

MS4 General Permit
Town of Bethel 2023 Annual Report
 Existing MS4 Permittee
 Permit Number GSM 000096
 [January 1, 2023 – December 31, 2023]

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

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

BMP	Status	Activities in current reporting period (if needed, more space available after this table)	Measurable goal	Department/ Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	Ongoing	Develop and distribute handouts and publications. Materials available in the Municipal Center and given to builders and residents when taking out permits with the Building Department, Planning & Zoning and Public Works. Update Town website as necessary with materials/links	Educate the general public and increase their awareness regarding the effects of polluted stormwater – Update and maintain the Town’s website to include educational materials	Public Works	Ongoing	Initially Completed December 31, 2017	Links Available on Website: - 2004 CT Stormwater Quality Manual - CT NEMO MS4 Guide - NPDES Stormwater Program - Paint Recycling - Car Washing - River Smart CT - HRRRA Recycling Links
1-2 Address education/ outreach for pollutants of concern*	Ongoing	Target residents and businesses with appropriate informational materials. Posted education materials/links on the Town’s website addressing impaired waters and stormwater pollutants of concern. Update Town website as necessary with materials/links	Educate residents and business owners on potential stormwater impacts of improper waste disposal and illegal discharges	Public Works	Ongoing	Initially Completed December 31, 2017	

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

Continue to have information available for interested students and residents in the Municipal Center. Implement a plan for annual Public Awareness Day where interested parties can visit DPW Garage and Transfer Station to learn about water education, recycling and stormwater. Due to Covid-19 sources were available on the town’s website and by request during the time the office and Municipal Center were closed to the public.

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.
Brochures distributed at Town Hall & Town Meetings	Developers, home owners (approx. 500)	Impact of impervious cover, Septic systems & Fertilizer use	Bacteria, nitrogen and phosphorus	Public Works
Household Hazardous Waste Collection Days Collection Days (Spring & Fall) Information provided on Town’s Website	All Town Residents	Proper Disposal of Hazardous Waste	N/A	Housatonic Resources Recovery Authority (HRRRA) / Public Works
Fall Leaf Pickup	All Town Residents	Leaf Disposal Program	Nutrients	Public Works Department

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	Due	Date completed or projected completion date	Additional details
2-1 Final Stormwater Management Plan publically available	Complete	Draft of the Stormwater Management Plan (SMP) was made available to the public.	Make a draft available on the town's website and have hard copies available in the DPW office.	Public Works	July 1, 2017	July 1, 2017	
	Complete	Final SMP was made available to the public via website and hard copies.	Make the final SMP available on the town's website and hard copies in Municipal Center.	Public Works	Feb 15, 2018	Feb 15, 2018	
2-2 Comply with public notice requirements for Annual Reports	Complete /Ongoing	Public notice was posted via website and hard copies were made available in the DPW office. Make a draft and final of the 2023 Annual report. Publish on the town's website for Public comment and submit final to DEEP.	Completed and submitted the 2022 Annual Report. Make available via website and hardcopies in the DPW office.	Public Works	Feb 15, 2020	Ongoing	
2-3 Establish stormwater committee	Ongoing	Met to discuss any issues that have occurred in different departments regarding stormwater etc.	Provide forum to coordinate SWMP implementation across depts. and commissions	Inland Wetlands, Public Works, Planning & Zoning and Building and Department	July 1, 2018	Ongoing	

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

Continue to hold stormwater committee meetings regularly to review SMP implementation progress.
 Get ideas about how to implement the new information to the website and how to better public involvement.
 Meet with West COG and HVA to see what resources are available to increase our public outreach.
 Provide public notice of annual report.
 Start recording meeting minutes and agendas for internal record.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan to public	Yes	July 1, 2017	Copies currently located in Public Works Department – Available on Town Website https://www.bethel-ct.gov/filestorage/1190/136/394/DEEP - MS4 - Stormwater Plan - Final - 2017.pdf
Availability of Annual Report announced to public	Yes	April 19, 2024	Copies currently located in Public Works Department – Available on Town Website https://bethel-ct.gov/stormwater-docs

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	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	In Progress	Written IDDE program was established using the CT IDDE program template.	Develop written plan of IDDE program	Public Works, Planning & Zoning and Inland Wetlands	Jul 1, 2018	Anticipate completing by end of 2024	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	In Progress	Worked with West COG to create mapping in GIS format. GIS mapping of outfalls is underway.	Develop map that shows the locations	Public Works	Jul 1, 2019	Anticipated 2024	
3-3 Implement citizen reporting program	Complete	Developed phone reporting system to report resident and employee complaints and concerns.	Create excel formatted reporting to better see problem areas.	Public Works	Not Specified	July 1, 2017	Recording of any/all calls regarding complaints and concerns about IDDE is Ongoing Status.

3-3 Implement citizen reporting program (Continued)	In Progress/ Complete	Develop a phone/GIS based reporting program to report resident and employee complaints and concerns.	Develop and implement a GIS based reporting program to better see problem areas.	Public Works	Not Specified	July 1, 2022	Currently have a phone based reporting program
3-4 Establish legal authority to prohibit illicit discharges	Complete	Worked with commission to finalize proper procedure for reporting of illicit discharge to proper authorities.	Make sure that all parties are involved in any illicit discharge problems and make sure staff knows the proper procedure should a problem arise.	Public Works, Planning & Zoning and Inlands Wetlands	Jul 1, 2018	July 1, 2019	
	In Progress	Create Illicit Discharge Ordinance.	Have an approved and finalized Ordinance regarding Illicit Discharge.	Public Works, Planning & Zoning and Inlands Wetlands	Not Specified	Anticipated 2024	
3-5 Develop record keeping system for IDDE tracking	Complete	Currently we keep track of all IDDE via Excel and resident phone calls and complaints.	Track IDDE via phone and Excel. Implement GIS based reporting once developed.	Public Works	Jul 1, 2017	Jul 1, 2017	Converting the information to a new program that is better for asset mgmt.
	In Progress	We are looking into developing a GIS based reporting program to better see problem areas.	Develop reporting system using asset management software, GIS database, or related system.	Public Works	Not Specified	In Progress	
3-6 Address IDDE in areas with pollutants of concern	Ongoing	Continue to gather information and collect data and sampling in areas to better see where IDDE areas exist.	When a specific area is determined we will map and access area to eliminate illicit discharge	Public Works	Not Specified	Ongoing	
3-7 Consolidate IDDE tracking spreadsheets	Complete	Compile all the IDDE tracking requirements into one spreadsheet.	Have an entire log of problem areas and their pollutants	Public Works	Not Specified	Jul 1, 2022	

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

Implement the written IDDE program.
 Continue stormwater mapping of drainage, structures and piping network.
 Continue to track IDDE through tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process.
 The written program will be posted to the website; will update the written IDDE program as needed throughout the permit term.
 Maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process

3.3 List of citizen reports of suspected illicit discharges received during this reporting period.

	Location / suspected source	Response taken
Nothing to Report		

3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring January 2023 through end of reporting period using the following table.

Location (Lat long/ street crossing /address and receiving water)	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume discharged	Known or suspected cause / Responsible party	Corrective measures planned and completed (include dates)	Sampling data (if applicable)
6 Far Horizons Dr.	01/02/2023	NO	<1G	YES	CLEANED	N/A
3 Brookview Ct.	01/23/2023	NO	<1G	YES	REMOVED	N/A
11 Stony Hill	01/27/2023	NO	N/A	YES	REMOVED	N/A
150 Putnam Park	04/14/2023	NO	N/A	YES	REMOVED	N/A
32 Maple Ave Ext.	05/19/2023	NO	+/-1G	YES	N/A	N/A
65 Nashville Rr. Ext.	06/29/2023	NO	12G	YES	CLEANED	N/A
81 Linda Lane	07/24/2023	NO	2G	YES	CLEANED	N/A
1 Baily Blvd.	07/31/2023	NO	10G	YES	N/A	N/A
3A Wolfpits Rd	08/05/2023	NO	N/A	YES	N/A	N/A
Route 6 West	08/14/2023	NO	UNK.	YES	CLEANED	N/A
170 Old Hawleyville	10/16/2023	NO	<1G	YES	CLEANED	N/A
6 Skyedge Lane	10/20/2023	NO	UNK.	YES	CLEANED	N/A
3 Taylor Ave.	11/17/2023	NO	.69 LBS	YES	N/A	N/A
66 Putnam Park Rd.	12/20/2023	NO	50G	YES	CLEANED	N/A

24 Fox Den Rd.	12/23/2023	NO	UNK.	YES	CLEANED	N/A
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3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.

The Town of Bethel tracks the discharge to the source. We have not gotten any complaints from citizens or have been made aware of any major discharge. But we have a method in place of storm drain investigations, drainage investigations, on-site investigations and septic system investigations. We would track and report to DEEP and other parties. Public Works is responsible for investigating any reports received and tracking this information.

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

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted water body or watershed, if known
No Septic Failures in 2023 Reported		

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	36
Estimated or actual number of interconnections	Working on Field Verification
Outfall mapping complete	~50%
Interconnection mapping complete	N/A
System-wide mapping complete (detailed MS4 infrastructure)	~65%
Outfall assessment and priority ranking	N/A
Dry weather screening of all High and Low priority outfalls complete	~5%
Catchment investigations complete	~5-10%
Estimated percentage of MS4 catchment area investigated	~5-10%

3.8 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).

Handouts on IDDE are reviewed once or twice a year with employees.

Employees are expected to input any reports into the Excel tracking log by putting points on the map of problem areas.

Continue to work with WestCOG and community services to get as much information and knowledge of stormwater in our area to put into our GIS.

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	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	Complete	Incorporates LID regulations and BMP's in P & Z regulations	Planning & Zoning will incorporate and expand LID regulations and BMPs in their regulations.	Planning & Zoning	Jul 1, 2019	July 1, 2022	
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete/ Ongoing	Updated existing paperwork Continued tracking system	Revise and update existing paperwork to promote a good tracking system of communication.	Planning & Zoning	Jul 1, 2017	Jul 1, 2017	
4-3 Review site plans for stormwater quality concerns	Complete/ Ongoing	Reviewed site plans per DEEP regulations	Engineer will continue to review site plans per DEEP regulations.	Engineering	Jul 1, 2017	Jul 1, 2017	
4-4 Conduct site inspections	Complete/ Ongoing	Conducted site inspections per DEEP regulations	Engineer will continue to conduct site inspections per DEEP regulations.	Engineering	Jul 1, 2017	Jul 1, 2017	

4-5 Implement procedure to allow public comment on site development	Complete/ Ongoing	Continued to promote existing public comment.	Promote existing public comment.	Land Use	Jul 1, 2017	Jul 1, 2017	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Complete/ Ongoing	Handouts and documents given to developers and is now part of application process	The Land Use Department will make this part of the site plan application.	Land Use	Jul 1, 2017	Jul 1, 2017	
4-7 Develop stormwater compliance checklist	In Progress	Developing checklist to provide developers on stormwater mgmt compliance requirements	Standardize plan review	Planning & Zoning	Not Specified	Anticipate completing by end of 2024	

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

Integrate a stormwater compliance checklist into the review process once completed.
 Continue to review site plans and conduct construction site inspections.
 Continue to document the number (per permit year) of construction plan submittals, construction startups, and construction inspections and report in the annual report.

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	Due	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In Progress		To become more explicit through regulations and examples of good LID development.	Land Use	Jul 1, 2021	July 1 2022	

5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In Progress/ On Going	Engineer and P&Z and Inland & Wetlands worked together to try and eliminate noncompliance in post construction matters	Work with an Engineer to develop a plan of action for noncompliance. Review and update, as necessary, current regulations to identify, reduce, or eliminate existing regulatory barriers to implementation of LID and runoff reduction practices.	Land Use/ Engineering	Jul 1, 2019	Ongoing	
5-3 Identify retention and detention ponds in priority areas	In Progress	WestCOG and HVA is helping develop mapping process of all components of stormwater in Bethel	Have a list for tracking and be able to locate all retention and detention ponds in priority areas on GIS	Public Works	Jul 1, 2019	Anticipate completing by end of 2024	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	In Progress	Management staff is developing maintenance plan and working to get something budgeted	Create and implement a long-term plan for basins and treatment structures. Update as necessary	Public Works	Jul 1, 2019	Anticipate completing by end of 2024	
5-5 DCIA mapping	Complete	WestCOG and Town of Bethel worked to get mapping together by investigating sources of information to develop mapping.	Completed mapping with guidance from UConn CLEAR and WestCOG	Public Works	Jul 1, 2020	July 1, 2022	
5-6 Address post-construction issues in areas with pollutants of concern	In Progress		Engineer will give all information over to individual parties so proper departments can track findings to report.	Engineering	Not Specified	Ongoing	

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

Review and update existing land use regulations and policies with the assistance of a consultant.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	586 Acres, WestCOG
DCIA disconnected (redevelopment plus retrofits)	5.09 Acres
Retrofits completed	9
DCIA disconnected	4.88 Acres
Estimated cost of retrofits	N/A
Detention or retention ponds identified	N/A

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

Working with WestCOG we have identified The Town of Bethel's baseline DCIA

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

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	Complete/ Ongoing	Employee training through the Town and CIRMA	Continue to increase town staff awareness of the effects of polluted stormwater on the environment and the necessity of a municipal stormwater management program.	Public Works	Jul 1, 2017	July 1, 2018	

6-2 Implement MS4 property and operations maintenance	Completed/ Ongoing	Using MSDS thru OSHA working on getting Master List of materials and learning procedures of DPW and P&R Evaluate and modify, as necessary, municipal vehicle and equipment parking, fueling, and maintenance practices.	Work with Building Maintenance and Parks & Recreation to make sure they are following guidelines. Provide list of products and materials being used annually. Add proper signage where necessary	Public Works	Jul 1, 2018	July 1, 2018	
6-3 Implement coordination with interconnected MS4s	Ongoing	Attend local meetings to connect with towns and cities within the area to brainstorm and hear solutions to similar issues and situations	Continue BMP – Speaking with surrounding towns.	Public Works	Not Specified	Ongoing	
6-4 Develop/implement program to control other sources of pollutants to the MS4	Ongoing	Bethel continues to control sources of pollution to the MS4 through water quality monitoring, illicit discharge reporting, public outreach to residents, commercial, industrial facility owners.	Use GIS to track information from the coordinating departments	Public Works	Not specified	Ongoing	
6-5 Evaluate additional measures for discharges to impaired waters*	Ongoing	Have met with various staff members and commission to make sure all are prepared for tracking and reporting	Make sure the Town pays attention to what illicit discharges are happening in the Town and make sure that if there is an issue it is handled and reported.	Public Works	Not Specified	Ongoing	
6-6 Track projects that disconnect DCIA	Ongoing	Working on mapping and tracking of the locations Eliminate curbing where possible	Attempt to reduce percentage of DCIA. Annually track total acreage of DCIA that is disconnected as a result of redevelopment or retrofits	Public Works	Jul 1, 2017	Jul 1, 2017	
6-7 Implement infrastructure repair/rehab program	In Progress	Repair, rehabilitate, or retrofit MS4 infrastructure	Make sure that all town owned buildings, materials and infrastructure is up to date and maintained.	Public Works	Jul 1, 2021	Ongoing	

6-8 Develop/implement plan to identify/prioritize retrofit projects	Complete/ Ongoing	Starting to track on GIS of infrastructure issues	Continue to track problem areas and make lists of any and all infrastructure issues and track them on GIS. Develop retrofit plan and list of priority sites	Public Works	Jul 1, 2020	July 1, 2020	
6-9 Implement retrofit projects to disconnect 2% of DCIA	Ongoing	Demolition of old Police Station and Parking lot	Disconnect 2% of DCIA with retrofit projects	Public Works	Jul 1, 2022	Ongoing, Currently at 1.4%	
6-10 Develop/implement street sweeping program	Complete/ Ongoing	Swept streets after winter storm season Multiple sweeps for high priority area (downtown)	Continue with our annual program and go out to streets several times a year as necessary. Continue to inspect and sweep all Town owned streets and parking lots	Public Works	Jul 1, 2017	Jul 1, 2017	
6-11 Develop/implement catch basin cleaning program	Complete/ Ongoing	Attempting to have catch basin cleanings added to the yearly town budget and schedule to facilitate townwide catch basin cleaning turnover every 3-5 years.	Complete townwide catch basin cleaning turnover every 3-5 years.	Public Works	Jul 1, 2020	July 1, 2020	
6-12 Develop/implement snow management practices	Complete/ Ongoing	Working with staff to better the process DPW mixes product before use – tests performed	Continue using sand/salt mixture and not using any sort of liquid deicer. Implement practices for deicing material management and snow and ice control	Public Works	Jul 1, 2018	July 1, 2018	

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

Add IDDE topics to employee training.
Continue to conduct employee training.
Continue sweeping, cleaning and inspecting catch basins. Following any issues with infrastructure closely.
Inspect catch basins when they are cleaned and document the inspection findings.
Continue to document pertinent maintenance operations.
Maintain a list of complaints received regarding road and highway maintenance concerns.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes April 15, 2021
Street sweeping	
Curb miles swept	220 miles
Volume (or mass) of material collected	1200 Yards
Catch basin cleaning	
Total catch basins in priority areas	35
Total catch basins in MS4	2600
Catch basins inspected	244
Catch basins cleaned	244
Volume (or mass) of material removed from all catch basins	80 t.
Volume removed from catch basins to impaired waters (if known)	N/A
Snow management	
Type(s) of deicing material used	Sand & Salt
Total amount of each deicing material applied	2500 t. & 625 t.
Type(s) of deicing equipment used	Sander – Plow
Lane-miles treated	86 Center Lane miles

Snow disposal location	N/A
Staff training provided on application methods & equipment	Yes April 15, 2019 November 15, 2019
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

Vacuum truck, cleaning, inspection and report deficiencies. Cleaning schedule based on emergencies and high priority areas.

Public Works has inspected and cleaned 244 catch basins in 2023. The total number of catch basins cleaned from 2017 through 2023 is 1854.

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.

Nothing to Report

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.

Nothing to Report

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.

Nothing to Report

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

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

Nitrogen/ Phosphorus Bacteria Mercury Other Pollutant of Concern

1.2 Describe program status.

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.
Nothing to Report

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

2.1 Screening data

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year's screening data showing a cumulative list of outfall screening data.

Outfall ID	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory	Follow-up required? *
Stony Hill FH (Commercial)	10/20/2023	East Swamp Brook – Elevated Phosphorus	P - 1.24 mg/L N - 1.88 mg/L E. coli – 30.0 col/100ml	ACT Lab	Y- We are seeing elevated levels of Phosphorus. Most likely due to concentration effects of the drought and increased populations of warm blooded animals.
Willow Commercial)	10/20/2023	Limekiln Brook – Elevated Nitrogen	P - .19 mg/L N – 3.07 mg/L E. coli – 408 col/100ml	ACT Lab	Y – We are seeing elevated levels Nitrogen most likely due to concentration effects of the drought
Dittmar (Residential)	10/20/2023	Limekiln Brook – Elevated Phosphorus, Bacteria	P - .47 mg/L N - 1.29 mg/L E. coli – > 24196 col/100ml	ACT Lab	Y – We are seeing elevated levels of E. Coli & Phosphorus. Most likely due to concentration effects of the drought and increased populations of warm blooded animals.
Oak Ridge (Residential)	10/20/2023	East Swamp Brook – Elevated Nitrogen, Phosphorus, Bacteria	P - .33 mg/L N – 3.05 mg/L E. coli – 4160 col/100ml	ACT Lab	Y – We are seeing elevated levels of E. Coli, Nitrogen & Phosphorus. Most likely due to concentration effects of the drought and increased populations of warm blooded animals.

Trowbridge (Industrial)	10/20/2023	Limekiln Brook – Elevated Phosphorus	P - .60 mg/L N - 1.67 mg/L E. coli – 63.0 col/100ml	ACT Lab	Y – We are seeing elevated levels of Phosphorus in many storm waters this year. Most likely due to concentration effects of the drought.
Bethel HC (Industrial)	10/20/2023	East Swamp Brook – Results below threshold	P - .22 mg/L N - 2.09 mg/L E. coli – 51.0 col/100ml	ACT Lab	N/A

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? *
Nothing to Report					

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

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

3. Follow-up investigations (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
Stony Hill FH (Commercial)	In Progress	In Progress
Dittmar (Residential)	In Progress	In Progress
Oak Ridge (Residential)	In Progress	In Progress
Trowbridge (Industrial)	In Progress	In Progress
Willow Commercial)	In Progress	In Progress

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	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)
Nothing to Report				

Part III: Additional IDDE Program Data

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

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

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank
Nothing to 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 / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken
Nothing to Report										

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
Please see Attached Sample Data – Stormwater Monitoring Report Form(s)									

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. An example is provided below.

Outfall ID	Receiving Water	System Vulnerability Factors
Nothing to Report		

Where SVFs are:

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

3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants
Nothing to Report					

3.3 Wet weather investigation outfall sampling data

Outfall ID	Sample date	Ammonia	Chlorine	Surfactants
Please see Attached Sample Data – Stormwater Monitoring Report Form(s)				

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
Nothing to Report							

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

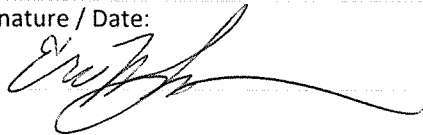
Print name:

Eric Swenson, Public Works Director

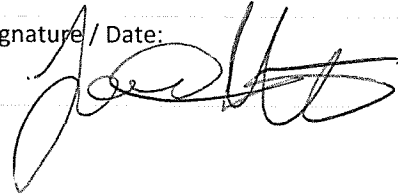
Print name:

Jonathon Matz, Project Manager

Signature / Date:

 4/19/24

Signature / Date:

 04/19/2024