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (On-going)	Complete/ On-going	Applications are received by WPCA or North Central Health District. Depending on the proposed project, the following will review the development plans: Planning and Zoning, Inland Wetlands, Engineering. Pre-application meetings are conducted with Town staff for larger projects.	Coordinate functions of departments involved	Department of Public Works	Jul 1, 2017 On-going	
4-3 Review site plans for stormwater quality concerns (On-going)	Complete/ On-going	The Town conducted the necessary site plan reviews during the reporting period.	Review all design plans for regulation consistency	Planning & Zoning	On-going	
4-4 Conduct site inspections (On-going)	Complete/ On-going	The Town conducted the necessary site inspections during the reporting period.	Continue inspection and checklist program	Planning & Zoning	On-going	
4-5 Implement procedure to allow public comment on site development (On-going)	Complete/ On-going	The Town follows all State public notice and hearing requirements. The Town follows up on all comments and complaints received.	Adhere to public comment and hearing requirements	Department of Public Works	Jul 1, 2017 On-going	

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (On-going)	Complete	Town Ordinance requires developers comply with State requirements for stormwater. The Town has updated application forms to provide notification including a check box in the conditions of approval.	Update applications to include determining if other authorization is required	Planning & Zoning	Jul 1, 2018	Will review current procedures and improve for compliance with MS4 general permit. Permit requirements will be added to the stormwater link. Town continues working with web master to update the stormwater link from website.

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

- Continue to update land use regulations to improve compliance with MS4 General Permit.
- Continue to review all design plans for regulation consistency.
- Continue the site inspection and checklist program.
- Continue to follow all State public notice and hearing requirements and follow up on all comments and complaints received.
- Add Construction Stormwater GP requirements to the stormwater website.

5. POST-CONSTRUCTION STORMWATER MANAGEMENT (Section 6(a)(5) / page 27)

5.1 BMP Summary

вмр	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	Barton & Loguidice, the Town's consultant, has reviewed current Town LID regulations and made recommendations towards improving compliance with the MS4 General Permit.	Review/Update regulations	Planning & Zoning	December, 2022	In 2022, the Town will review B&L's comments and will look to update its regulations, as necessary, to improve compliance with MS4 general permit.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	Complete/ On-going	The Town currently enforces runoff reduction requirements through the Subdivisions Regulations.	Review/Update regulations	Planning & Zoning	December, 2022 On-going	In 2022, the Town will review B&L's comments and will look to update its regulations, as necessary, to improve compliance with MS4 general permit.

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
5-3 Identify retention and detention ponds in priority areas (Due 7/1/20)	Substantially Complete	Known ponds under the control of the Town have been mapped.	Inventory Town Facilities	Public Works/ Engineering	Jul 1, 2019	
5-4 Implement long- term maintenance plan for stormwater basins and treatment structures (On-going)	Substantially Complete/ On-going	The Town maintains sedimentation structures on an as needed basis. Many of the basins in Town are the responsibility of the subdivision Home Owner's Association. A draft plan for routine inspections and maintenance for the Town's basins and structures is currently being reviewed by the Town. In 2021, B&L conducted stormwater structure inspections 31 of 33 stormwater treatment structures identified and started drafting reports and recommendations for maintenance. Based on the inspections conducted, B&L will provide the Town with a cost spreadsheet for budgeting annual maintenance.	Develop maintenance plan	Planning & Zoning	Jul 1, 2019 On-going	The Town intents to implement routine maintenance of all Town- owned stormwater basins beginning in 2022 (5 to 10 per year on a rotating basis).
5-5 DCIA mapping (Due 7/1/20)	Substantially Completed	The DCIA for the priority areas have been calculated using the available impervious cover layers.	Calculate DCIA	Planning & Zoning	Jan 31, 2020 On-going	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	To be Started	None	Prioritize area for retrofit	Planning & Zoning	On-going	

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

- Revise land use regulations to comply with the requirements of the MS4 General Permit.
- Continue to enforce runoff reduction requirements for development and redevelopment projects.
- Finalize and implement long-term maintenance plan for ponds and structures, including inspecting ponds/structures annually and removing sediment in excess of 50% design capacity.
- Continue updating the DCIA mapping, as necessary.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics		
Baseline (2012) Directly Connected Impervious Area (DCIA)	112.7	acres
DCIA disconnected (redevelopment plus retrofits)	Unknown	acres this year / acres total
Retrofits completed	Unknown	#
DCIA disconnected	TBD	% this year / % total since 2012
Estimated cost of retrofits	Unknown	\$
Stormwater treatment structures identified (including detention/retention ponds, oil water separators, hydrodynamic separators, green infrastructure, etc.)	34	# total

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

• To calculate the baseline DCIA for the Town of Suffield, Barton & Loguidice 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. Barton & Loguidice took 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

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
6-1 Develop/implement formal employee training program (On-going)	In Progress	A training program was developed. Due to safety restrictions resulting from the COVID-19 pandemic, a virtual training was provided to select personnel from the Public Works Department on May 27, 2021.	Implement training relevant to the department	DPW, Recreation and Parks, Planning & Zoning	On-going	
6-2 Implement MS4 property and operations maintenance (On-going)	Complete/ On-Going	Salt piles are stored under cover and on impervious surfaces. Town industrial stormwater discharges are monitored. Vehicle maintenance is performed undercover. Annual fall leaf collection program is conducted and disposal is provided at the landfill.	Evaluate and optimize maintenance procedures	Department of Public Works	Jul 1, 2018 On-going	The Town continues reviewing current practices and looking for areas for optimization. Town is reviewing a policy to maintain private stormwater features.

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
6-3 Implement coordination with interconnected MS4s	In Progress	Through the outfall identification process, the Town has identified several interconnections with the DOT.	Coordinate interconnects	Department of Public Works	On-going	There are no interconnections the Town knows of other than with the State DOT.
6-4 Develop/implement program to control other sources of pollutants to the MS4	Substantially Complete	The Town has identified industrial and commercial facilities not registered under the DEEP's Industrial Stormwater General Permit and Commercial General Permit. Educational brochures have been prepared and will be posted to the Town's website regarding the Industrial Stormwater General Permit and the Commercial Stormwater General Permit.	Identify Sources	Department of Public Works		The Town plans on posting the educational brochures to the Planning & Zoning webpage in 2022, notifying these facilities of their potential obligation to register.
6-5 Evaluate additional measures for discharges to impaired waters*	To be Started	None	Designate measures for impaired waters	Department of Public Works		
6-6 Track projects that disconnect DCIA (On-going)	In Progress	A table was created for tracking disconnected DCIA.	Document existing DCIA that is disconnected	Highway Department, Department of Public Works	Jul 1, 2018 On-going	The Town is starting tracking disconnected DCIA using the table it created.
6-7 Implement infrastructure repair/rehab program (Due 7/1/21)	In Progress	All road projects include new catch basin tops and new basins are installed, as necessary. As part of the outfall screening process, B&L identified several outfalls that required maintenance. The Town will work on addressing these issues in 2022 to the maximum extent practicable.	Prioritize/implement repairs	Department of Public Works	December 2022 On-going	The Town continues reviewing current practices and looking for areas for optimization.
6-8 Develop/implement plan to identify/ prioritize retrofit projects (Due 7/1/20)	In Progress	Town-owned sites with the greatest amount of impervious area have been identified as potential candidates for retrofit projects. In 2022, the Town will continue efforts to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.	Develop retrofit project plan	Department of Public Works	December 2022	

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed/ projected	Additional details
6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/22)	Not started	Once the Stormwater Retrofit Plan is finalized, the Town will start to implement projects to disconnected DCIA to the maximum extent practicable.	Implement retrofit projects	Engineering	December 2023	
6-10 Develop/ implement street sweeping program (On-going)	Complete/ On-going	All Town streets are swept annually, concentrating on high priority areas.	Sweep streets once annually	Department of Public Works	Jul 1, 2017 On-going	The Town continues reviewing current practices and looking for areas for optimization.
6-11 Develop/ implement catch basin cleaning program (On-going)	Complete/ On-going	Catch basins were inspected and cleaned out, as necessary, to the maximum extent practicable.	Maintain current program	Department of Public Works	Jul 1, 2017 On-going	The Town continues reviewing current practices and looking for areas for optimization.
6-12 Develop/ implement snow management practices (Due 7/1/18)	Complete/ On-going	Streets & municipal lots were plowed and treated, as necessary.	Continue snow management	Department of Public Works	Jul 1, 2018 On-going	The Town continues reviewing current practices and looking for areas for optimization.

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

- Conduct annual MS4 training events.
- Continue to review MS4 property and operations maintenance practices and look for areas for optimization.
- Notify industrial and commercial facilities of their requirements to register under the Industrial/Commercial Stormwater General Permits.
- Continue tracking disconnected DCIA using the table created.
- Continue efforts to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.
- Continue street sweeping, catch basin cleansing and snow management practices.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes – 5/27/21
Street sweeping	
Curb miles swept	~160 miles
Volume (or mass) of material collected	~1,000 tons
Catch basin cleaning	
Total catch basins in priority areas	2,223 mapped to date
Total catch basins in MS4	2,567 mapped to date
Catch basins inspected	100
Catch basins cleaned	100
Volume (or mass) of material removed from all catch basins	~100 cubic yards
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	Clearlane Salt
Total amount of each de-icing material applied	~2,200 tons
Type(s) of deicing equipment used	Trucks
Lane-miles treated	~160 miles
Snow disposal location	N/A
Staff training provided on application methods & equipment	Yes – as necessary
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	Unknown

6.4 Catch basin cleaning program

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

Catch basins will all be inspected, cleaned out, and the sumps will be measured. A second round of inspections and cleaning will be conducted and the amount of material removed will be recorded. A list will be generated and the catch basins with the most material present will be put on a more frequent cleaning schedule to ensure that the 50% design capacity for the sump is not exceeded.

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)

Town-owned sites with the greatest amount of impervious area have been identified as potential candidates for retrofit projects. In 2022, the Town will continue working with its consultant to identify and prioritize potential projects for the Retrofit Program 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 7/1/22)

Once the Stormwater Retrofit Plan is finalized, the Town will start to implement projects to disconnected DCIA 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. This data is available on the MS4 map viewer: <u>http://s.uconn.edu/ctms4map</u>.

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.

- B&L collected an additional three wet weather samples at impaired waterbodies in 2021. To date, all 14 known outfalls that directly discharge to impaired waterways in the Town of Suffield have been screened and sampled during wet weather events.
- 2) Based on the results of the sample analyses, the following six outfalls will require a follow-up investigation during a wet weather event and are potential sources of illicit discharges to impaired waterbodies: BOST4, CANA3, RIVV1, SGRA1, SGRA2 and BROK1. The discharge from BOST4, SGRA1, and SGRA2 had turbidity significantly higher than the water upstream; while CANA3, and RIVV1 were all discharging water with higher bacteria content than the established TMDL. BROK1 had elevated levels for turbidity and bacteria.
- 3) Based on the results of the samples collected, the top six (6) worst outfalls were selected and the annual sampling was started in the summer of 2021.

Mountain Brook was removed from the impaired waterbodies list based on the 2020 updated TMDLs for the waterbodies in Suffield. Based on the updated TMDLs, the following outfalls are no longer discharging to an impaired waterbody: COPP5, COPP6, STRA2 and PATR1. The total number of outfalls discharging to impaired waterbodies was decreased from 18 to 14. COPP6 was previously selected as a priority outfall for annual monitoring; this outfall will be replaced with outfall SGRA2 in 2022 for annual monitoring. COPP6 will be added to the top of the high priority list for future investigations.

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

2.1 Screening data collected under 2017 permit

Outfall ID	Latitude	Longitude	Sample Date	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	E. Coli (col/100mL)	Lab	Investigation Required
BOST2	41.957987	-72.63048	12/28/2018	5.97	2.93	n/a	Phoenix	NO
BOST4	41.96518248	-72.64229996	12/28/2018	15.4	3.54	n/a	Phoenix	YES
BOST9	41.964923	-72.641922	12/28/2018	6.44	2.47	n/a	Phoenix	NO
MARB1	41.991095	-72.655609	12/28/2018	3.20	4.14	n/a	Phoenix	NO
PATR1*	42.003	-72.7557	12/28/2018	n/a	n/a	10	Phoenix	NO
RIVE5	42.001396	-72.609251	12/28/2018	n/a	n/a	52	Phoenix	NO
RIVE6	42.001203	-72.609313	12/28/2018	n/a	n/a	< 10	Phoenix	NO
RIVE7	41.999542	-72.60928	12/28/2018	n/a	n/a	< 10	Phoenix	NO
CANA3	41.987189	-72.60556	11/23/2020	n/a	n/a	987	Phoenix	YES
COPP5*	42.003265	-72.752165	11/23/2020	n/a	n/a	41	Phoenix	NO
COPP6*	42.003138	-72.752169	11/23/2020	n/a	n/a	4350	Phoenix	YES
RIVV1	42.01600193	-72.60797299	11/23/2020	n/a	n/a	865	Phoenix	YES
SGRA1	41.96096544	-72.71029961	11/23/2020	10.13	1.9	n/a	Phoenix	YES
SGRA2	41.96079116	-72.71023947	11/23/2020	8.41	1.9	n/a	Phoenix	YES
STRA3*	42.00349	-72.75482	11/23/2020	n/a	n/a	20	Phoenix	NO
BROK1	41.988861	-72.655131	4/15/2021	23.4	0.67	1140	Phoenix	YES
CONS3	41.974663	-72.609056	4/15/2021	n/a	n/a	41	Phoenix	NO
LIME2	41.967996	-72.651951	4/15/2021	1.67	1.87	n/a	Phoenix	NO

Note: * These outfalls discharge to Mountain Brook, which was removed from the impaired waterbodies list in 2020

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	Parameter (Nitrogen, Phosphorus,	Results	Laboratory	Follow-up
	date	Bacteria, or Other pollutant of concern)		(if used)	required?
C-1	11/19/15	E. coli; Other (Turbidity)	350 MPN/100 mL; 14 NTU	Phoenix	No
C-1	11/24/14	E. coli; Other (Turbidity)	80 MPN/100 mL; 16 NTU	Phoenix	No

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

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment
BROK1	Dry weather IDDE investigation completed along all	Town to send letters to various homeowners potentially
	structures and piping of system. Wet weather	contributing to the illicit discharge discovered at time of
	Investigation to be initiated	sampling/investigation
RIVV1	Dry weather IDDE investigation completed along all	Town to send letters to various homeowners potentially
	structures and piping of system. Wet weather	contributing to the illicit discharge discovered at time of
	Investigation to be initiated	sampling/investigation

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

Once outfall screening 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 ID	Latitude	Longitude	Sample Date	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	E. Coli (col/100mL)	Lab
BOST4	41.96518248	-72.64229996	8/19/2021	5.16	>1,000	n/a	Phoenix
BROK1	41.988861	-72.655131	8/19/2021	36.5	48.7	19900	Phoenix
CANA3	41.987189	-72.60556	8/19/2021	n/a	n/a	7270	Phoenix
COPP6*	42.003138	-72.752169	8/19/2021	n/a	n/a	10500	Phoenix
RIVV1	42.01600193	-72.60797299	8/19/2021	n/a	n/a	>24200	Phoenix
SGRA1	41.96107	-72.71028	8/19/2021	14.3	11.8	n/a	Phoenix
SGRA2**	41.96079116	-72.71023947					

* This outfall discharges to Mountain Brook, which was removed from the impaired waterbodies list in 2020

 ** This outfall was added in 2021 to replace COPP6

Note:

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

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Outfall ID	Latitude	Longitude	Sample Date	Conductivity (umhos/cm)	Salinity (g/kg)	Temp (oC)	Ammonia (mg/L)	Chlorine (mg/L)	MBAs (mg/L)	E. Coli (col/100ml)	Lab	Investigation Required?
ARBO3	41.955354	-72.634405	3/12/2019	465	0.213	5.1	0.25	0.04	0.25	243	Phoenix	NO
ARBO4	41.955343	-72.63441	3/12/2019	564	0.254	5.4	0	0	0.25	122	Phoenix	NO
BARN2	42.00789625	-72.62645571	10/29/2019	440	0.213	14	0.25	0.1	0.25	63	Phoenix	NO
BENN1	41.945328	-72.629736	5/4/2020	628	0.299	18.1	0	0.03	1.5	< 10	Phoenix	NO
BOST1	41.96159	-72.636667	2/27/2019	2275	1.148	1.4	0.25	0.05	0.25	< 10	Phoenix	NO
BOST11	41.97266552	-72.64504083	10/29/2019	273	0.132	14.1	0.25	0.05	0.25	< 10	Phoenix	NO
BRID7	41.976769	-72.618546	4/29/2020	277	0.134	11.2	0	0	0.5	< 10	Phoenix	NO
BRID8	41.9790966	-72.6369845	10/29/2019	742	0.363	15.1	0.25	0	1	10	Phoenix	NO
CASS2	41.993336	-72.618139	3/20/2019	1471	0.716	10.8	0.25	0	0.5	< 10	Phoenix	NO
CHER1	42.02193209	-72.65812624	4/29/2020	570	0.36	13.15	0.5	0	0.25	< 10	Phoenix	NO
CHES1	42.023566	-72.752716	4/25/2019	105.9	0.05	14.7	0.25	0.15	0.25	201	Phoenix	NO
COPP3	42.011985	-72.745677	4/25/2019	511	0.29	17.33	0.25	0.07	< 0.25	< 10	Phoenix	NO
CROS1	41.993044	-72.622639	3/20/2019	669	0.327	11.4	0	0.02	0.25	31	Phoenix	NO
CROS2	41.993128	-72.623012	10/31/2018	240	0.14	15	0.25	2.2	0.75	97	Phoenix	NO
CROS3	41.99188	-72.620158	3/16/2021	1465	0.737	3.8	0	0.03	0.32	10	Phoenix	NO
DIAN1	41.96362	-72.64272	2/27/2019	342	0.164	4.1	0	0.01	3	< 10	Phoenix	NO
EDGE1	42.005296	-72.7575567	4/25/2019	42	0.02	16.88	0.25	0.03	0.25	189	Phoenix	NO
ELLI5	41.975094	-72.647496	3/12/2019	161	0.12	6.81	0	0.2	0.5	256	Phoenix	NO
FAIR1	42.013712	-72.638971	5/4/2020	554	0.252	13.4	0	0.14	0.25	20	Phoenix	NO
FARM4	42.004364	-72.636986	3/16/2021	361	0.151	4.2	0	0	0	< 10	Phoenix	NO
FIRE6	41.960565	-72.655531	3/16/2021	601	0.287	2.8	0.25	0.06	0.17	< 10	Phoenix	NO
GRAS1	42.009566	-72.617097	9/26/2019	470	0.23	20.7	0.25	0.89	0.5	256	Phoenix	NO
HAAE4	42.00844889	-72.63309327	4/29/2020	320.1	0.15	11.9	1	0.07	0.5	< 10	Phoenix	YES

Table 2.1a - Non-Impaired Waterbody Samples

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Table 2.1a - Non-Impaired Waterbody Samples

Outfall ID	Latitude	Longitude	Sample Date	Conductivity (umhos/cm)	Salinity (g/kg)	Temp (oC)	Ammonia (mg/L)	Chlorine (mg/L)	MBAs (mg/L)	E. Coli (col/100ml)	Lab	Investigation Required?
HALE6	41.96356224	-72.68764971	4/29/2020	541	0.242	16.7	1	0.06	0.5	< 10	Phoenix	YES
HARB1	42.015432	-72.612187	5/4/2020	557	0.252	16.8	0.5	0.02	0.25	< 10	Phoenix	YES
HARV1	41.94591972	-72.62564066	11/14/2019	1906	0.989	4.7	0.25	0.01	0.75	121	Phoenix	NO
HARV3	41.945319	-72.623051	3/16/2021	409	0.121	6.1	0.5	0.2	0.23	< 10	Phoenix	NO
HARV4	41.945324	-72.623032	3/16/2021	5919	3.193	5.2	0.25	0.05	0.59	< 10	Phoenix	NO
HARV5	41.945315	-72.623001	3/16/2021	1731	0.878	4.6	0.25	0	0.29	< 10	Phoenix	NO
HIGR1	42.009339	-72.623321	11/1/2018	547	0.27	16.88	0.25	0.04	0.25	10	Phoenix	NO
HYDR1	41.970942	-72.635745	3/12/2019	1335	0.98	9.16	0.25	0	0.25	85	Phoenix	NO
KENT1A	41.97304235	-72.64502367	3/12/2019	224	0.16	6.95	0.5	0.1	0.25	63	Phoenix	YES
KENT1B	41.97300876	-72.64501428	3/12/2019	339	0.22	11.99	0	0.1	0.5	52	Phoenix	NO
LAFO2	41.96463	-72.654329	4/29/2020	744	0.362	16	0	0.05	0.25	41	Phoenix	NO
MARB2	41.9888085	-72.6518466	10/29/2019	384	0.186	14.5	0.25	0.01	0.25	84	Phoenix	NO
MARK1	41.957911	-72.659309	3/12/2019	315	0.22	8.29	0	0	0.25	< 10	Phoenix	NO
MATH3	41.9590792	-72.6407345	8/28/2019	145	0.0674	24.3	0.25	0.11	0.5	201	Phoenix	NO
MATH4	41.96263	-72.64102	3/12/2019	2453	1.227	7.3	0	0	0.25	10	Phoenix	NO
MELR1	42.007733	-72.636442	5/4/2020	227	0.108	16.6	0.5	0.06	0.5	< 10	Phoenix	YES
NEWG1	41.99314381	-72.74032829	4/25/2019	143	0.08	19.32	0.25	0.01	0	< 10	Phoenix	NO
NEWG3	41.9971	-72.7415	4/25/2019	106	0.06	19.09	0.25	0.07	0	41	Phoenix	NO
OAK1	42.01244875	-72.7085291	5/4/2020	876	0.479	17.6	0	0.04	0.5	< 10	Phoenix	NO
OAK2	42.01245022	-72.7085169	5/4/2020	84.7	0.0391	18.8	0	0.04	0.5	98	Phoenix	NO
OLDF1	42.0023	-72.7475	4/25/2019	358	0.2	18.37	0.25	0.09	0	< 10	Phoenix	NO
OLDF2	42.0026	-72.7498	4/25/2019	869	0.49	18.4	0.25	0.05	0.25	20	Phoenix	NO
PAPE1	41.95799521	-72.62214201	4/29/2020	135	0.0646	11.1	0	0	0.25	< 10	Phoenix	NO
PATR1	42.003	-72.7557	4/25/2019	122	0.07	17.64	0.25	0	0	< 10	Phoenix	NO
PHEL3	42.001206	-72.736553	3/16/2021	198	0.094	4.7	0.25	0.01	0	< 10	Phoenix	NO
PHEL4	42.00122	-72.736537	3/16/2021	173	0.096	5.1	0.25	0.05	0	< 10	Phoenix	NO
PHEL5	41.999551	-72.736921	11/9/2018	154	0.12	4.14	0.25	0.04	0.25	< 10	Phoenix	NO
PLAN2	41.986859	-72.677583	11/14/2019	669	0.327	12.9	0.25	0.05	0.25	< 10	Phoenix	NO
POOL2	41.974118	-72.668698	5/4/2020	537	0.242	13.8	0.25	0.05	0.25	10	Phoenix	NO
PROS1	41.965938	-72.67175	4/29/2020	339	0.165	14.8	0	0.06	0.5	< 10	Phoenix	NO
PROS2	41.971463	-72.664163	11/13/2019	351	0.17	6.6	0.25	0.05	0.5	84	Phoenix	NO
QUAL1	41.992495	-72.625418	10/31/2018	149	0.15	14.9	0.25	0.1	0.25	203	Phoenix	NO
QUAL2	41.992648	-72.628453	10/31/2018	408	0.24	15.7	0	0.15	0.25	201	Phoenix	NO
RAWL1	41.995782	-72.615918	10/31/2018	373	0.22	16.45	0.50	0.04	1.5	62	Phoenix	YES
REDS3	41.95781281	-72.63455893	3/12/2019	504	0.37	7.37	0	0		< 10	Phoenix	NO
REMI4	41.978881	-72.665484	4/29/2020	1080	0.54	12.2	0.25	0.07	0.25	< 10	Phoenix	NO

Outfall ID	Latitude	Longitude	Sample Date	Conductivity (umhos/cm)	Salinity (g/kg)	Temp (oC)	Ammonia (mg/L)	Chlorine (mg/L)	MBAs (mg/L)	E. Coli (col/100ml)	Lab	Investigation Required?
RIVE1	42.011605	-72.610348	5/4/2020	476	0.213	18.3	0	0.1	0.25	63	Phoenix	NO
SETT2	41.96122	-72.63757	3/12/2019	1234	0.93	7.92	0	0.1	1.5	52	Phoenix	NO
SHAD2	42.009494	-72.6361	3/31/2021	693	0.339	13.1	0.25	0.04	0.12	30	Phoenix	NO
SILV1	42.014052	-72.63422	9/9/2019	861	0.415	20.1	0.25	0.02	0.25	10	Phoenix	NO
SILV3	42.015906	-72.629923	10/31/2018	733	0.36	16.4	0.25	0.07	0.5	388	Phoenix	NO
SOME1	42.00896579	-72.6344045	4/29/2020	380.2	0.18	13	0	0.08	0.75	10	Phoenix	NO
SUFF1	41.964568	-72.653421	11/7/2019	177	0.085	12.7	0	0.02	0.25	< 10	Phoenix	NO
SUFF4	41.959836	-72.649851	3/12/2019	3024	4.561	8.22	1	0.1	>3	< 10	Phoenix	YES
SUFF6	41.95835	-72.64856	3/12/2019	274	0.201	2.7	0	0.1	0.5	10	Phoenix	NO
SUFF8	41.953015	-72.644561	3/16/2021	294	0.143	1.8	0.25	0.01	0.3	< 10	Phoenix	NO
TAIN2	41.97562586	-72.68206265	4/29/2020	459.8	0.22	12.3	0	0.04	0.5	< 10	Phoenix	NO
TAIN6	41.96836331	-72.6901936	11/9/2018	479	0.34	8.11	0.06	0.08	3	20	Phoenix	NO
TAIN625*	41.96828718	-72.69067427	11/9/2018	403	0.28	8.83	0.25	0.05	0.25	< 10	Phoenix	NO
THIS1	41.998559	-72.658346	9/10/2019	911	0.437	19.4	0.25	0.12	0.75	20	Phoenix	NO
THOM1	41.997703	-72.611154	10/31/2018	204	0.12	15.17	0	0.06	0.25	457	Phoenix	NO
UCAR1	41.948936	-72.626877	5/4/2020	581	0.266	18.2	0.25	0.08	0.5	< 10	Phoenix	NO
WEND1	42.00740258	-72.65232346	9/26/2019	1169	0.58	20	0.25	0.01	0.25	< 10	Phoenix	NO
WEND3	42.003984	-72.656871	3/16/2021	289	0.143	3.8	0	0	0	< 10	Phoenix	NO
WHIT2	41.967465	-72.667245	3/31/2021	345	0.167	11	0.25	0	0.11	10	Phoenix	NO
WILL1	41.976447	-72.655189	3/12/2019	2031	1.51	9.41	0	0	0.5	< 10	Phoenix	NO
WIND1	42.02021	-72.630394	10/31/2018	851	0.42	12.58	0.25	0.03	0.25	< 10	Phoenix	NO
WOBD1	42.01753	-72.625494	11/1/2018	725	0.36	15.29	0.25	2.2	0.5	109	Phoenix	NO
WREN2	41.993538	-72.632012	3/16/2021	273	0.156	4.6	0	0.01	0	31	Phoenix	NO

Table 2.1a - Non-Impaired Waterbody Samples

Table 2.1b - Impaired Waterbody Samples

Outfall ID	Latitude	Longitude	Sample Date	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	E. Coli (col/100mL)	Lab	Investigation Required
RIVV1	42.01600193	-72.60797299	9/10/2019	n/a	n/a	10	Phoenix	NO
RIVE7	41.999542	-72.60928	9/17/2019	1.34	0.5	41	Phoenix	NO
LIME2	41.967996	-72.651951	3/16/2021	0	1.18	n/a	Phoenix	NO
BROK1	41.98942	-72.654483	3/31/2021	30.46	5.46	970	Phoenix	YES

2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

Outfall / Interconnection ID	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern	
It is anticipated that this will be initiated in 2021										

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.

Outfall ID	Receiving Water	System Vulnerability Factors
KENT1A	Stony Brook Basin	Sanitary and Storm Drain Infrastructure >40 years Old
RAWL1	Connecticut River Basin	
SUFF4	Stony Brook Basin	Sanitary and Storm Drain Infrastructure >40 years Old
SUSA3	Stony Brook Basin	Sanitary and Storm Drain Infrastructure >40 years Old
PATR1	Mountain Brook (Suffield) -01	
RIVV1	Connecticut River Basin	Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation
RIVE7	Connecticut River (Portland/Suffield)-03	Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation
BOST4	Stony Brook (Suffield) - 01	Sanitary and Storm Drain Infrastructure >40 years Old
RIVE5	Connecticut River (Portland/Suffield)-03	Sanitary and Storm Drain Infrastructure >40 years Old; Septic with Poor Soils or Water Table Separation

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.

- 2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
- 3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
- 4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
- 5. Common trench construction serving both storm and sanitary sewer alignments.
- 6. Crossings of storm and sanitary sewer alignments.
- 7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
- 8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
- 9. Areas formerly served by combined sewer systems.
- 10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
- 11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance).

12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

Pipe ID	Latitude	Longitude	Outfall ID	Sample Date	Evidence of illicit discharge	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	Ammonia (mg/L)	Chlorine (mg/L)	Surfactants (mg/L)	E.coli (col/100ml)	Lab
BROK1	41.988853	-72.65513		5/25/2021	Yes	956	19.5	0.25	0.28	0.16	4640	Phoenix
CB2506-CB0763	41.98968506	-72.65378571	BROK1	5/25/2021	Yes	13.3	19.5	0	0	0.27	100	Phoenix
Outlet107-Swale	41.98934	-72.65456	DRUKI	5/25/2021	Yes	3.26	19.5	0	0	0.11	<10	Phoenix
Outlet108-Swale	41.98941	-72.65448		5/25/2021	Yes	31.3	19.5	0	0	0.3	1480	Phoenix
CB1924-CB2141	41.99334717	-72.62347412		5/25/2021	Yes	n/a	n/a	0.25	0.07	0.25	10	Phoenix
MH047-MH046	41.99626923	-72.62297821		5/25/2021	Yes	n/a	n/a	0	0.1	0.24	10	Phoenix
CROS2	41.993119	-72.623011	CROS2	5/25/2021	Yes	n/a	n/a	0.25	0	0.25	n/a	Phoenix
MH142-MH-047	41.99626541	-72.62289429		6/22/2021	Yes	n/a	n/a	0.5	0.06	0.56	n/a	Phoenix
YD080-YD081	41.9967804	-72.62232208		7/22/2021	Yes	n/a	n/a	0	0.08	0.22	n/a	Phoenix
HALE6	41.963554	-72.687649	HALE6	6/18/2021	Yes	n/a	n/a	0	0	0.46	n/a	Phoenix
UNK2-CB1473	42.01402664	-72.61275482		6/18/2021	Yes	n/a	n/a	0	0.03	0.18	n/a	Phoenix
HARB1	42.015423	-72.612186	HARB1 -	6/18/2021	Yes	n/a	n/a	0	0.04	0.25	n/a	Phoenix
KENT1A	41.973034	-72.645023	KENT1A	6/18/2021	Yes	n/a	n/a	0	0.08	0.29	n/a	Phoenix
UNK2-CB2101	42.00777817	-72.63685608	MELR1	6/18/2021	Yes	n/a	n/a	0.25	0.04	0.28	n/a	Phoenix
MH033-MH051	41.99580002	-72.61686707		6/22/2021	Yes	n/a	n/a	0	0.01	0.22	n/a	Phoenix
UNK1-CB1886	41.99537659	-72.61829376		6/22/2021	Yes	n/a	n/a	0	0.11	0.23	n/a	Phoenix
RAWL1	41.995773	-72.615917		6/18/2021	Yes	n/a	n/a	0.25	0.11	0.26	n/a	Phoenix
SECO2	41.99498	-72.62065	RAWL1	6/18/2021	Yes	n/a	n/a	0.5	0	0.25	n/a	Phoenix
SECO1	41.99498	-72.62065	RAWLI	6/18/2021	Yes	n/a	n/a	0	0.02	0.11	n/a	Phoenix
CB1885-MH0142	41.99536514	-72.61820984		6/18/2021	Yes	n/a	n/a	0.25	0.07	0.43	n/a	Phoenix
UNK1-CB1894	41.99497223	-72.61962891		6/18/2021	Yes	n/a	n/a	0.25	0.04	0.24	n/a	Phoenix
CB1897-CB1894	41.99497223	-72.61962891		6/18/2021	Yes	n/a	n/a	0.25	0.06	0.53	n/a	Phoenix
CB1352-CB1353	42.01676941	-72.610466		5/25/2021	Yes	n/a	n/a	0	0.07	0.09	468	Phoenix
CB1354-CB1353	42.01615524	-72.61060333		5/25/2021	Yes	n/a	n/a	0	0.02	0.1	85	Phoenix
CB1348-RIVV1	42.01596069	-72.60876465		5/25/2021	Yes	n/a	n/a	0	0	0.1	228	Phoenix
CB1343-CB1344	42.01790619	-72.61096191	RIVV1 –	6/22/2021	Yes	n/a	n/a	0	0.01	0.17	52	Phoenix
CB1350-CB1352	42.01704407	-72.61047363		6/22/2021	Yes	n/a	n/a	0	0.03	0.23	10	Phoenix
CB1351-CB1352	42.01681519	-72.61056519		6/22/2021	Yes	n/a	n/a	0	0	0.18	<10	Phoenix

Town of Suffield 2021 Annual Report Permit Number GSM000015

Pipe ID	Latitude	Longitude	Outfall ID	Sample Date	Evidence of illicit discharge	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	Ammonia (mg/L)	Chlorine (mg/L)	Surfactants (mg/L)	E.coli (col/100ml)	Lab
Fipe ib	Latitude	Longitude	Outrain ID	Date	uischarge	(110)	(110)	(118/1)	(118/ L)	(1116/ 5/	(00) 100111	Lav
UNK1-CB1402	42.01630783	-72.62419128		5/25/2021	Yes	n/a	n/a	0	0.29	0.16	n/a	Phoenix
UNK3-CB1398	42.01720428	-72.6253891		5/25/2021	Yes	n/a	n/a	0	0.1	0.13	n/a	Phoenix
RP1-CB1398	42.01720428	-72.6253891	WOBD1	5/25/2021	Yes	n/a	n/a	0	0.03	0.04	n/a	Phoenix
UNK4-CB1398	42.01720428	-72.6253891		5/25/2021	Yes	n/a	n/a	0	0.1	0.12	n/a	Phoenix
WOBD1	42.018602	-72.625851		5/25/2021	Yes	n/a	n/a	0	0.03	0.13	n/a	Phoenix

3.3 Wet weather investigation outfall sampling data

	Outfall ID	Sample date	Ammonia	Chlorine	Surfactants			
It is anticipated that this will be initiated in 2021								

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

Discharge location (Outfall ID)	Source Location(s) (Address)	Discharge Description	Method of Discovery	Date of Discovery	Date of Elimination	Mitigation or Enforcement Action	Estimated Volume of Flow Removed
BROK1	60, 65, and 75 Brookside Dr and 20 Huckleberry Hollow	65 or 75 Brookside Dr look to be discharging exceeding levels of surfactants and contributing slightly to the high level of turbidity at the outfall. 60 Brookside or 20 Huckleberry Hollow look to contribute to the exceedance of chlorine. The high level of turbidity seems to come from the drainage swale discharging into the river as there's no riprap to slow the flow of the discharge.	Visually in field and field/lab testing	5/25/2021			
CROS2	15 3rd St and 24 and 34 4th St	15 3rd St, 24 and 34 4th St looks to be contributing to the exceeding levels of surfactants and chlorine. 24 and 34 4th St look to be contributing to the exceeding levels of ammonia	Visually in field and field/lab testing	6/22/2021 and 7/22/2021			
HALE6	845 and 955 Hale St	There looks to be some sort of underground lateral between 845 and 955 Hale St contributing to at least the high levels of surfactants. The rest of the system is dry which suggest a potential underground lateral between the two addresses	Visually in field and field/lab testing	6/18/2021			
HARB1	1338 Harbourside Dr	1338 Harbourside Dr is the only discharging pipe for the entire system which likely suggest they are the reason for the exceeding levels of chlorine, surfactants, and ammonia.	Visually in field and field/lab testing	6/18/2021			

Discharge location (Outfall ID)	Source Location(s) (Address)	Discharge Description	Method of Discovery	Date of Discovery	Date of Elimination	Mitigation or Enforcement Action	Estimated Volume of Flow Removed
MELR1	5 Halladay Ave E	There's only one pipe in this entire system from the direction of 5 Halladay Ave E that is discharging exceeding levels of surfactants, chlorine, and ammonia.	Visually in field and field/lab testing	6/18/2021			
RAWL1	54, 56, 73 and 83 2nd St, 55 and 78 1st St, and 5 Cassotta Ln	SECO2 outlet is discharging exceeding levels of surfactants and ammonia from 2nd St which could contribute to the elevated levels located at the outfall. A Pipe discharging from the area of 55 and 78 1st St is discharging exceeding levels of chlorine and surfactants with a small level of ammonia. 5 Cassotta Ln is discharging exceeding levels of chlorine and surfactants and a small level of ammonia.	Visually in field and field/lab testing	6/18/2021			
RIVV1	111, 140, and 150 Pleasantview Dr	Majority of the illicit discharge is likely coming from between 140 and 150 Pleasantview Dr as there exceeding levels of E. Coli and chlorine. 111 Pleasantview Dr has a slight exceedance of chlorine and a small level of surfactant detected. The reason for the exceedance of surfactants may come from 111 Pleasantview Dr as its close to the exceedance threshold and the start of the elevated levels.	Visually in field and field/lab testing	5/25/2021 and 6/22/2021			
WOBD1	8 and 31 Woodbridge Dr	8 Woodbridge Dr seems to be the only discharging pipe on this line before the retention pond inlet becomes involved. This pipe had an exceedance of chlorine and is close to exceeding surfactants levels. There are two lateral pipes by 31 Woodbridge Dr that may be contributing to the exceedance of chlorine located at the outfall.	Visually in field and field/lab testing	5/25/2021			

Part IV: Certification

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

Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name: Colin Moll First Selectman	Print name: T.J. Therriault, EIT, CDT Barton & Loguidice, LLC
Signature / Date: du Mule 3/29/2022	Signature / Date: T.S. Therrow 3/28/2022
Email:	Email:
CMoll@SuffieldCT.gov	tjt@bartonandloguidice.com

Attachment Part III.1. Priority Ranking of Catchment Data

Town of Suffield 2021 Annual MS4 Report Permit No. GSM000015

Catchment ID	Receiving Water	Wet Sampling Results Indicate Likely Illicit Discharge? ¹	Dry Screening Results Indicate Likely Illicit Discharge? ^{1a}	Discharging to Area of Concern to Public Health? ²	Frequency of Past Discharge Complaints	Receiving Water Quality ³		Age of Development/ Infrastructure ⁵	Historic Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Sample Score	Total Score	Priority Ranking
	Information Source		Catchment inspections and sample results	GIS Maps	Municipal Staff	Impaired Waters List	Land Use/GIS Maps, Aerial Photography	Information, Visual	Municipal Staff, GIS Maps	Land Use, Municipal Staff	GIS and Stormwater system Maps	Other			
	Scoring Criteria (Yes = Problem)	extrapolated for	mined using an ormula based on esults	Yes = 3 No = 0	Frequent = 3 Occasional = 2	Poor = 3 Fair = 2	High = 3 Medium = 2	High = 3 Medium = 2 Low = 1	Yes = 3 No = 0	Yes = 3 No = 0	Yes = 3 No = 0	TBD			
BROK1 CROS2	Muddy Brook (Suffield)-01 Connecticut River Basin	7 0	11 9	0	None = 0	Good = 0 3 0	Low = 1 1 2	LOW = 1 3 3			0		18 9	25 14	High High
WOBD1 SUFF4 GRAS1	Threemile Brook Basin/Fourmile Brook Stony Brook Basin Connecticut River Basin/Deep Brook	0 0 0	8 5 5	0 0 0		0 0 0	1 1 1	2 3 2			0 0 0		8 5 5	11 9 8	High High Low
RAWL1 RIVV1	Connecticut River Basin/Rawlins Brook Connecticut River (Portland/Suffield)-03	0 1	4	0		0	2	1 3			3 0		4	10 12	High High
TAIN6 THIS1 COPP6	Devine Brook Muddy Brook Basin Mountain Brook (Suffield)-01	0 0 3	4 4 0	0 0 0		0 0 3	1 1 1	3 2 3			0 0 0		4 4 3	8 7 10	Low Low High
FAIR1 HAAE4 HALE6	Threemile Brook Basin Fourmile Brook Stony Brook Basin	0 0 0	3 3 3	0 0 0		0 0 0	1 1 1	3 3 3			3 0 0		3 3 3	10 7 7	High High High
HARB1 KENT1A MELR1 BENN1	Connecticut River Basin Stony Brook Basin Threemile Brook Basin Connecticut River Basin	0 0 0 0	3 3 3 3	0 0 0		0 0 0	1 1 1 3	2 3 1 3			0 0 0		3 3 3 3	6 7 5 9	High High High Low
CHES1 DIAN1 ELLI5	Great Brook Basin Stony Brook Basin Stony Brook Basin Connecticut River Basin	0 0 0 0	3 3 3 3	0 0 0		0 0 0	1 1 1 1 3	3 3 1 3			0 0 0 0		3 3 3 3	7 7 5 9	Low Low Low
HARV3 HARV4 QUAL2	Connecticut River Basin Connecticut River Basin	0	3	0		0 0 0	3 3 2	3 3			0 0		3 3 3	9	Low Low Low
SETT2 SOME1 THOM1	Stony Brook Basin Fourmile Brook Connecticut River Basin	0 0 0	3 3 3	0 0 0		0 0 0	1 1 3	1 3 3			0 0 0		3 3 3	5 7 9	Low Low Low
	Stony Brook (Suffield) - 01 Connecticut River (Portland/Suffield)-03 Stony Brook (Suffield) - 03 Stony Brook Basin	2 2 2 0	0 0 0 2	0 3 0 0		2 3 2 0	1 1 1 1	3 3 3 1			0 0 0 0		2 2 2 2	8 12 8 4	High High High Low
BARN2 BOST1 BOST11	Connecticut River Basin/Deep Brook Stony Brook Basin Stony Brook Basin	0 0 0	2 2 2 2	0 0 0 0		0 0 0	1 1 1	3 3 3			0 0 0		2 2 2	6 6 6	Low Low Low
BRID8 CHER1 COPP3 CROS1	Connecticut River Basin Muddy Brook Basin Mountain Brook Connecticut River Basin	0 0 0 0	2 2 2 2 2	0 0 0 0		0 0 0 0	1 1 1 1	3 1 3 3			0 0 0 0		2 2 2 2 2	6 4 6 6	Low Low Low Low
CROS3 EDGE1 HARV1 HIGR1	Connecticut River Basin Salmon Brook Basin Connecticut River Basin Connecticut River Basin	0 0 0 0	2 2 2 2 2	0 0 0		0 0 0	1 1 3 1	3 1 3 2			0 0 0		2 2 2 2	6 4 8 5	Low Low Low Low
KENT1B LAFO2 MATH3	Stony Brook Basin Little Brook Stony Brook Basin	0 0 0	2 2 2 2 2	0 0 0		0 0 0	1 1 1 1	3 1 3			0 0 0 0		2 2 2 2	6 4 6	Low Low Low
OAK1 OAK2 OLDF2 PHEL5	Muddy Brook Basin Muddy Brook Basin Salmon Brook Basin Salmon Brook Basin	0 0 0 0	2 2 2 2 2	0 0 0 0		0 0 0 0	1 1 1 1	3 3 2 3			0 0 0 0		2 2 2 2	6 6 5 6	Low Low Low Low
	Salmon Brook Basin Muddy Brook Basin/Kents Pond Stony Brook Basin	0 0 0 0	2 2 2	0 0 0		0 0 0	1 2 1	3 2 3 3			0 0 0		2 2 2	6 6 6	Low Low Low
PROS1 PROS2 QUAL1 REMI4	Stony Brook Basin Stony Brook Connecticut River Basin Muddy Brook Basin	0	2 2 2 2	0 0 0		0 0 0	1 1 2 1	3 3 3 3			0 0 0		2 2 2 2	6 7 6	Low Low Low
RIVE1 RIVE7	Connecticut River Basin Connecticut River (Portland/Suffield)-03	0 0	2	0		0	1	3 3			0		2	6 9	Low Low
SILV1 SILV3 SUFF1 SUFF6	Threemile Brook Basin/Fourmile Brook Threemile Brook Basin/Fourmile Brook Little Brook Stony Brook Basin	0 0 0	2 2 2 2	0 0 0		0 0 0	1 2 1 1	2 2 3 3			0 0 0		2 2 2 2	5 6 6	Low Low Low
TAIN625* UCAR1 WIND1	Stony Brook Basin Connecticut River Basin Threemile Brook Basin	0 0 0	2 2 2 2	0 0 0		0 0 0	1 3 1	3 3 1			0 0 0		2 2 2 2	6 8 4	Low Low Low
	Stony Brook (Suffield) - 03 Stony Brook Basin Connecticut River Basin Rawlins Brook	1 0 0 0	0 1 1 1	0 0 0 0		2 0 0 0	1 1 1 1	3 1 1 1			0 0 0 0		1 1 1 1	7 3 3 3 3	High Low Low Low
FIRE6 HARV5 HYDR1 LIME2	Little Brook Connecticut River Basin Stony Brook Basin Stony Brook (Suffield) - 01	0 0 0 0	1 1 1 1	0 0 0		0 0 0 2	3 3 2 2	3 3 1 1			0 0 0		1 1 1 1	7 7 4 6	Low Low Low Low
MARB2 MARK1	Muddy Brook Basin Stony Brook Basin/Little Brook	0	1	0		0	1 3	3			0		1	5	Low Low
MATH4 NEWG3 OLDF1	Stony Brook Basin Salmon Brook Basin Salmon Brook Basin	0 0 0	1 1 1	0 0 0		0 0 0	1 1 1	3 3 2			0 0 0		1 1 1	5 5 4	Low Low Low
PAPE1 PHEL4 SHAD2 SUFF8	Stony Brook Basin Salmon Brook Basin Threemile Brook Basin Stony Brook Basin	0 0 0 0	1 1 1 1	0 0 0		0 0 0	1 1 1 1	3 3 2 3			0 0 0		1 1 1	5 5 4	Low Low Low
WEND1	Muddy Brook Basin Stony Brook Basin Salmon Brook Basin	0 0 0 0	1 1 1 0	0 0 0		0 0 0	1 1 1 1	3 2 2			0 0 0 0		1 1 1 0	5 5 4 3	Low Low Low Low
ARBO2 BARN1 BARR2	Stony Brook Basin Connecticut River Basin/Deep Brook Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0	1 1 1	1 3 3			0 0 0		0 0 0	2 4 4	Low Low Low
BLOS1 BLOS2 BOST10	Onion Brook Onion Brook Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0	1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
BOST12 BOST2	Stony Brook Basin Stony Brook (Suffield) - 01	0 0	0	0		0	1 1 1	3 3			0 0		0	4	Low Low
	Stony Brook Basin Stony Brook Basin Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0	1 1 1	1 3 3			0 0 0		0 0 0	2 4 4	Low Low Low
BOST9 BRAN1 BRID1 BRID5	Stony Brook (Suffield) - 01 Stony Brook Basin Connecticut River Basin Connecticut River Basin	0 0 0 0	0 0 0 0	0 0 0 0		2 0 0 0	1 1 1 1	3 3 1 3			0 0 0 0		0 0 0 0	6 4 2 4	Low Low Low Low
BRID6 BROA1 CANA1	Connecticut River Basin Great Brook Basin Connecticut River Basin	0 0 0	0 0 0	0 0 0		0 0 0	1 1 1 1	3 2 3			0 0 0		0 0 0	4 3 4	Low Low Low
CANA2 CANA4 CANA5	Connecticut River Basin Connecticut River Basin Connecticut River Basin	0 0 0	0 0 0	0 0 0		0 0 0	1 1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
CANA6 CATH2 CEDA1 CHES2	Connecticut River Basin Connecticut River Basin Threemile Brook Basin/Fourmile Brook Great Brook Basin	0 0 0 0	0 0 0 0	0 0 0 0		0 0 0	1 1 1 1	3 3 1 3			0 0 0		0 0 0 0	4 4 2 4	Low Low Low Low
CLAY1 CLAY2 CLAY3	Threemile Brook Basin Threemile Brook Basin Threemile Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0	1 1 1 1	1 1 1 1			0 0 0 0		0 0 0	2 2 2 2	Low Low Low
COLD2 COLS2 CONS3 COPP1	Threemile Brook Basin Muddy Brook Basin Connecticut River (Portland/Suffield)-03 Salmon Brook Basin	0 0 0 0	0 0 0 0	0 0 0 0		0 0 0 0	1 2 2 1	2 3 2 3			0 0 0 0		0 0 0 0	3 5 4 4	Low Low Low Low
COPP2 COPP5 DDCB_COLS1	Salmon Brook Basin Mountain Brook (Suffield)-01 Connecticut River Basin	0 0 0	0 0 0	0 0 0		0 3 0	1 1 2 2	3 3 2			0 0 0 0		0 0 0	4 7 4	Low Low Low
DDCB_COLS2 DDCB_RIVE2 DDCB-PHEL1	Connecticut River Basin Connecticut River Basin Salmon Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0	2 1 1	2 3 3			0 0		0 0 0	4 4 4 4	Low Low Low
DDCB-PHEL2 DEVI1 DEVI2	Salmon Brook Basin Connecticut River Basin Connecticut River Basin	0 0 0	0 0 0	0 0 0		0 0 0	1 1 2	3 2 2			0 0 0		0 0 0	4 3 4	Low Low Low
EDGE2 ELLI3 FAIR2	Salmon Brook Basin Stony Brook Basin Threemile Brook Basin	0 0 0	0 0 0	0		0 0 0	1 1 1	1 1 3			0		0	2 2 4	Low Low Low
FARM2	Threemile Brook Basin Threemile Brook Basin Threemile Brook Basin	0 0 0	0 0 0	0 0 0		0	2 2	3 1 1			0 0 0		0	4 3 3	Low Low

Attachment Part III.1. Priority Ranking of Catchment Data

Catchment ID	Receiving Water	Wet Sampling Results Indicate Likely Illicit Discharge? ¹		Discharging to Area of Concern to Public Health? ²	I FRAMIANCV OT	Receiving Water Quality ³	Gene	sity of crating es ⁴	Age of Development/ Infrastructure ⁵	Historic Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Sample Score	Total Score	Priority Ranking
	Information Source	Catchment inspections and sample results Score is deterr		GIS Maps Yes = 3	Municipal Staff Frequent = 3	Impaired Waters List Poor = 3	Maps Photo	Jse/GIS , Aerial graphy h = 3	Information,	Municipal Staff, GIS Maps Yes = 3	Land Use, Municipal Staff Yes = 3	GIS and Stormwater system Maps Yes = 3	Other			
	Scoring Criteria (Yes = Problem) Threemile Brook Basin	extrapolated fo the re 0	rmula based on esults 0	No = 0 0	Occasional = 2 None = 0		Medi Lov	um = 2 v = 1 2	Medium = 2 Low = 1 1	No = 0	No = 0	No = 0 0	TBD	0	3	Low
GRAS5 HAAE1	Deep Brook Deep Brook Fourmile Brook	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	2 2 3			0 0 0		0 0 0	3 3 4	Low Low Low
HALA2 HALE1	Muddy Brook Basin Philo Brook Stony Brook Basin/Stony Brook	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
HALE2 HALE3	Stony Brook Basin Spencer Brook Spencer Brook Stony Brook Basin	0 0 0	0 0 0 0	0 0 0		0 0 0		1 1 1	3 3 3 3			0 0 0		0 0 0	4 4 4 4	Low Low Low Low
HALE5 HALE7	Stony Brook Basin Stony Brook Basin Stony Brook Basin Stony Brook Basin	0 0 0	0 0 0 0	0 0 0		0 0 0		1 1 1 1	3 3 3 3			0 0 0		0 0 0	4 4 4 4 4 4	Low Low Low
HALE9 HARV2	Stony Brook Basin Connecticut River Basin Stony Brook Basin	0 0 0	0	0 0 0		0 0 0		1 3 1	3 3 1			0 0 0		0 0 0	4 6 2	Low Low Low
HILL1	Fourmile Brook Muddy Brook Basin/Muddy Brook Muddy Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
HILL4	Muddy Brook Basin Muddy Brook Basin Muddy Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
JACQ1	Stony Brook Basin Stony Brook Basin Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		2 2 1	2 2 3			0 0 0		0 0 0	4 4 4	Low Low Low
KENT2 KENT3	Stony Brook Basin Stony Brook Basin Stony Brook Basin Great Brook Basin	0 0 0	0 0 0 0	0 0 0 0		0 0 0		1 1 1 1	2 3 3 3			0 0 0		0 0 0	3 4 4 4	Low Low Low Low
	Connecticut River Basin Connecticut River Basin Threemile Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1 1	1 1 3			0 0 0		0 0 0	2 2 4	Low Low Low
MAGN1 MAGN2 MAPL1	Muddy Brook Basin Muddy Brook Basin Threemile Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	2 2 3			0 0 0		0 0 0	3 3 4	Low Low Low
MAPL3 MAPL4 MAPL5	Connecticut River Basin Threemile Brook Basin Connecticut River Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
MARB1	Threemile Brook Basin Connecticut River Basin Muddy Brook (Suffield)-01	0 0 0	0 0 0	0 0 0		0 0 3		1 1 1	3 3 3			0 0 0		0 0 0	4 4 7	Low Low Low
MATH2	Stony Brook Basin Stony Brook Basin Stony Brook Basin Connecticut River Basin	0 0 0	0 0 0 0	0 0 0		0 0 0		1 1 1 1	3 3 3 2			0 0 0		0 0 0	4 4 4 3	Low Low Low Low
NEWG1 NEWG2	Salmon Brook Basin Salmon Brook Basin Muddy Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1 1	3 3 3			0 0 0		0 0 0	4 4 4 4	Low Low Low
NSTO3	Stony Brook Basin Stony Brook Basin Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
NSTO6 NSTO7	Stony Brook Basin Muddy Brook Basin Muddy Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
PHEL1 PHEL10	Mountain Brook (Suffield) -01 Salmon Brook Basin Salmon Brook Basin Salmon Brook Basin	0 0 0 0	0 0 0 0	0 0 0		3 0 0 0		1 1 1 1	2 3 3 3			0 0 0		0 0 0	6 4 4	Low Low Low Low
PHEL12	Salmon Brook Basin Salmon Brook Basin Salmon Brook Basin Salmon Brook Basin	0 0 0	0 0 0 0	0 0 0		0 0 0		1 1 1 1	3 3 3 3			0 0 0		0 0 0	4 4 4 4	Low Low Low
PHEL3 PHEL7	Salmon Brook Basin Salmon Brook Basin Salmon Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
POND1	Salmon Brook Basin Muddy Brook Basin Great Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 2 3			0 0 0		0 0 0	4 3 4	Low Low Low
POOL1 PROS3	Great Brook Basin Stony Brook Basin Stony Brook	0 0 0	0 0 0	0 0 0		0 0 0		1 2 1	3 3 3			0 0 0		0 0 0	4 5 4	Low Low Low
RATL2 RATL3	Rattlesnake Swamp Rattlesnake Brook Rattlesnake Brook Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1 1	3 3 3 3			0 0 0		0 0 0	4 4 4 4 4 4	Low Low Low Low
REDS2 REDS3	Stony Brook Basin Stony Brook Basin Stony Brook Basin Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1 1	1 1 1 1			0 0 0		0 0 0	2 2 2 2	Low Low Low
REDS7 REMI1	Stony Brook Basin Stony Brook Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	1 3 3			0 0 0		0 0 0	2 4 4	Low Low Low
REMI5 REMI6	Muddy Brook Basin Muddy Brook Basin Muddy Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
RIVE2 RIVE3	Muddy Brook Basin Connecticut River Basin Connecticut River Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
RIVE6	Connecticut River Basin Connecticut River (Portland/Suffield)-03 Connecticut River (Portland/Suffield)-03 Connecticut River Basin/Deep Brook	0 0 0	0 0 0	0 0 0		0 3 3 0		1 1 1 1	3 3 3 3			0 0 0		0 0 0	4 7 7 4	Low Low Low Low
RUSS1 RUSS2	Muddy Brook Basin Clay Brook Philo Brook	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1 1	3 3 3 3			0 0 0		0 0 0	4 4 4 4	Low Low Low
SILV4	Threemile Brook Basin/Fourmile Brook Threemile Brook Basin Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		2 2 1	2 2 3			0 0 0		0 0 0	4 4 4	Low Low Low
SPRU1 SPRU2	Connecticut River Basin Muddy Brook Basin Muddy Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		2 1 1	2 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
STRA2 STRA3	Muddy Brook Basin Salmon Brook Basin Mountain Brook (Suffield)-01	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 1 1			0 0 0		0 0 0	4 2 2	Low Low Low
SUFF5	Little Brook Stony Brook Basin Stony Brook Basin Stony Brook Basin	0 0 0 0	0 0 0 0	0 0 0 0		0 0 0 0		1 1 1 1	3 3 3 3			0 0 0 0		0 0 0 0	4 4 4 4	Low Low Low Low
SUNS1	South Pond Stony Brook Stony Brook Basin	0 0 0	0 0 0	0 3 0 0		0 0 0		1 1 1	3 3 3 3			0 0 0		0 0 0	4 7 4 4	Low Low Low
TAIN3 TAIN4 TAIN7	Stony Brook Basin Devine Brook Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
TAIN8 THRA1 THRA2	Stony Brook Basin Connecticut River Basin Connecticut River Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3			0 0 0		0 0 0	4 4 4	Low Low Low
THRA4 THRA5 THRA6 THRA7	Connecticut River Basin Connecticut River Basin Connecticut River Basin Connecticut River Basin	0 0 0	0 0 0 0	0 0 0		0 0 0		1 1 1	3 3 3 3			0 0 0		0 0 0	4 4 4 4	Low Low Low Low
TYLE1 WAIN2	Stony Brook Basin Stony Brook Basin Muddy Brook Basin	0 0 0 0	0 0 0 0	0 0 0 0		0 0 0 0		- 1 1 1	3 1 2 3			0 0 0 0		0 0 0 0	4 2 3 4	Low Low Low Low
WEND2	Muddy Brook Basin Muddy Brook Basin Muddy Brook Basin Salmon Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 3 3			0 0 0		0 0 0	4 4 4 4	Low Low Low
WHEE2 WHIT2	Salmon Brook Basin Salmon Brook Basin Stony Brook Basin	0 0 0	0 0 0	0 0 0		0 0 0		1 1 1	3 3 1 2			0 0 0		0 0 0	4 2 3	Low Low Low

Attachment Part III.1. Priority Ranking of Catchment Data

Catchment ID	Receiving Water	Wet Sampling Results Indicate Likely Illicit Discharge? ¹		Area of Concern	Frequency of Past Discharge Complaints		A	Age of Development/ Infrastructure ⁵	Historic Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Sample Score	Total Score	Priority Ranking
	Information Source	-	Catchment inspections and sample results	GIS Maps	Municipal Staff	Impaired Waters List	Land Use/GIS Maps, Aerial Photography	Land Use Information, Visual Observation	Municipal Staff, GIS Maps	Land Use, Municipal Staff	GIS and Stormwater system Maps				
	Scoring Criteria (Yes = Problem)	extrapolated for	mined using an ormula based on esults	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			
WIST6	Stony Brook Basin	0	0	0		0	1	1			0		0	2	Low
WIST7	Stony Brook Basin	0	0	0		0	1	1			0		0	2	Low
WOOD1	Salmon Brook Basin	0	0	0		0	2	3			0		0	5	Low
WOOD2	Salmon Brook Basin	0	0	0		0	2	3			0		0	5	Low
WREN2	Connecticut River Basin	0	0	0		0	2	2			0		0	4	Low
WREN3	Connecticut River Basin	0	0	0		0	2	2			0		0	4	Low
WREN4	Connecticut River Basin	0	0	0		0	2	2			0		0	4	Low

Impaired Waterbodies

Scoring Criteria:

If there's no waterbody feature identified the receiving body source will be the name of the subregional basin the outfall resides in

¹ 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, or

Turbidity at outfall is more than 5 NTU greater than the in-stream sample.

^{1a} 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 \geq 0.5 mg/L, surfactants \geq 0.25 mg/L, and detectable levels of chlorine

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

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

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

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

Good = No water quality impairments

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

⁵ Age of development and infrastructure:

High = Industrial areas greater than 40 years old and areas where the sanitary sewer system is more than 40 years old

Medium = Developments 20-40 years old

Low = Developments less than 20 years old

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

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

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

