



CITY OF HARTFORD

2024 ANNUAL REPORT

[January 1, 2024 – December 31, 2024]

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

Permit Number GSM-000062

Executive Summary

This document presents the Stormwater Management Plan (SWMP) Annual Report for the City of Hartford. The SWMP Annual Report was developed to provide a summary of the City's progress towards implementing the best management practices (BMPs) for the six Minimum Control Measures outlined in the SWMP to meet the requirements of the Connecticut Department of Energy & Environmental Protection (DEEP) General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit) to the maximum extent practicable from January 1, 2024 to December 31, 2024.

The Annual Report includes a written discussion of the status of compliance with the MS4 General Permit, all monitoring data collected and analyzed, and all other information collected and analyzed, and follows the UCONN CLEAR MS4 Annual Report template.

The Annual Report was available for public review for 30 days at the Public Works Department Administrative Offices and on-line at: <https://www.hartfordct.gov/Government/Departments/Public-Works/Engineering-Division#section-4>

**MS4 General Permit
City of Hartford 2023 Annual Report**

Permit Number GSM-00062

January 1, 2024 – December 31, 2024

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This report documents the City of Hartford’s efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2024 to December 31, 2024.

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

BMP	Activities in current reporting period	Sources Used (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable Goal	Department / Person Responsible	Additional details
1-1 Implement public education and outreach	Maintained the DPW Engineering Stormwater Management webpage that describes the City’s stormwater management efforts, tips on preventative measures for residents, and additional resource links.		On-line	Residents	Post educational information on social media and update stormwater webpage annually	DPW/Frank Dellaripa P.E.	https://www.hartfordct.gov/Government/Departments/Public-Works/Engineering-Division#section-4 One video promoted picking up litter the other was “Park your butts here!” promoting using the cigarette ash receptacles at bus shelters and parks
	Hartford 311 posted about street sweeping for cleaner streets and collection of leaves, yard waste and Christmas trees		Social media	Residents			
	Love Hartford Anti-Litter videos on Hartford 311		Social media	Residents			

1-1 Implement public education and outreach (Continued)	Hartford Green Infrastructure Handbook		On-line	Developers, Residents			https://circa.uconn.edu/wp-content/uploads/sites/1618/2018/09/Green-Infrastructure-Handbook.pdf
1-2 Address education/outreach for pollutants of concern	<p>The DPW website includes a link to DEEP’s Sewage Right-to-Know website concerning combined sewer overflows and sanitary sewer overflows. It also has a link to the MDC Backwater Valve Program</p> <p>The DPW Engineering Stormwater Management webpage includes information on the impacts of pet waste, fertilizer, inflow and infiltration</p> <p>Hartford’s dog registration website has a Dog Owner’s Guide that includes information about the requirement of picking up dog waste and that a violation of this ordinance will result in a \$50 fine.</p> <p>MDC website and brochure provides information on their Sewer Backup Prevention Program, Backwater Valve Program, and Private Property Inflow Disconnect Program</p>		On-line	Residents	One post to social media or info on website addressing Stormwater Pollutants of Concern	DPW/Frank Dellaripa P.E.	https://www.hartfordct.gov/Government/Departments/Public-Works
			On-line	Residents			https://www.hartfordct.gov/Government/Departments/Public-Works/Engineering-Division#section-4
			On-line and social media	Residents			Hartford 311 promoted Dog Owners Guide requesting “Please Do Not Throw the waste bags down the sewer drains” https://www.hartfordct.gov/Government/Town-and-City-Clerk/Town-Clerk-Services/Dog-Registration
			On-line	Residents			https://themdc.org/utility-services/backwater-valve-program/ https://themdc.org/app/uploads/2020/01/Sewer-BackupPrevention-Final-2.pdf

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

The DPW will be updating its dedicated stormwater management page under the Engineering Division to include stormwater sensitive “mowing & blowing” techniques to reduce catch basin clogs and the amount of nitrogen and phosphorus infiltrating the stormwater stream. Hartford 311 will post about stormwater sensitive “mowing & blowing” techniques at the start of growing season and proper leaf management at the start of leaf collection. Hartford 311 will also post about properly cleaning up pet waste.

2. Public Involvement/Participation (Section 6(a)(2) / page 21)

2.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (include the start date for anything that is 'in progress')	Location Posted	Additional details
2-1 Final Stormwater Management Plan publicly available and comply with public notice requirements for Annual Reports (annually by 2/15)	Complete	The City's SWMP and annual report are publicly available at the DPW Administrative Offices and on-line	All required notices posted by deadline	DPW/Frank Dellaripa P.E.	Notice of public availability posted 1/27/25, the annual report posted by 2/19/25	DPW Admin Offices 50 Jennings Road, Hartford / https://www.hartfordct.gov/Government/Departments/Public-Works/Engineering-Division#section-4	
2-2 Stormwater Committee Meetings (annually by 12/31)	Complete	A stormwater Committee Meetings were held 1/24/25 and 2/13/25	One meeting held annually	DPW/Frank Dellaripa P.E.	Ongoing		Meeting moved from December to January to better coincide with annual reporting
2-3 Sponsor community participation event (annually by 12/31)	Complete	MDC Annual Household Hazardous Waste Collection Event held 10/26/24 with 137 participants Love Hartford Week clean-ups at various parks and streets 10/12/24 to 10/18/24 Friends of Goodwin Park Cleanup held 9/14/24	One event held annually	DPW/Frank Dellaripa P.E.	4/15/23		https://themdc.org/environment-health-safety/household-hazardous-waste-collection/

<p>2-3 Sponsor community participation event (Continued)</p>		<p>Dog signs distributed to residents during National Night Out held 8/6/24</p> <p>Blue Hills Civic Association Annual Community Clean Up 8/3/24</p> <p>Frog Hollow Clean Up Competition held 6/29/24</p> <p>Hartford Cleans Up - KNOX supplies trash bags, litter picks, rakes, and brooms to empower hundreds of volunteers cleaning up Hartford neighborhoods</p> <p>Adopt Your Block – Clean Up Trailer is an anti-litter tool lending library. Neighbors get together, pick a location, set a date and the City brings the tools.</p>					<p>Sign states: "Be a good neighbor, please clean up after your dog"</p> <p>https://www.house.dems.ct.gov/hall/blue-hills-civic-association-hosts-annual-community-clean-day</p> <p>https://knoxhartford.org/volunteer/</p> <p>https://www.hartfordct.gov/Government/Departments/MayorArulampalam/Community-Engagement/CE-Programs/Trailer</p>
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<p>2-3 Sponsor community participation event (Continued)</p>		<p>Hartford Neighborhood Ambassador Program provides formerly incarcerated residents part-time employment to do litter removal, weed removal, cleanup of high-traffic areas, graffiti identification and other projects on 12 commercial corridors</p> <p>Love Your Block is a mini-grant program that supports residents by funding projects focused on combating litter, activating vacant lots and strengthening neighborhood pride</p>					<p>https://www.hartford.gov/Government/Departments/MayorLukeBronin/Mayor-News/NEIGHBORHOOD-AMBASSADOR</p> <p>https://www.hartford.gov/Government/Departments/MayorArulampalam/Community-Engagement/CE-Programs/LoveHartford/LYB-Hartford</p>
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2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.

The City plans to continue to hold Stormwater Committee Meetings to discuss implementation of the Stormwater Management Plan. Future meetings will include the Department of Development Services, the Office of Sustainability, the Office of Community Engagement, Health and Human Services, the Corporation Counsel, and the MDC. The MDC Household Hazardous Waste Collection Event is scheduled for October 25, 2025.

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

3.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
3-1 Develop written IDDE program (Due 7/1/19)	Complete	Written IDDE Program approved by the Hartford Court of Common Council on 12/11/23.	Develop written plan of IDDE program	DPW/Frank Dellaripa P.E.	12/11/23	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	In Progress	The City is working with the MDC to identify MS4 systems vs. combined systems and ownership.	Outfall and Interconnections inventory and map completed	DPW/Frank Dellaripa P.E.	MDC and the City entered a memorandum of understanding on 1/14/2025. A two-year goal was established to investigate and determine ownership of the stormwater infrastructure to develop the required mapping.	A draft separated stormwater system map has been developed by the MDC. The DPW developed a draft map of outfalls and systems owned by the City.
3-3 Implement citizen reporting program (Ongoing)	Ongoing	The "Hartford 311" call center provides a secure way to report, track, and resolve problems or issues residents may have	Formal written program developed	DPW/Frank Dellaripa P.E.	311 System used since prior to 2017 Anticipate improving the program by 12/31/25	
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	In Progress	Sections 2N, 2O, and 5 of the MDC Sewer Ordinances address illicit discharges to MDC storm drains in Hartford; Currently under the City of Hartford Municipal Code, Section 17-4 prohibits the discharge of pollutants, contaminants, etc. with fines and penalties for violations but does not specifically address or define illicit discharges.	Ordinance passed by City Council	DPW/Frank Dellaripa P.E.	Anticipate submitting to Court of Common Council by 12/31/25	
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	Ongoing	The Hartford 311 Call Center tracks all reports of illicit discharges	IDDE tracking spreadsheet developed by deadline	DPW/Frank Dellaripa P.E.	IDDE tracking developed by 7/1/17	SSO Inventory is maintained by The MDC and is included in the MDC 2024 Annual Report attached as an appendix.

3-6 Address IDDE in areas with pollutants of concern	Ongoing	No reports of septic system failures in 2024 (See Section 3.4 below)	Areas with failing septic systems identified by the deadline; % of failing systems addressed annually	DPW/Frank Dellaripa P.E.	9/30/24	The MDC Long Term Control Plan identifies numerous projects to eliminate CSOs
3-7 Develop and maintain an inventory identifying all known locations where SSOs have discharged to the MS4 within the previous 5 years	Complete	SSOs are managed by the MDC. The MDC has developed and maintains the SSO inventory.	Inventory developed and updated upon occurrence but at least annually and included in the Annual Report	DPW/Frank Dellaripa P.E.	10/27/17	SSO Inventory is maintained by The MDC and is included in the MDC 2024 Annual Report attached as an appendix.

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

The City anticipates identifying MS4 systems vs. combined systems and determining ownership with the MDC. The city will begin dry weather outfall evaluations for City owned MS4 outfalls in 2025 and will update its ordinance to include illicit discharges.

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.

Note: SSO Inventory is maintained by The MDC and is included in the MDC 2024 Annual Report attached as an appendix.

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)

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
The Department of Health and Human Services (HSS) Environmental Health Division regulates septic systems in Hartford. Due to extensive development, the majority of the City is served by the MDC sanitary sewer system. According to the HSS Environmental Health Division, there is a small area where septic systems may exist but exact locations are unknown. HSS Environmental Health Division did not receive any reports of failed septic systems in 2024.				

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

After a citizen reports a concern to the Hartford 311, it is issued a case number and is logged into an advanced tracking system that allows the appropriate department to take ownership and respond appropriately. The status of the concern can be checked by the case number. The Hartford Office of Community Engagement tracks the 311 calls and the Department of Public Works is responsible for tracking responses to those reports.

3.6 IDDE reporting metrics

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

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 it is given (minimum once per year).

Illicit discharge identification and reporting training is given to DPW operations staff during annual environmental training. Staff are trained to identify illicit discharges and what the exceptions are, and who to report an illicit discharge to upon discovery.

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

4.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
4-1a Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit (Due 7/1/20)	Ongoing	The City has established and implemented land use regulations to control construction site runoff in Section 6.14 (Stormwater & Low Impact Development) and 6.16.3 (Soil Erosion & Sediment Control) of the Zoning Regulations.	Existing E&S control and stormwater regulations reviewed and revised as necessary by deadline	Department of Development Services/Randal Davis, Interim Director	Anticipate completion 7/1/25	The City's LID regulations incorporate by reference the Connecticut Stormwater Quality Manual to improve the quality of stormwater runoff from a site. Section 6.14 last revised 12/13/22
4-1b Establish interagency or inter-jurisdictional agreements (Ongoing)	In progress	The City and MDC met several times in 2024 to negotiate an MOU. The Town of West Hartford notified the City of ten locations where the Town's storm drainage system interconnects. It has not been determined if they are interconnected to the City's drainage system or the MDC's drainage system.	Interagency or inter-jurisdictional agreements established by deadline	DPW/Frank Dellaripa P.E.	City/MDC MOU Executed 1/14/25	Potentially interconnected MS4s that have been tentatively identified include the MDC, West Hartford, Bloomfield, Newington, various state properties and CTDOT
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	Complete	The City has implemented interdepartmental coordination in site plan review and approval	Plan developed and implemented by deadline	Department of Development Services/Randal Davis, Interim Director	Before 7/1/17	
4-3 Review site plans for stormwater quality concerns (Ongoing)	Ongoing	Site plans were reviewed for stormwater quality concerns	100% of site plans received are reviewed prior to approval for E&S control to	Department of Development Services/Randal	Ongoing	

			prevent or minimize impacts to water quality	Davis, Interim Director		
4-4 Conduct site inspections (Ongoing)	Ongoing	DPW is waiting for confirmation from DDS that site inspections were conducted	Formal inspection checklist reviewed/ revised as necessary by deadline, 100% of site inspections conducted for all sites constructed within reporting period, and percent of resolutions achieved after discovery of deficiency	Department of Development Services/Randal Davis, Interim Director	Ongoing	
4-5 Implement procedure to allow public comment on site development (Ongoing)	Ongoing	Currently any project requiring approval by a land use agency or commission is presented at a public meeting.	Public meetings held by Planning, Zoning and Inland Wetlands Agency for 100% of eligible projects; 100% of projects posted on City website when not presented at a meeting	Department of Development Services/Randal Davis, Interim Director	Ongoing	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Ongoing	The City notifies Contractors and developers that they must submit a registration Stormwater Construction General Permit when the City holds a preconstruction meeting or reviews an application	Flyers provided in 100% of preconstruction meetings and land use application reviews	Department of Development Services/Randal Davis, Interim Director	Ongoing	

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

DPW will review land use regulations in the context of the General Permit Part 6.a.4.A.i.d to determine additional language that will strengthen and clarify the requirements of property owners for a long-term maintenance plan and schedule

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

5.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (include the start date for anything that is 'in progress')	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)	Ongoing	The City has established and implemented land use regulations regarding Low Impact Development and runoff reduction in site planning per Section 6.14 (Stormwater & Low Impact Development) last revised 12/13/22. Other sections of the City's Zoning Regulations include guidelines for the elimination of minimum parking requirements, significant reduction in impervious surface is through the requirements for the design of new surface parking areas and existing parking areas that are subject to modification or improvement (Sections 6.10 and 7.3), and standards that incorporate strong protections for existing trees (Section 6.4.1).	1) Legal authority established for LID and runoff reduction practices; 2) Identification and, where appropriate, reduction or elimination of existing local regulatory barriers to implementing LID and runoff practices; and 3) Consideration of the watershed protection elements to manage the impacts of stormwater on receiving waters implemented	Department of Development Services/Randal Davis, Interim Director	12/31/25	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	Complete	Regulations requires developers to manage the initial 1.3 inches of rainwater on their properties, where feasible.	Percent of Water Quality Volume retained	Department of Development Services/Randal Davis, Interim Director	7/1/19	

5-3a Identify retention and detention ponds in priority areas (Due 7/1/20)	Not started		Identify City-owned retention and detention ponds in priority areas	DPW/Frank Dellaripa P.E.	Anticipate completion 12/31/25	
5-3b Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	Not started		Inspect 100% of City-owned stormwater basins and treatment structures annually	DPW/Frank Dellaripa P.E.	Anticipate completion 12/31/25	
5-4 DCIA mapping (Due 7/1/20)	In progress	The DPW GIS division created an impervious surface map	Calculate DCIA for all outfalls	DPW/Frank Dellaripa P.E.	Anticipate developing a Program to track DICA by 12/31/25	https://hartfordclimate.files.wordpress.com/2016/12/map-gis-nrz_impervious_surface.pdf
5-5 Address post-construction issues in areas with pollutants of concern	Not started		Plan for correcting problems identified under BMP 5-3b developed within 12 months of identification; 100 % of identified problems corrected within required timeframe	DPW/Frank Dellaripa P.E.	Anticipate completion 12/31/25	
5-6 Implement and maintain any control measures or conditions for New Discharge to an Impaired Water without an Established TMDL	Not started		100% of control measures or conditions implemented and maintained	DPW/Frank Dellaripa P.E.	Anticipate completion 12/31/25	

5-7 Additional requirements for all new and existing discharges to a water with an Established TMDL or with a Pollutant Load Reduction	Not started		100% of the discharge requirements consistent with the applicable Wasteload Allocations, Load Allocations or Water Quality Targets for that TMDL followed for new authorized discharges to a water with a TMDL or with a pollutant load reduction established within the TMDL	DPW/Frank Dellaripa P.E.	Anticipate completion 12/31/25	
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5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

The City will conduct a final review of Hartford’s LID regulations located in several sections of the Zoning Regulations to determine if any minor adjustments are necessary.

5.3 Post-Construction Stormwater Management reporting metrics

For details on this requirement, visit <https://nemo.uconn.edu/ms4/tasks/post-construction.htm>. Scroll down to the DCIA section.

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	5,287.4 acres
DCIA disconnected (redevelopment plus retrofits)	0 acres this year / 0 acres total
Retrofit projects completed	0
DCIA disconnected	0% this year / 0% total since 2012
Estimated cost of retrofits	\$0
Detention or retention ponds identified	0 this year /0 total

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

DCIA taken from UCONN CLEAR MS4 mapping data for total impervious cover without taking into account potentially disconnected areas

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

6.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
6-1 Develop/implement formal employee training program (Ongoing)	Ongoing	Environmental Training provided to all DPW operations divisions at least quarterly to ensure all employees receive annual training	100% of required operational employees trained annually	DPW/Frank Dellaripa P.E.	3/14/24 4/17/24 7/17/24 10/2/24	181 of 189 (96%) operational employees trained in 2024 for Industrial and MS4 stormwater permits, IDDE, and spill prevention and response.
6-2a Minimize the discharge of pollutants to MS4 from parks and open space management (Ongoing)	Ongoing	"Low mow zones" at Keney, Goodwin, Pope, Colt, Elizabeth and Brackett Parks	100% of existing SOP's reviewed and updated by deadline.	DPW/Frank Dellaripa P.E.	Ongoing	Low mow zones are planted with meadow plants instead of traditional turf
6-2b Minimize the discharge of pollutants to MS4 from pet waste (Ongoing)	In Progress	The City's website for dog registration includes a User's Guide Colt Park has five dog waste stations available for the public to clean up after their dogs	1) Locations with inappropriate pet waste management identified; and 2) % of locations where compliance activities are complete.	DPW/Frank Dellaripa P.E.	Ongoing	User's Guide informs the public that picking up of dog feces is required at all times and violation of this municipal ordinance will result in a \$50 fine https://www.hartfordct.gov/Government/Town-and-City-Clerk/Town-Clerk-Services/Dog-Registration Lawn signs made to distribute to residents that state: "Be a good neighbor, please clean up after your dog"

6-2c Minimize the discharge of pollutants to MS4 from waterfowl (Ongoing)	In Progress	Hartford Parks prohibit feeding of waterfowl	1) Lands where waterfowl congregate identified; 2) % of identified lands that have signs installed or other targeted techniques to educate public and discourage feeding; 3) % of identified lands that have practices implemented to prevent congregation and/or the areas of direct drainage isolated	DPW/Frank Dellaripa P.E.	Ongoing	
6-2d Minimize the discharge of pollutants to MS4 from buildings & facilities (Ongoing)	In progress	All parking lots swept annually as per Street Sweeping SOPs.	1) Procedures developed and implemented for dumpsters; 2) Parking lots swept annually; 3) Non-SWPPP facilities evaluated to ensure no interior floor drains connect to the MS4	DPW/Frank Dellaripa P.E.	Ongoing	The City has a SWPPP Plan for the DPW Yard and the DEEP has a SWPPP Plan for the Municipal Transfer Station & closed landfill. The City has SPCC plans for 10 City-owned facilities.
6-2e Minimize the discharge of pollutants to MS4 from municipal vehicle and equipment maintenance (Ongoing)	Ongoing	All vehicles are washed in designated areas at the DPW garage where wash water is directed to an oil/water separator and then the sanitary sewer system	1) Procedures established for Town vehicle storage; 2) Procedures established to ensure that vehicle wash waters are not discharged to the MS4 or to surface waters.	DPW/Frank Dellaripa P.E.	Ongoing	
6-2f Minimize the discharge of pollutants to MS4 from leaf management (Ongoing)	Ongoing	The City has a Leaf Collection Program where leaves are collected city-wide in the fall and spring, leaves are collected year round at transfer station and brought to a compost facility, Streets are swept in the fall	Problem streets swept annually in the fall as part of BMP #6-9; Educational information provided on the City website	DPW/Frank Dellaripa P.E.	Ongoing	https://www.hartfordct.gov/Government/Departments/Public-Works/DPW-Services/Leaf-Collection Christmas tree collection 1/8/24 to 2/23/24 Spring Yard Waste Collection 5/13/24 & 5/20/24 Summer Yard Waste Collection Jun - Sep Fall Leaf Collection 11/5/23 to 12/24/23
6-3 Implement coordination with interconnected MS4s	In Progress	The City met with the MDC several times to develop a MOU (executed on 1/14/25)	Interconnected MS4 coordination implemented	DPW/Frank Dellaripa P.E.	Completed 1/14/25	DOT is not entering into agreements with municipalities but is sharing IDDE results in excess of permit triggers with the affected municipality. The Town of West Hartford has provided a point of contact.

6-4 Develop/implement program to control other sources of pollutants to the MS4	In Progress	City used a contractor for maintenance and debris cleanup efforts North Branch Park River Watershed Management Plan	Program developed and implemented to control the contribution of pollutants to MS4 by deadline	DPW/Frank Dellaripa P.E.	Ongoing	Debris removal activities were conducted at the following locations: <ul style="list-style-type: none"> Gully Brook between Love Lane and Westland Street in February 2024 Cemetery Brook in vicinity of Chandler Street, Broadview Terrace, Grafton Street and Sherbrooke Avenue in January 2024 Park River Conduit inlet cleaning activities conducted twice in 2024 with second cleaning in October 2024. Project goals are to advance green infrastructure implementation in North Branch Park River watershed and update 2010 watershed management plan
6-5 Evaluate additional measures for discharges to impaired waters	Ongoing	See Activities in Current Reporting Period for BMP 6-4 above	Additional measures implemented	DPW/Frank Dellaripa P.E.	Ongoing	See Additional Details for BMP 6-4 above for contractor cleanups and the North Branch Park River Watershed Management Plan
6-6 Track projects that disconnect DCIA (Ongoing)	In progress	The Office of Sustainability had previously tracked green infrastructure projects but the information is no longer available	The total amount of DCIA that has been disconnected during a given year	DPW/Frank Dellaripa P.E.	Anticipate developing a Program to track DICA by 12/31/25	
6-7 Implement infrastructure repair/rehab program (Due 7/1/21)	Not Started		Program developed and implemented by deadline	DPW/Frank Dellaripa P.E.	Based on the MDC / City MOU 2-year milestone to address the ownership issue, anticipate completion 12/31/26	

6-8a Develop/implement plan to identify/prioritize retrofit projects (Due 7/1/20)	Not Started		Plan developed by deadline	DPW/Frank Dellaripa P.E.	Based on the MDC / City MOU 2-year milestone to address the ownership issue, anticipate completion 12/31/26	
6-8b Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/22)	Not Started		2% DCIA disconnected by deadline	DPW/Frank Dellaripa P.E.	Based on the MDC / City MOU 2-year milestone to address the ownership issue, anticipate completion 12/31/26	
6-9 Develop/implement street sweeping program (Ongoing)	Complete	The City updated SOPs for Street Sweeping and completed annual sweeping goals DPW Spring Cleaning Street Sweeping weekends of 5/10/24 & 5/17/24	Sweep all residential roadways twice/year, sweep City-owned parking facilities once annually	DPW/Frank Dellaripa P.E.	By 7/1/17	299.51 tons of street sweepings were collected this year. A cleaning crew was assigned to follow behind trash collection to clean off catch basin tops when cars are not allowed to be parked on the street. Used Hartford 311 to notify residents that the parking ban enforcement would start on 7/31/24 and promote awareness of cleaner streets through street sweeping.
6-10 Develop/implement catch basin cleaning program (Ongoing)	Ongoing	The MDC manages catch basin cleaning within the City	100% of catch basins cleaned within schedule	DPW/Frank Dellaripa P.E.	Ongoing	The MDC catch basin cleaning report is included in the MDC 2024 Annual Report attached as an appendix.

<p>6-11 Develop/implement snow management practices (Due 7/1/18)</p>	<p>Ongoing</p>	<p>The City followed standard operating procedures for snow management practices and all employees received on-the-job training on equipment</p>	<p>1) SOPs implemented and refined, 2) Percent of operational staff trained on application methods and equipment; and 3) optimization goals for sand and/or chemical application rates met annually</p>	<p>DPW/Frank Dellaripa P.E.</p>	<p>Ongoing</p>	<p>Service vendor re-calibrates electronic spreaders annually, all conveyer settings are set to the proper calibration rate for optimal levels according to the manufacturer’s instructions (average 300 pounds per lane mile); prior to each storm, the truck gate opening is checked to ensure even flow of material by making sure both sides of the reflective tape are lined up (2” opening)</p> <p>City purchased a new payloader, a John Deere 624P that is equipped with an on-board scale, which makes the salt management much easier.</p>
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6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.

The DPW will work with DDS and Office of Sustainability to track projects that disconnect DCIA, implement infrastructure repair/rehab program, and develop a plan to identify/prioritize retrofit projects and disconnect DCIA. The City will provide outreach to commercial stormwater permittees to ensure they are sweeping paved areas and cleaning catch basins. The City will utilize a contractor to clean City-owned catch basins.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	yes / 3/14/24, 4/17/24, 7/17/24, & 10/2/24
Street sweeping	
Curb miles swept	TBD
Volume (or mass) of material collected	299.51 tons
Catch basin cleaning	
Total catch basins in priority areas (value will be less than or equal to total catch basins town or institution-wide)	The MDC catch basin cleaning report is included in the MDC 2024 Annual Report attached as an appendix
Total catch basins town- (or institution-) wide	
Catch basins inspected	
Catch basins cleaned	
Volume (or mass) of material removed from all catch basins	
Volume removed from catch basins to impaired waters (if known)	
Snow management	
Type(s) of deicing material used	ClearLane treated salt, Morton Safe-T-Salt, & brine solution (23.3% mix)
Total amount of each deicing material applied	2,497.78 tons ClearLane 506.99 tons Morton Safe-T-Salt
Type(s) of deicing equipment used	Fleet of 6 & 10 wheel trucks w/ speed control; various smaller plow vehicles w/o speed control; some storms various sanitation vehicles are outfitted w/ plows; two 1,500-gal brine tankers; payloader with scale
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	217.7 miles
Snow disposal location	City Parking Lots located at #63 & #80 New Road
Staff training provided on application methods & equipment	Yes / On-the-job training provided
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	Not Applicable
Reduction in application of fertilizers (since start of permit)	The City uses fertilizer at 5 ballfields located in two of the City's Parks (Colt Park and Pope Park). The City's contractor uses a Three Application Program where a slow-release nitrogen fertilizer is applied in the spring and fall which releases by temperature so that each application lasts three months.
Reduction in turf area (since start of permit)	City reduced 80 acres of turf by converting to Low Mow Zones
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	Not tracked

6.4 Catch basin cleaning program

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

The MDC manages catch basin cleaning within the City of Hartford. The MDC catch basin cleaning report is included in the MDC 2024 Annual Report attached as an appendix.

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)

Retrofit program not started.

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)

Retrofit program not started.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

For details on this requirement, visit <https://nemo.uconn.edu/ms4/tasks/monitoring.htm>. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

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

Nitrogen/ Phosphorus Bacteria Mercury Other Pollutant of Concern

1.2 Describe program status

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

The MDC Impaired Waters Outfall Investigation and Monitoring Program is described in the MDC 2024 Annual Report attached as an appendix.

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

2.1 Screening data

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

The MDC screening data for outfalls to impaired waterbodies is included in the MDC 2024 Annual Report attached as an appendix.

Outfall ID	Latitude / Longitude	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	E-Coli Results col/100 ml	Follow-up required? *

*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 ID	Status of drainage area investigation	Control measure to address impairment
TOW #M1-214002	<p>The COH forwarded a letter to the MDC that was prepared by the Town of Wethersfield (TOW) dated May 20, 2020 that had identified elevated bacteria of 24,200 col/100ml at TOW #M1-214002 located to the east of the intersection of Silas Deane Highway and Hartford Avenue near the Hartford city line. The TOW screening sample was taken on December 21, 2018 during a 2.3" + rain event equivalent to a 1-year storm. As a result of the storm event, the MDC Franklin Avenue Combined Sewer Overflow (CSO) regulators were activated due to the size of the storm, which discharge to the 72" Franklin Avenue Storm Drain, that required MDC to open the DEEP permitted CSO regulator F-5 which discharges to the Wethersfield outfall #M1-214002.</p> <p>MDC performed a follow up dry weather sampling event at the Wethersfield outfall #M1-214002 on August 24, 2020. Prior to sampling MDC visually confirmed that CSO regulator F-5 had no flow and was closed. It was identified that there was a significant flow at the Wethersfield outfall during sampling. The outfall sample results measured fecal coliform at >2,420 mpn/100ml. The source of the elevated bacteria is unknown.</p>	MDC suggests that additional investigation is performed in conjunction with the TOW and COH to identify the source of bacteria.

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

Once outfall sampling has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2021.

Outfall	Latitude / Longitude	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)

Part III: Additional IDDE Program Data

The IDDE Program was not started in 2024. The City is working with the MDC to identify MS4 systems vs. combined systems and ownership.

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

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

For details on this requirement, visit <https://nemo.uconn.edu/ms4/tasks/monitoring.htm>. Refer to the blue column of the Monitoring comparison chart and the IDDE baseline monitoring flowchart.

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

Outfall / Interconnection ID	Latitude / Longitude	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken

2.2 Wet weather sample and inspection data

For details on this requirement, visit <https://nemo.uconn.edu/ms4/tasks/monitoring.htm>. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

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

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

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

For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

3.1 System Vulnerability Factor Summary

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

Outfall ID	Receiving Water	System Vulnerability Factors

Where SVFs are:

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

3.2 Key junction manhole dry weather screening and sampling data

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

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

3.3 Wet weather investigation outfall sampling data

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

Outfall ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Surfactants

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

Part IV: Certification

<p>“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.”</p>	
Duly Authorized Representative	Document Prepared by
Print name: Christopher Hayes	Print name: Kristin Doundoulakis
Signature / Date:	Signature / Date: /
Email: Christopher.Hayes@hartford.gov	Email: Kristin@Atlas-Environmental.com

Appendix:

2024 MDC Stormwater Annual Report

DRAFT



The Metropolitan District
water supply · environmental services · geographic information

February 12, 2025

City of Hartford – Department of Public Works
Attn: Frank Dellaripa, P.E.
50 Jennings Road, 2nd floor
Hartford, CT 06120

RE: 2024 Annual Report for the General Permit for the Discharge of Stormwater from Small Municipal Separate Stormwater Sewer Systems (MS4 General Permit)

Dear Mr. Dellaripa:

MDC has prepared the attached information for the MS4 General Permit issued to the City of Hartford (COH) by the DEEP. This information is provided to the COH for inclusion in the Annual Report for submittal to the DEEP. Attached is the MDC information for the Best Management Practices (BMPs) which have been addressed in 2024.

If you have any questions, please call me at (860) 278-7850 ext. 3451.

Regards,

Craig E Scott

Craig Scott, P.E.
Manager of EH&S

Cc: Chris Levesque, MDC
Jason Waterbury, MDC

2024 MS4 Stormwater Annual Report

Section 6(a)(3)(A)(iii) List of citizen reports of suspected illicit discharges received during this reporting period.

Date of Report	Location / suspected source	Response taken
None		

Section 6(a)(3)(A)(v) Provide a record of illicit discharges abatement activities occurring during the 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)
225 New Park Ave	1/10/24-1/11/24 30.5 hours	Paved area to Storm Drain to CT River	100-1,000 gallons	Capacity Limitations due to 3.33" rain event	Surcharge flows must recede back to normal operating level	None
50 Stonington Street	3/23/24 9.75 hours	Paved area to Storm Drain to CT River	1,000-5,000 gallons	Collapsed Main Sewer Pipe	Main Sewer Bypassed and repaired collapsed pipe	None
150 New Park Avenue	3/23/24 – 3/24/24 12 hours	Paved area to Storm Drain to CT River	<100 gallons	Capacity Limitations due to 2.6" rain event	Surcharge flows must recede back to normal operating level	None
Asylum Street @ High Street	8/3/24 1.75 hours	From CSO Chamber P-10 to Park River Conduit	100,000-500,000 gallons	Contractor hit water main	Surcharge flows recede back to normal once water main is shutoff	None
14-16 Chapin Place	08/18/24-08/19/24 12.5 hours	Paved area to Storm Drain to CT River	<100 gallons	Capacity Limitations due to 3.05" rain event	Surcharge flows must recede back to normal operating level	None
79 Stone Street	08/18/24-08/19/24 12.75 hours	Paved area to Storm Drain to CT River	<100 gallons	Capacity Limitations due to 3.05" rain event	Surcharge flows must recede back to normal operating level	None
77-79 South Street	08/18/24-08/19/24 12.75 hours	Paved area to Storm Drain to CT River	<100 gallons	Capacity Limitations due to 3.05" rain event	Surcharge flows must recede back to normal operating level	None
442 New Britain Ave	08/18/24-08/19/24 13 hours	Paved area to Storm Drain to CT River	<100 gallons	Capacity Limitations due to 3.05" rain event	Surcharge flows must recede back to normal operating level	None
248-250 Sisson Ave	10/7/24 3 hours	Paved area to Storm Drain to CT River	<100 gallons	Grease	Main sewer flushed by jet truck and overflow relieved	None

2024 MS4 Stormwater Annual Report

Section 6(a)(6)(D)(ii) Pollution Prevention/ Good Housekeeping – Catch Basin Cleaning reporting metrics.

Catch Basin Cleaning Program

Metrics		
Catch basin cleaning	2024	2023
Total catch basins in priority areas	1,030	1,030
Total catch basins in MS4	6,600	6,600
Catch basins inspected	461	1,324
Catch basins cleaned	2,935	2,942
Volume (or mass) of material removed from all catch basins	870.46 tons	799.9 tons
Volume removed from catch basins to impaired waters (if known)	870.46 tons	799.9 tons

The following information is provided for the MDC Catch basin cleaning program

MDC manages cleaning of MDC catch basins within the City of Hartford.

- 3,396 points of data were collected on catch basins, either through cleaning or inspections, in 2024
- 406 catch basins had either poor data acquired or too small of a sump to get an accurate measurement in 2024
- 3,204 catch basins were not cleaned or inspected in 2024
- 1,569 CBs **CLEANED** in 2024 had data collected in 2023. Of this total
 - 548 had their sump filled 50% or more since being cleaned or inspected in 2023
 - 269 had their sump filled 25-50% since being cleaned or inspected in 2023
 - 752 had their sump filled less than 25% since being cleaned or inspected in 2023
- 311 CBs were **INSPECTED** in 2024, with a 2023 data point
 - 108 were also cleaned in 2024, and therefore their data is represented in the above bullets, aka part of the 1,569
 - 142 had their sump filled 50% or more since being cleaned or inspected in 2023
 - 40 had their sump filled 25-50% since being cleaned or inspected in 2023
 - 21 had their sump filled less than 25% since being cleaned or inspected in 2023
- The above data screens out catch basins that have minimal, or no sumps as noted. These catch basins are inspected and tracked for condition of outlet pipes (broken/clogged), and the amount of sediment is not significant. There is usually only an inch or two of sitting sediment in these catch basins, around the invert of the outlet pipe.
- A summary of the 2024 versus 2023 Catch Basin Cleaning Analysis is provided in Attachment A.

2024 MS4 Stormwater Annual Report

Section 6(i)(1)(B) Impaired Waters Outfall Investigation and Monitoring program

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.

MDC listed and mapped the MDC outfalls that discharge to impaired waters. MDC conducted screening of the 42 outfalls shown below for the pollutant identified as the pollutant of concern for the impairment.

In 2024, MDC, COH, EPA and DEEP met to discuss the coordination and agreement of a Memorandum of Understanding (MOU). On January 14, 2025, the MOU was signed and agreed to by MDC and COH.

In 2024, MDC issued two Illicit Discharge Detection Elimination Program Notifications for the following:

- Issued to the COH for the property owned by City Auto Parts located at 25 Fish Fry Steet
- Issued to the COH and Community Renewal Team building located 1443-1445 Main Street

Also in 2024, MDC identified MDC outfalls 7, 10, 11, 15, and 42/43 should be resampled since they had the highest E-Coli initial screening. The results of the 2024 sampling are provided below.

Screening data for outfalls to impaired waterbodies

Outfall ID	Latitude / Longitude	Location	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	E-Coli Results col/100 ml	Follow-up required? *
2	41.805096, -72.706549	Just north of Burnham Street	09/10/18	Bacteria	1,600	Yes
3	41.805616, -72.706614	By Burnham & North Canaan	09/10/18	Bacteria	3,100	Yes
4	41.799490, -72.690070	Woodstock & Coventry	09/10/18	Bacteria	1,500	Yes
5	41.800746, -72.689673	Gully Brook & Tower Ave.	09/10/18	Bacteria	5,400	Yes
6	41.794592, -72.682660	Slightly NE of Vine & Love Lane	09/10/18	Bacteria	160	No
7	41.789416, -72.709175	Ogilby & Mark Twain Drive	09/10/18	Bacteria	>120,950	Yes
8	41.785032, -72.707126	Dillon & Albany	09/10/18	Bacteria	4,100	Yes
9	41.784998, -72.708466	Scarborough & Albany	09/10/18	Bacteria	<50	No
10	41.780282, -72.700663	On North branch of Park River @ Homestead Ave.	09/10/18	Bacteria	>120,950	Yes
11	41.779034, -72.701500	Woodland Drive	09/10/18	Bacteria	99,000	Yes
12	41.776282, -72.703195	Woodside Circle/St. Francis	09/10/18	Bacteria	4,300	Yes
13	41.774499, -72.701591	Woodland St. @St. Francis	09/10/18	Bacteria	2,800	Yes
14	41.774355, -72.704059	Asylum/ Woodland Circle	09/10/18	Bacteria	100	No
15	41.773310, -72.703050	Park River/ Asylum Ave.	11/12/19	Bacteria	7,800	Yes

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16	41.773310, -72.703994	Asylum Avenue	11/12/19	Bacteria	920	Yes
17**	41.766496, -72.703086	Park River Conduit @ Hartford Public High School	11/12/19	Bacteria	50	No
18**	41.761521, -72.700994	Park River Conduit @ railroad tracks by Capitol Ave.	11/12/19	Bacteria	50	No
19**	41.762313, -72.693429	Park River Conduit @ Park Territory & Russ St.	11/12/19	Bacteria	1,900	Yes
20**	41.763066, -72.693440	Park River Conduit @ Park Territory btw Russ St. & Capital Avenue	11/12/19	Bacteria	1,500	Yes
21**	41.763245, -72.694282	Park River Conduit @ Park Territory & Capital Avenue	11/12/19	Bacteria	100	No
22**	41.763434, -72.692935	Park River Conduit under I-84 E. Overpass (Exit 47)	11/12/19	Bacteria	2,200	Yes
23**	41.764774, 72.687920	Park River Conduit @ Flower Street	11/12/19	Bacteria	100	No
24	41.754430, -72.701515	Pope Park Highway No. 4	11/12/19	Bacteria	600	Yes
25	41.753126, -72.699904	Hamilton St. Overpass – Park River	11/12/19	Bacteria	260	No
26	41.752954, -72.699249	Hamilton & Brookfield	11/12/19	Bacteria	430	Yes
27	41.750905, -72.702500	Olive & Brookfield	11/12/19	Bacteria	100	No
28	41.750313, -72.710999	New Park Avenue	11/12/19	Bacteria	1,700	Yes
29	NA	<i>On-ramp for I-84 East off Flatbush Ave. Identified as a CTDOT outfall</i>	10/12/20	NA	NA	NA
30	41.742803, -72.710297	<i>Flatbush Ave and William Shorty Campbell St</i>	10/12/20	Bacteria	940	Yes
31	41.742819, -72.710265	<i>Flatbush Ave Overpass</i>	10/12/20	Bacteria	4,000	Yes
32	41.742827, -72.710147	<i>Flatbush Ave. Overpass and Brookfield St.</i>	10/12/20	Bacteria	940	Yes
33	41.743299, -72.706617	<i>Flatbush Ave. (by new Prince Technical School)</i>	10/12/20	Bacteria	370	No
34	41.742371, -72.708602	<i>Brookfield St - Park River, South Branch</i>	10/12/20	Bacteria	920	Yes
35	41.741730, -72.709976	<i>William Shorty Campbell St</i>	10/12/20	Bacteria	880	Yes
36	41.739953, -72.709536	<i>William Shorty Campbell St</i>	10/12/20	Bacteria	420	Yes
37	NA	<i>Park River - South Branch by Clermont St. Inaccessible</i>	10/12/20	Bacteria	NA	NA
38	41.737647, -72.712325	<i>John D Wardlaw Way</i>	10/12/20	Bacteria	<50	No
39	41.734293, -72.713934	<i>Newfield & Dexter (A)</i>	10/12/20	Bacteria	3,700	Yes
40	NA	<i>Newfield & Dexter (B) inaccessible</i>	10/12/20	Bacteria	NA	NA
41	41.738414, -72.665957	<i>Airport Road & 915 (exit 27)</i>	10/12/20	Bacteria	1,100	Yes
42/43	41.733859, -72.667799	<i>Ledyard Street</i>	10/12/20	Bacteria	39,000	Yes
44	41.733859, -72.667799	<i>Folly Brook Dike</i>	10/12/20	Bacteria	39,000	Yes
45	41.793726, -72.709175	<i>North of Annie Fisher School</i>	10/12/20	Bacteria	<50	No
46	41.791623, -72.709389	<i>South of Annie Fisher on Mark Twain</i>	10/12/20	Bacteria	<50	No

*Per Section 6(i)(1)(8) of the General Permit, the outfall shall be identified for follow-up investigation if E. Coli result is greater than 410 col/100ml. If the permittee can document that bacteria levels at an outfall that exceed these levels are solely the result of natural sources of bacteria, they are not required to conduct a follow-up investigation for that outfall. Natural sources may include wildlife or runoff from undeveloped wooded areas but do not include pet waste or waterfowl congregating at parks, ponds or other attractive nuisance areas.

**Outfall is located underground into Park River Conduit

2024 MS4 Stormwater Annual Report

Section 6(i)(1)(D) Follow-up investigations

For 2024, MDC performed follow up sampling for the five highest screenings for the following outfalls:

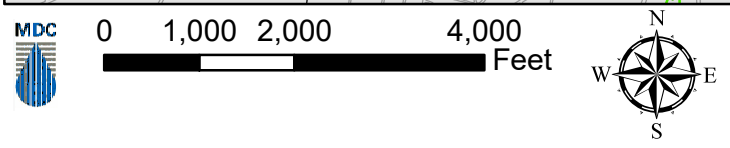
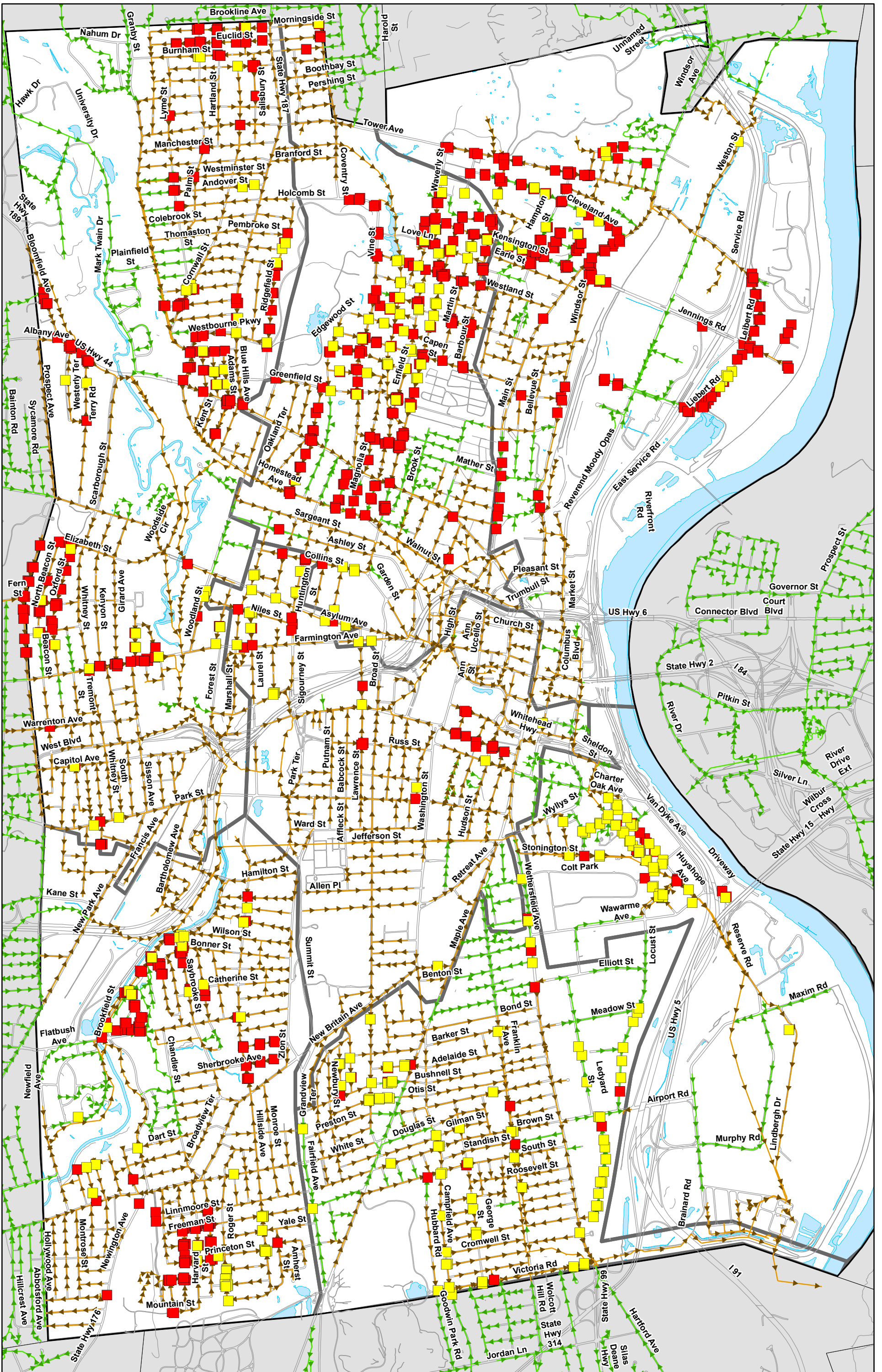
Outfall ID	Latitude / Longitude	Location	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	2018/2019 E-Coli Results col/100 ml	2024 E-Coli Results col/100 ml	Sample Parameter (mg/L)	Follow-up required?
7	41.789416, -72.709175	Ogilby & Mark Twain Drive	09/10/18, 12/09/24	Bacteria	>120,950	<50		No
10	41.780282, -72.700663	On North branch of Park River @ Homestead Ave.	09/10/18, 12/09/24	Bacteria	>120,950	7,800		Yes
10	41.780282, -72.700663	On North branch of Park River @ Homestead Ave.	12/09/24	Ammonia			<0.30	No
10	41.780282, -72.700663	On North branch of Park River @ Homestead Ave.	12/09/24	Surfactants			0.18	No
11	41.779034, -72.701500	Woodland Drive	09/10/18 12/09/24	Bacteria	99,000	160		No
15	41.773310, -72.703050	Park River/ Asylum Ave.	11/12/19, 12/09/24	Bacteria	7,800	50		No
42/43	41.733859, -72.667799	<i>Ledyard Street</i>	10/12/20, 12/09/24	Bacteria	39,000	50		No

It appears for Outfalls 7, 11, 15, and 42/43 were all below the recommended bacteria limit of 410 col/ml and therefore do not require additional follow-up.

Outfall 10 exceeded the recommended bacteria limit of 410 col/ml. Therefore, ammonia and surfactants were analyzed and were not found to be present. Additional investigation will be needed to determine sources of bacteria.

MDC will continue to resample outfalls that have exceeded the initial screening bacterial limit.

**ATTACHMENT A
2023 VS 2024 CATCH BASIN CLEANING ANALYSIS**



- Catch basin with 50% (or more) accumulation from 2023 to 2024
- Catch basin with 25% to 50% accumulation from 2023 to 2024