

MDC



**THE METROPOLITAN DISTRICT
STORMWATER MANAGEMENT PLAN**

December 2025

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Executive Summary

This document presents the Stormwater Management Plan (SWMP) for the Metropolitan District (MDC). The storm drainage system in Hartford is primarily owned by MDC. MDC acquired ownership of the storm and sewerage systems from the City of Hartford (COH) in 1929. However, there are other parts of the storm drainage system owned by the COH.

According to the MDC data, the enclosed USGS Topographic Quadrangle map shows the area of Hartford that has separate storm sewers. MDC, COH, federal and state properties maintain stormwater infrastructure in their geographical area. The COH maintains its own Stormwater Management Plan and therefore is not covered by this plan. However, MDC and COH have developed a Memorandum of Understanding (MOU) to address 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 (MS4s). In addition, MDC and COH have established a Stormwater Committee under the MS4 General Permit to coordinate activities and monitor the progress of the SWMP implementation and execution.

The MS4 General Permit requires MDC to develop, implement and enforce best management practices (BMPs) for the six Minimum Control Measures listed in the MS4 General Permit. BMPs are defined for each Minimum Control Measure and are described in Sections 1 through 6. Descriptions for each BMP include the designation of a responsible person(s), a timeline for implementation, location (where appropriate), and measurable goal(s).

In addition to the six minimum control measures, the General Permit requires MDC to implement a screening and monitoring program for all outfalls that discharge to impaired waters as defined in the most recent *Connecticut Integrated Water Quality Report*. MDC shall also meet certain criteria for discharges to impaired waters, water for which nitrogen, phosphorus, bacteria, or mercury are Stormwater Pollutants of Concern, or waters which have pollution load reductions specified within a TMDL. Also, there are requirements for new discharges to both impaired waters and high quality waters. Requirements for discharges to impaired waters and high quality waters are described in Section 8.

MDC's EH&S will be the lead department to ensure implementation of the SWMP within the established time line. The Manager of EH&S or his/her designee will be the "Stormwater Coordinator" for the SWMP. Responsibilities include coordinating tasks among departments, completing the Annual Report to DEEP, and ensuring the BMPs listed in the SWMP are completed.

An Annual Report for the preceding calendar year will be submitted to DEEP by April 1st annually. The Annual Report shall include: 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, including data collected under the Illicit

Discharge Detection Protocol, during the reporting period. The Annual Report shall be available for review and comment for 30 days by the public both at a physical location and electronically no later than January 31 prior to submission to DEEP.

MDC will submit the MS4 General Permit registration and the SWMP to the DEEP and have them both physically and electronically available for public review. A copy of this SWMP including the Registration Form (Appendix B) will be available during regular business hours at 555 Main Street in Hartford and posted to MDC's website to fulfill that requirement.

Table 1: Implementation Schedule

Year 1 (2025)					
Due Date	Task Description	BMP #	Page #	MS4 Permit Reference	MS4 Permit Page #
12/31/2025	Effective date of MS4 General Permit	NA	ES-1	3(e)	12
	Develop and implement a plan outlining interdepartmental coordination in site plan review and approval	4-2	4-2	6(a)(4)(B)	26
	Review site plans for stormwater quality concerns	4-3	4-2	6(a)(4)(C)	26
	Consideration of public input	4-5	4-3	6(a)(4)(D)	26
	Notify construction site operators of the requirements for registration under "General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities"	4-6	4-3	6(a)(4)(E)	26
	Document compliance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards for all new or increased discharges to High Quality Waters from the MS4	4-7	4-3	3(b)(6)	9
	Demonstrate no new or increased discharges to Impaired Waters from the MS4	4-8	4-4	3(b)(7)	9
	Implement and maintain any control measures or conditions for New Discharge to an Impaired Water without an Established TMDL	5-6	5-5	6(k)(3)	47
	Additional requirements for all new and existing discharges to a water with an Established TMDL or with a Pollutant Load Reduction specified within the TMDL	5-7	5-6	6(k)(4)	47
	Track projects that disconnect DCIA	6-6	6-6	6(a)(6)(B)(ii)(a)	32
	Develop and implement infrastructure repair/rehabilitation program	6-7	6-7	6(a)(6)(B)(i)(a)	31
12/31/2025	Continue the formal employee training program developed under the 2004 MS4 General Permit	6-1	6-1	6(a)(6)(A)	31
	Implement MS4 property and operations maintenance	6-2	6-1	6(a)(6)(C)	33
	Develop and implement a program to control other sources of pollutants to the MS4	6-4	6-5	6(a)(6)(G)	38
	Additional measures for discharges to impaired waters	6-5	6-5	6(a)(6)(H)	38
	Develop/implement street sweeping program	6-9	6-8	6(a)(6)(D)(i)	35
	Develop/implement snow management practices	6-11	6-10	6(a)(6)(E)	37
12/31/2025	Comply with public notice requirements for the SWMP and Annual Reports	2-1	2-3	6(a)(2)(A)	21

Table 1: Implementation Schedule (Continued)

Year 1 (2025) Continued					
Due Date	Task Description	BMP #	Page #	MS4 Permit Reference	MS4 Permit Page #
5/1/2026	Submit Annual Report and public comments/responses to DEEP	NA	ES-1	6(j)(2)	45
12/31/2025	Implement Public Education Program	1-1	1-1	6(a)(1)	19
	Stormwater Committee Meetings	2-2	2-3		
	Sponsor community participation event	2-3	2-4	6(a)(2)	21
	Develop a written IDDE Program	3-1	3-1	6(a)(3)	22
	Develop a program for citizen reporting of illicit discharges	3-3	3-2	6(a)(3)(A)(iii)	22
	Establish legal authority to prohibit and remove illicit discharges	3-4	3-2	6(a)(3)(B)	23
	Develop record keeping system for IDDE tracking	3-5	3-2	6(a)(3)(A)(v)	23
	Address IDDE in areas with pollutants of concern	3-6	3-3	6(a)(3)(D)	24
	Screen all Outfalls that Discharge to Impaired Waters: Begin Screening	7-1	7-1	6(i)	41
Year 2 (2026)					
Due Date	Task Description	BMP #	Page #	MS4 Permit Reference	MS4 Permit Page #
12/31/2026	Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas	3-2	3-2	6(a)(3)(C)	23
	Implement, upgrade (as necessary) and enforce City land use regulations or other legal authority to meet requirements of MS4 General Permit	4-1	4-1	6(a)(4)(A)	25
	Conduct Site Inspections	4-4	4-2	6(a)(4)(A)(c) & 6(a)(4)(C)	25 & 26
	Enforce LID/runoff reduction requirements for development and redevelopment projects	5-2	5-2	6(a)(5)(B)	28
	Implement long-term maintenance plan for stormwater basins and treatment structures	5-3	5-4	6(a)(5)(D)	30
	Address post-construction issues in areas with pollutants of concern	5-5	5-5	6(a)(5)(E)	31
	Inventory and mapping of discharges to impaired waters	7-2	7-3	6(i)(1)	41
	Follow-up Investigations of drainage areas: commence follow-up investigations	7-3	7-3	6(i)(1)(D)	43
	Implement coordination with interconnected MS4s	6-3	6-5	6(a)(6)(F)	38

Table 1: Implementation Schedule (Continued)

Year 3 (2027)					
Due Date	Task Description	BMP #	Page #	MS4 Permit Reference	MS4 Permit Page #
6/30/2027	DCIA mapping	5-4	5-4	6(a)(5)(C)	30
	Develop plan to identify/prioritize retrofit projects	6-8	6-8	6(a)(6)(B)(ii)	32
	Develop/implement catch basin cleaning program: Inspect all City-owned catch basins within the Urbanized Area of the MS4 and outside the Urbanized Area within the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters at least once and clean as needed	6-10	6-9	6(a)(6)(D)(ii)	36
	Screen all Outfalls that Discharge to Impaired Waters: Screen 50% of outfalls that discharge to impaired waters	7-1	7-1	6(i)(1)(E)(ii)	44
	Follow-up Investigations of drainage areas: implement control measures	7-3	7-3	6(i)(1)(D)(ii)	43
Year 1 (2025)					
Due Date	Task Description	BMP #	Page #	MS4 Permit Reference	MS4 Permit Page #
7/1/2025	Annual monitoring of priority outfalls	7-4	7-4	6(i)(1)(E)(iv)	44
7/1/2025	Establish legal authority and guidelines regarding low impact development (LID) and runoff reduction in site development planning	5-1	5-1	6(a)(5)(A)	27
	Develop and implement a retrofit program with the goal to “disconnect” existing DCIA: Disconnect 1% DCIA (or 2% in 5th Year)	6-6	6-6	6(a)(6)(B)(ii)(c)	33
Year 1 (2025)					
Due Date	Task Description	BMP #	Page #	MS4 Permit Reference	MS4 Permit Page #
6/30/2025	Develop and implement a retrofit program with the goal to “disconnect” existing DCIA: Disconnect 2% DCIA (or 1% if 1% disconnected in 4th Year)	6-6	6-6	6(a)(6)(B)(ii)(c)	33
	Develop/implement catch basin cleaning program: Inspect all catch basins outside the Urbanized Area and outside the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters and clean as needed	6-10	6-9	6(a)(6)(D)(ii)	36
	Screen all Outfalls that Discharge to Impaired Waters: Screen 100% of outfalls that discharge to impaired waters	7-1	7-1	6(i)(1)(E)(ii)	44

Section 1

Control Measure 1: Public Education and Outreach

According to the MS4 General Permit, the goals of this minimum control measure are to:

- Raise awareness that polluted Stormwater runoff is the most significant source of water quality problems;
- Motivate residents to use BMPs which reduce polluted Stormwater runoff; and
- Reduce polluted Stormwater runoff as a result of increased awareness and utilization of BMPs.

The following public education/outreach BMPs will be implemented to fulfill the requirements of Control Measure 1:

BMP #1-1 Implement public education program

Description: Implement a public education program to distribute educational materials to the community to achieve the goals of this control measure.

COH shall take the lead in developing a public education program and outreach messaging as required to comply with BMP 1-1, with input from MDC as necessary.

BMP #1-1a Stormwater information provided on the MDC's website

Description: MDC will maintain the MDC webpage (<https://themdc.org/environment-health-safety/>) and reference the City of Hartford's Public Works webpage (<https://www.hartfordct.gov/Government/Departments/Public-Works/Engineering-Division>) which includes links to stormwater educational material.

The MDC webpage informs the public about the best management practices for stormwater management and pollution prevention. The Hartford Public Works webpage is used for environmental programs including a leaf collection and roadside sweeping program.

MDC's stormwater webpage is updated as needed to inform citizens of the availability of the Annual Report and correct any outdated information. MDC will revise the stormwater webpage in accord with BMP #1-2 to prepare tailored and targeted messages for impaired waters associated with a Stormwater Pollutant of Concern.

Measurable Goal: Update MDC Stormwater website as needed

Schedule: By December 31, 2025 prepare postings for MDC website.

BMP #1-1b: Periodically post stormwater management issues on social media

Description: As part of implementing the program, COH will periodically post on social media educational information discussing stormwater management issues as required

by the six Minimum Control Measures (MCMs) including tailored and targeted messages for:

- Impaired waters associated with a Stormwater Pollutant of Concern (BMP #1-2);
- Informing the public about the hazards associated with improper waste disposal and illegal discharges to the MS4 (MCM-3).

Measurable Goal: Post educational information on social media annually.

Schedule: By December 31, 2025 prepare 3 postings for social media.

BMP #1-1c Educate dog owners about picking up dog waste

Description: This BMP will be the responsibility of the COH and will provide information on the proper disposal of dog waste with every dog license in Hartford. Fact sheets will be included with each dog license issued by the COH. Additionally, the COH advertises the locations of its dog waste stations to the public on its website.

Measurable Goal: Pet waste fact sheets distributed to 100% of licensed dog owners with annual dog license.

Schedule: Include factsheet with dog license annually.

BMP #1-2 Address education/outreach for pollutants of concern

Description: Implement additional measures for discharges to waters associated with the following Stormwater Pollutants of Concern: Phosphorus, Nitrogen, Bacteria, and Mercury. Educational materials will be developed as needed to specifically tailor and target education on the sources, impacts, and available pollution reduction practices for the Stormwater Pollutant of Concern in accordance with Section 6(a)(1)(C) of the MS4 General Permit.

As discussed under BMP 1-1, MDC will prepare at least one post for social media addressing Stormwater Pollutants of Concern and their sources, impacts, and available pollution reduction practices and also post links to educational material on the Webpage.

Measurable Goal: One post to social media addressing Stormwater Pollutants of Concern.

Schedule: By December 31, 2025

Section 2

Control Measure 2: Public Participation and Involvement

Control Measure 2 requires opportunities be provided to engage the community to participate in the review and implementation of the MDC's SWMP. According to the MS4 General Permit, the goal of this minimum control measure is to involve the community in both the planning and implementation process of improving Stormwater quality. Public participation is beneficial to the success of a municipal Stormwater management program because it allows for broader public support, additional expertise, and a conduit to other programs.

The following public participation/involvement BMPs will be implemented to fulfill the requirements of Control Measure 2:

BMP #2-1: Comply with public notice requirements for the SWMP and Annual Reports

Description: Publish a public notice on the MDC's website to inform the public of the SWMP and the Annual Report required by Section 6(j) of the MS4 General Permit and to solicit comments on the SWMP and Annual Report. The notice will provide a contact name (with phone number, address, and email) to whom the public can send comments. The SWMP and Annual Report will be publicly accessible on the MDC webpage (<https://themdc.org/environment-health-safety/>) and at the MDC Main Office at 555 Main Street in Hartford. The public notice will allow for a 30 day comment period, at a minimum.

Measurable Goal: All required notices posted by deadline.

Schedule: Post notice for the draft SWMP by April 1 annually and post notices for the annual report 45 days prior to submittal to DEEP but no later than January 31st of each permit year.

BMP #2-2: Stormwater Committee meetings

Description: Under the MS4 General Permit, MDC and COH formed a Stormwater Committee in accordance with the MOU and to coordinate activities and monitor progress of the SWMP. The Committee is comprised of staff representatives from MDC and COH DPW. The Stormwater Committee will be responsible for ensuring the MDC and COH remains on schedule with the various BMPs listed in the SWMP.

Measurable Goal: One meeting held annually.

Schedule: Hold one meeting per year.

BMP #2-3: Sponsor community participation event

Description: COH will hold, or coordinate with a third party to hold at least one community participation event per year and will be the point of contact for public outreach events held by the COH.

- MDC will participate in COH's community participation event or hold its own annual community event or events.
- MDC will continue to hold an annual MDC Household Hazardous Waste Collection Event in Hartford.
- MDC will provide COH with information on the MDC event(s) outlined in this BMP for the Annual Report.

Depending on funding and participation, alternative events may be developed and held.

Measurable Goal: One event held annually

Schedule: One event will be held each year of the permit term.

Section 3

Control Measure 3: Illicit Discharge Detection and Elimination

Control Measure 3 requires the development of a written Illicit Discharge Detection and Elimination (IDDE) Program designed to: provide the legal authority to prohibit and eliminate illicit discharges to the MS4, find the source of any illicit discharges, eliminate those illicit discharges, and ensure ongoing screening and tracking to prevent and/or eliminate future illicit discharges. The MS4 General Permit requires the IDDE Program be implemented within the urbanized area and those catchment areas of the City with either Directly Connected Impervious Area (DCIA) of greater than 11%, or which discharge to impaired waters.

The following best management practices (BMPs) will be implemented to fulfill the requirements of Control Measure 3. Note that BMP #1-1a&b will be used to fulfill the public information program requirement of this control measure, and BMP #6-1 will be used to educate MDC staff about the IDDE program, including how to recognize illicit discharges and Sanitary Sewer Overflows (SSOs). The frequency and type of employee training will be reported in the Annual Report.

BMP #3-1: Develop a written Illicit Discharge Detection and Elimination Program

Description: Develop a written IDDE Program. MDC will review and update the IDDE Program developed under the MS4 General Permit to ensure it is consistent with the MS4 General Permit.

In accordance with section (A)(7) of Appendix B of the MS4 General Permit, the written IDDE Program shall include each of the elements described below:

- Legal Authority
- Statement of IDDE Program Responsibilities
- Assessment and Priority Ranking of Catchments
- Outfall and Interconnection Screening and Sampling
- Catchment Investigation Procedure
- Removal and Confirmation Procedure
- Follow-up Screening
- Illicit Discharge Prevention Procedures

Measurable Goal: Written IDDE Program developed by schedule deadline.

Schedule: By December 31, 2025

BMP #3-2: Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas

Description: Develop a list (spreadsheet or database) and map or series of maps showing all stormwater discharges from MDC-owned and COH-owned or operated pipe or conduit located within the MS4, and all interconnections with other MS4s pursuant to Section (6)(a)(3) and Appendix B of the MS4 General Permit.

Measurable Goal: MDC and COH shall develop and maintain a list and map of all MS4 and related infrastructure in Hartford and all interconnections with other MS4 outfalls and related infrastructure in the COH.

Schedule: MDC completed it's portion of the mapping.

BMP #3-3: Develop a program for citizen reporting of illicit discharges

Description: As part of the IDDE Program (BMP #3-1) for citizen reporting of illicit discharges as part of and affirmatively investigate and eliminate any illicit discharges reported provided such report incorporates at least a time and location of an observed discharge.

All citizen reports and the responses to the reports shall be included in the Annual Report. MDC will direct citizen reports to the City's Hartford 311 Call Center that was established to provide a secure way to report, track, and resolve problems or issues residents may have.

Measurable Goal: MDC may develop a system to directly receive citizen reports of illicit discharges. If MDC directly receives any citizen reports of illicit discharges, MDC will follow its IDDE Program procedures and report the findings to the COH for enforcement.

Schedule: Complete

BMP #3-4: Establish legal authority to prohibit illicit discharges

Description: Update the necessary and enforceable legal authority by statute, ordinance, rules and regulations, permit, easement, contract, order or any other means, to eliminate illicit discharges.

MDC has existing sewer ordinances and regulations addressing illicit discharges and incorporate into municipal code to establish the legal authority in accordance with Section 6(a)(3) and Section (A)(7)(a) of Appendix B of the MS4 General Permit.

Measurable Goal: MDC will update its ordinances as necessary to comply with MS4 regulations, this MOU and Schedule A throughout the portions of the MS4 infrastructure owned or controlled by the MDC.

Schedule: Complete as necessary

BMP #3-5: Develop record keeping system for IDDE tracking

Description: Maintain a record of illicit discharge abatement activities.

MDC will create a record keeping system for IDDE tracking that will include, at a minimum: location (identified with an address or latitude and longitude), description, date(s) of inspection, sampling data (if applicable), action(s) taken, date of removal or repair and responsible party(ies). This information will be included in the Annual Report.

Measurable Goal: IDDE tracking spreadsheet and SSO Inventory developed by deadlines.

Schedule: Complete

BMP #3-6: Address IDDE in areas with pollutants of concern

Description: For waters for which Phosphorus, Nitrogen, or Bacteria is a Stormwater Pollutant of Concern, the IDDE program shall give highest priority for the IDDE program in areas with the highest potential to discharge bacteria, phosphorus, and nitrogen to the MS4 in order to address septic system failures. Such areas shall be identified based on assessment of the following criteria: historic on-site sanitary system failures, proximity to bacteria impaired waters, low infiltrative soils, and shallow groundwater. The MS4 General Permit requires the following be included in the Annual Report: Summary of the program, the number of areas identified with failing systems, actions taken by the permittee to respond to and address the failures, and the anticipated pollutant reduction.

Measurable Goal: COH and MDC shall coordinate efforts to comply with this BMP 3-6 to address septic system failures, if required by the Department of Health and Human Services (HSS) Environmental Health Division, in accordance with the divisions of responsibilities discussed in BMP 3-1.

Schedule: December 31, 2026

BMP #3-7: Develop and maintain an inventory identifying all known locations where Sanitary Sewer Overflows have discharged to the MS4 within the previous five years

Description: MDC will develop an inventory of all known locations where Sanitary Sewer Overflows (SSOs) have discharged to the MS4 within the previous five years. This shall include SSOs resulting during dry or wet weather, from inadequate conveyance capacities, or where interconnectivity of the storm and sanitary sewer infrastructure allows for communication of flow between the systems. The inventory of all identified SSO shall indicate:

- Location (approximate street crossing/address and receiving water if any);
- A clear statement of whether the discharge entered a surface water directly or entered the MS4;
- Date(s), and time(s) of each known SSO occurrence (i.e. beginning and end of any known discharge);
- Estimated volume(s) of the occurrence;
- Description of the occurrence indicating known or suspected cause(s);
- Mitigation and corrective measures completed with dates implemented, and
- Mitigation and corrective measures planned with implementation schedules.

MDC will provide written notice to the DEEP within five days of becoming aware of the SSO occurrence and shall include the information in the updated inventory. The notice shall contain all of the information listed above. The SSO inventory will be updated and included in the Annual Report, including the status of mitigation and corrective measure implemented to address the SSO.

Measurable Goal: Inventory developed. Inventory updated upon occurrence but at least annually and included in the Annual Report.

Schedule: The inventory is completed and updated annually in the Annual Report throughout the permit term.

Section 4

Control Measure 4: Construction Site Runoff Control

Control Measure 4 requires implementation and enforcement of a program to control stormwater discharges to the MS4 associated with land disturbance or development (including re-development) activities from sites (as defined in the DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities) with one acre or more of soil disturbance, whether considered individually or collectively as part of a larger common plan.

MDC shall, as necessary, apply the COH's regulations and ordinances to meet the requirements of the MS4 General Permit and the SWMP related to Construction Site Runoff Control on MDC Construction Projects and shall follow BMPs to reduce pollutants in stormwater runoff from construction activities.

BMP #4-1: Implement, upgrade and enforce COH land use regulations or other legal authority to meet requirements of MS4 General Permit

BMP #4-1a: Implement, upgrade (as necessary) and enforce COH land use regulations

Description: Implement, upgrade (if necessary) and enforce COH land use regulations by ordinance, bylaw, regulation, standard condition of approval or other appropriate legal authority that requires:

- Developers, construction site operators, or contractors to maintain consistency with the Guidelines for Soil Erosion and Sedimentation (E&S) Control, as amended, the Connecticut Stormwater Quality Manual, and all Stormwater discharge permits issued by the DEEP within the municipal boundary pursuant to CFS 22a-430 and 22a-430b;
- The implementation of additional measures to protect/improve water quality (in addition to the above requirements) as deemed necessary by the municipality or institution;
- Inspection, surveillance and monitoring procedures necessary to determine compliance with COH regulations, ordinances, or programs related to the management of the MS4 by the MS4 operators;
- The owner of a site seeking development approval from the COH to provide and comply with a long term maintenance plan and schedule to ensure the performance and pollutant removal efficiency of privately-owned retention ponds, detention ponds and other Stormwater basins that discharge to or receive discharge from the COH's MS4;

Measurable Goal: MDC shall, as necessary, apply the COH's regulations and ordinances to meet the requirements of the MS4 General Permit and the SWMP related to Construction Site Runoff Control on MDC Construction Projects.

Schedule: Complete

BMP #4-1b: Establish interagency or inter-jurisdictional agreements

Description: Establish interagency or inter-jurisdictional agreements (Memorandums of Understanding (MOUs)) to control the contribution of pollutants between the MDC's and COH's MS4 and MS4s owned and operated by others. Interconnected MS4 operators that have been identified also potentially include various state properties and the Connecticut Department of Transportation (DOT).

Measurable Goal: An MOU inter-jurisdictional agreement was established by MDC and COH to control the contribution of pollutants between the MDC's owned MS4 and COH's owned MS4 and by others.

Schedule: Completed

BMP #4-2: Develop and implement a plan outlining interdepartmental coordination of site plan review and approval

Description: Develop and implement a plan outlining how MDC and COH departments and boards with jurisdiction over the review, permitting, or approval of land disturbances and development projects within the MS4 will coordinate their functions with one another.

Measurable Goal: Plan developed and implemented the MOU developed by MDC and COH.

Schedule: Completed

BMP #4-3: Review site plans for stormwater quality concerns

Description: Conduct site plan reviews that incorporate consideration of stormwater controls or management practices to prevent or minimize impacts to water quality.

Measurable Goals: MDC shall, upon request from the COH, review site plans where there is a potential to increase the total flow to be received through MDC infrastructure.

Schedule: Completed

BMP #4-4: Conduct Site Inspections

Description: Conduct site inspection(s) and enforcement if necessary to assess the adequacy of the installation, maintenance, operation, and repair of construction control measures and where allowed, post construction control measures.

Measurable Goal: MDC may perform site inspection where there is a potential to increase the total flow to be received through the MS4 to MDC infrastructure.

Schedule: Complete

BMP #4-5: Consideration of public input

Description: Implement a procedure for receipt and consideration of information submitted by the public concerning proposed and ongoing land disturbance and development activities. Currently projects requiring approval by a land use agency or commission is presented at a COH public meeting. Projects not presented at a public meeting will be posted to the COH's website and a contact name (with phone number, address, and email) to whom the public can send comments will be provided.

Measurable Goals: Public meetings held by COH's Planning, Zoning and Inland Wetlands Agency for eligible projects (COH Annual Report will provide number of meetings held). MDC shall participate in public meetings upon request from the COH.

Schedule: Completed

BMP #4-6: Notify construction site operators of the requirements for registration under "General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities"

Description: Develop a procedure for notifying developers and contractors of their potential obligation to obtain authorization under the DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities with a provision in the notification informing the developer/contractor of their obligation to provide a copy of the Stormwater Pollution Control Plan to the COH upon request.

COH shall be responsible for developing a procedure for notifying developers and contractors of their potential obligation to obtain authorization under the DEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities with a provision in the notification informing the developer/contractor of their obligation to provide a copy of the Stormwater Pollution Control Plan to the permittees upon request.

Measurable Goal: COH to provide flyers provided in 100% of preconstruction meetings and land use application reviews.

Schedule: Completed

BMP #4-7: Document compliance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards for all new or increased discharges to High Quality Waters from the MS4

Description: On or before thirty (30) days prior to the commencement of a new or increased discharge to a High Quality Waters from the MS4, document compliance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards, as amended. Before commencing any new or increased discharge, identify in its SWMP, the control measures to be implemented to ensure compliance with anti-

degradation provisions and the terms of the MS4 General Permit. At a minimum, evaluate and implement to the Maximum Extent Practicable practices which will prevent the discharge of the Water Quality Volume to a surface water body or other practices necessary to protect and maintain designated uses and meet standards and criteria contained in the Water Quality Standards.

Measurable Goals: COH and MDC shall coordinate as necessary to achieve BMP 4-7 under the SWMP.

Schedule: Completed

BMP #4-8: Demonstrate no new or increased discharges to Impaired Waters from the MS4

Description: The MS4 General Permit does not allow increased discharges from the MS4 to impaired waters listed in categories 5 or 4b of the most recent Connecticut Integrated Water Quality Report of waters listed pursuant to Clean Water Act section 303(d) and 305(b) unless demonstrated that there is no net increase in loading by the MS4 to the impaired water of the pollutant(s) for which the waterbody is impaired. Demonstrate no net increase by either:

- Documenting that the pollutant(s) for which the waterbody is impaired is not present in the MS4's discharge and retain documentation of this finding with the SWMP; or
- Documenting that the total load of the pollutant(s) of concern from the MS4 to any impaired portion of the receiving water will not increase as a result of the activity and retain documentation of this finding in the Plan. Compliance with the requirements for Runoff Reduction and Low Impact Development measures for new development and redevelopment in Sections 6(a)(5)(A) and (B) shall be considered as demonstrating no net increase. Requirements for discharges to impaired waters are included in Section 6(k) of the MS4 General Permit.

Measurable Goals: Zero increased discharges from MS4 to Impaired Waters

Schedule: COH and MDC will coordinate as necessary to achieve BMP 4-8.

Section 5

Control Measure 5: Post-construction Stormwater Management in New Development and Redevelopment

Control Measure 5 requires a program to address stormwater runoff from new or re-development projects that disturb one or more acres of land. The following BMPs will be established by the COH for new development and redevelopment will be implemented to fulfill the requirements of Control Measure 5:

BMP #5-1: Establish legal authority and guidelines regarding low impact development (LID) and runoff reduction in site development planning

Description: Establish legal authority as outlined below:

- Establish through zoning and/or sub-division regulations, to the MEP, that a developer or contractor seeking the COH's approval shall consider the use of low impact development (LID) and runoff reduction site planning and development practices prior to the consideration of other practices in the COH's land use regulations, guidance, or construction project requirements to meet or exceed those LID and runoff reduction practices identified in the Stormwater Quality Manual and include the following standards:
 - Retain on-site half the water quality volume for the site for redevelopment of sites that are currently developed with Directly Connected Impervious Area (DCIA) of forty percent or more.
 - Retain the water quality volume for the site for new development and redevelopment of sites with less than forty percent DCIA.
 - An alternate retention/treatment standard as outline in Section (6)(a)(5)(B)(i)-(ii) of the MS4 General Permit in cases where the entire amount cannot be retained.
- Identify and, where appropriate, reduce or eliminate existing local regulatory barriers to implementing LID and runoff practices to the MEP which may include subdivision regulations, zoning regulations, the Road and Drainage Standards, or infrastructure specifications that address minimal dimensional criteria for the creation of roadways, parking lots, and other DCIA.
- Consider the following watershed protection elements to manage the impacts of stormwater on receiving waters:
 - Minimize the amount of impervious surfaces (roads, parking lots, roofs, etc.) within the City of Hartford by minimizing the creation, extension, and widening of parking lots, roads, and associated development and encourage the use of LID or green infrastructure practices.
 - Preserve, protect, create and restore ecologically sensitive areas that provide water quality benefits and serve critical watershed function. These areas may

- include, but are not limited to: riparian corridors, headwaters, floodplains, and wetlands.
- Implement Stormwater management practices that prevent or reduce thermal impacts to streams, including requiring vegetated buffers along waterways, and disconnecting discharges to surface waters from impervious surfaces such as parking lots.
 - Seek to avoid or prevent hydromodification of streams and other waterbodies caused by development, including roads, highways and bridges.
 - Implement standards to protect trees, and other vegetation with important evapotranspirative qualities.
 - Implement policies to protect native soils, prevent topsoil stripping, and prevent compaction of soils.

Measurable Goal: By deadline: 1) COH shall establish legal authority 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.

Schedule: The COH established legal authority. Prior to implementing legal authority, consider the elements of Section (6)(a)(5)(A) of the MS4 General Permit during regular reviews.

BMP #5-2: Enforce LID/runoff reduction requirements for development and redevelopment projects double check this matches Registration BMPs, not in template

Description:

The COH will require runoff reduction/low impact development (LID) measures be used by developers in accordance with Section (6)(a)(5)(A)(i)&(B) of the MS4 General Permit:

- Retain on-site half the water quality volume for the site for development or redevelopment of sites that are currently developed with DCIA of forty percent or more. In cases where this entire amount cannot be retained, the COH shall require the developer to:
 - Retain runoff volume to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.
 - Require additional Stormwater treatment for sediment, floatables and nutrients for the volume above that which can be retained up to the water quality volume.
 - If the runoff reduction cannot be met, the developer must:
 - Submit a report detailing factors limiting the capability of achieving this goal for the COH's review. The report shall include:
 - The measures taken to maximize runoff reduction practices on the site;
 - The reasons why those practices constitute the maximum extent achievable;

- The alternative retention volume;
 - Description of the measures used to provide additional Stormwater treatment above the alternative volume up to the water quality volume.
 - Propose a Stormwater mitigation project on another site or deposit a fee into the COH dedicated account to fund in whole or in part the retrofit of one or more existing DCIA. (Note: if DEEP has not established such fee, the fee should be set in amount approved by the COH as calculated based on an estimate of the cost necessary to implement the retrofit to achieve a similar amount of runoff reduction to the amount by which the actual amount of runoff reduced fails to achieve the requirement to retain the water quality volume for the site.
 - In the case of linear redevelopment projects (e.g. roadway reconstruction or widening) for the developed portion of the right-of-way:
 - For projects that may be unable to comply with the full retention standard, the alternative retention and treatment provisions may also be applied as specified above, or
 - For projects that will not increase the DCIA within a given watershed, the developer shall implement the additional Stormwater treatment measures referenced above but will not be required to retain half of the water quality volume.
- Retain the water quality volume for the site for development or redevelopment of sites with less than forty percent DCIA. If there are site constraints that would prevent retention of this volume on-site (e.g. brownfields, capped landfills, bedrock, elevated groundwater, etc.), the developer must:
 - Submit documentation for the COH's review and written approval, which:
 - Explains the site limitations;
 - Provides a description of the runoff reduction practices implemented;
 - Provides an explanation of why this constitutes the maximum extent achievable;
 - Offers an alternative retention volume; and
 - Provides a description of the measures used to provide additional Stormwater treatment for sediment, floatables, and nutrients above the alternative volume up to the water quality volume.
 - Propose a Stormwater mitigation project on another site or deposit a fee into a COH dedicated account to fund in whole or in part the retrofit of one or more existing DCIA. (Note: if DEEP has not established such fee, the fee should be set in amount approved by the COH as calculated based on an estimate of the cost necessary to implement the retrofit to achieve a similar amount of runoff reduction to the amount by which the actual amount of runoff reduced fails to achieve the requirement to retain the water quality volume for the site.

- Design, install, and maintain any such treatments consistent with the Stormwater Quality Manual.
- In the case of linear redevelopment projects that do not involve impervious surfaces (e.g. electrical transmission rights-of-way or natural gas pipelines), retention of the water quality volume is not required as long as the post-development runoff characteristics do not differ significantly from pre-development conditions.
- Consider the limitation of turf areas to those areas necessary to construct buildings, utilities, Stormwater management measures, parking, access ways, reasonable lawn areas and contouring necessary to prevent future site erosion.
- Maintain consistency with the Connecticut Stormwater Quality Manual, or if inconsistent, provide an explanation of why consistency is not feasible or practicable and information that the proposed plan of development is adequately protective.

Measurable Goal: **Percent** of Water Quality Volume retained.

Schedule: To be completed by the COH in accordance with MS4 General Permit.

BMP #5-3: Implement long-term maintenance plan for stormwater basins and treatment structures

Description: Implement a maintenance plan for ensuring the long-term effectiveness of retention or detention ponds and stormwater treatment structures or measures (such as swirl concentrators, oil/grit separators, water quality wetlands or swales, etc.) located in the Urbanized Area and those catchment areas of the City of Hartford with either DCIA of greater than 11% or which discharge to impaired waters and which discharge to, or receive Stormwater from, the MS4. This includes ponds and structures owned by the MDC or COH or those for which the COH maintains an easement or other legal authority pursuant to Section (6)(a)(4)(A)(i) of the MS4 General Permit. At a minimum, annually inspect such retention or detention ponds and structures. Remove accumulated sediment to restore full solids capture design capacity where found to be in excess of 50% design capacity.

Measurable Goal: Inspect 100% of MDC owned stormwater basins and treatment structures annually.

Schedule: Ongoing

BMP #5-4: DCIA mapping

Description: The COH shall calculate the Directly Connected Impervious Area (DCIA) that contributes Stormwater runoff to each of its MS4 outfalls (i.e. catchment areas) using mapping provided by the DEEP or other equivalent source. The DCIA calculation shall be based upon the criteria available through the DEEP Stormwater webpage. COH anticipates using the Option 1 method to calculate DCIA that is outlined in Appendix 3 of the *Connecticut Watershed Response Plan for Impervious Cover*. This option provides a general assumption for the type of land use related to the MS4 outfall

and only requires using the percent area of impervious cover (IC) calculated for the City of Hartford. Option 1 assumes connection between IC and DCIA in a contributing area that is mostly storm sewered with curb and gutter, and residential rooftops connected to the MS4. The equation to apply is:

$$\text{DCIA}\% = 0.1(\% \text{IC})^{1.5}$$

Document the progress of this task until its completion in the Annual Report and revise the DCIA estimate as development, redevelopment, or retrofit projects effectively add or remove DCIA to the MS4.

Measurable Goal: COH will calculate the Directly Connected Impervious Area (DCIA) that contributes Stormwater runoff to each of the MS4 outfalls (i.e. catchment areas) using mapping provided by the DEEP or other equivalent source.

COH and MDC agree to contribute information to the Joint MS4 Committee or its consultant necessary to facilitate compliance with this BMP 5-4

Schedule: To be determined by the COH.

BMP #5-5: Address post-construction issues in areas with pollutants of concern

Description: For discharges to impaired waters for which Nitrogen, Phosphorus or Bacteria is a Stormwater Pollutant of Concern, develop, fund, implement, and prioritize erosion and sediment problems noted during required inspections of retention or detention ponds and Stormwater treatment structures or measures (BMP #5-3) under the Retrofit program specified in the MS4 General Permit (BMP #6-3) to correct the problems in a specific timeframe and to establish short and long term maintenance. The MS4 General Permit requires that each annual report will include which problem areas were retrofitted, the cost of the retrofit, and the anticipated pollutant reduction

Measurable Goal: MDC shall be responsible to implement BMP 5-5 with regard to retention or detention ponds and stormwater treatment structures or measures covered by this BMP 5-5 that are owned by the MDC.

Schedule: COH will develop fund, implement, and prioritize erosion and sediment problems noted during required inspections of retention or detention ponds and stormwater treatment structures or measures under the Retrofit program.

BMP #5-6: Implement and maintain any control measures or conditions for New Discharge to an Impaired Water without an Established TMDL

Description: If a new discharge to an impaired water without a TMDL is authorized pursuant to the conditions of Section 3(b)(7) of the MS4 General Permit, implement and maintain any control measures or conditions on the site that enabled such authorization, and modify such measures or conditions as necessary to maintain such authorization. MDC and COH shall coordinate as necessary to achieve BMP 5-6 under the SWMP for all new discharges from the MS4 to an impaired water without a TMDL.

Measurable Goal: COH and MDC shall coordinate as necessary to achieve BMP 5-6 under the SWMP for all new discharges from the MS4 to an impaired water without a TMDL.

Schedule: Ongoing

BMP #5-7: Additional requirements for all new and existing discharges to a water with an Established TMDL or with a Pollutant Load Reduction specified within the TMDL

Description: If a new discharge to a water with a TMDL or with a pollutant load reduction established within the TMDL is authorized pursuant to the conditions of Section 3(b)(7) of the MS4 General Permit, follow the discharge requirements consistent with the applicable Wasteload Allocations, Load Allocations or Water Quality Targets for that TMDL. Implement BMPs as necessary to achieve the Waste Load Allocation, Load Allocation or Water Quality Targets specified within the TMDL (see Appendix D of the MS4 General Permit) for all existing Discharge to a Water with an Established TMDL or with a Pollutant Load Reduction specified within the TMDL. MDC and COH shall coordinate as necessary to achieve BMP 5-7 under the SWMP for all new discharges from the MS4 to an impaired water without a TMDL.

Measurable Goal: COH and MDC shall coordinate as necessary to achieve BMP 5-7 under the SWMP for all new discharge to a water with a TMDL or with a pollutant load reduction established within the TMDL

Schedule: Ongoing

Section 6

Control Measure 6: Pollution Prevention/Good Housekeeping for Municipal Operations

The goal of Control Measure 6, Pollution Prevention/Good Housekeeping for Municipal Operations, is preventing or reducing pollutant runoff and protecting water quality from all permittee-owned or –operated MS4s. The following BMPs for new development and redevelopment will be implemented to fulfill the requirements of Control Measure 6:

BMP #6-1: Continue formal employee training program

Description: Continue the formal employee training program developed under the 2004 MS4 General Permit to increase awareness of water quality related issues in management of its MS4. In addition to providing key staff with topical training regarding standard operating procedures and other activities necessary to comply with the provisions of the MS4 General Permit, include establishing an awareness of the general goals and objectives of the SWMP; identification and reporting of illicit discharges and improper disposal; and spill response protocols and respective responsibilities of involved personnel.

Measurable Goal: Required operational employees to be trained annually.

Schedule: Annually.

BMP #6-2: Implement MS4 property and operations maintenance:

Description: Maintain properties, parks, and other facilities that are owned, operated, or otherwise the legal responsibility to minimize the discharge of pollutants to its MS4. This BMP has been further broken out into sub-categories (BMPs #6-2a - #6-2f) for parks and open space, pet waste management, waterfowl management, buildings and facilities, vehicles and equipment, and leaf management described below.

BMP #6-2a: Minimize the discharge of pollutants to MS4 from parks and open space management

Description: Maintain Parks and open space so as to minimize the discharge of pollutants to the MS4. COH shall be responsible for maintaining properties, parks, and other facilities that are owned, operated, or otherwise the legal responsibility of the COH so as to minimize the discharge of pollutants to the MS4. MDC shall be responsible for implementing BMP 6-2a on any MDC owned or controlled properties. Such maintenance includes:

- Optimize the application of fertilizers by municipal employees or contractors on lands and easements for which it is responsible for maintenance.

- Develop and implement standard operating practices (SOPs) for the handling, storage, application, and disposal of pesticides and herbicides in compliance with applicable state and federal laws,
- Evaluate lawn maintenance and landscaping activities to promote water quality (reduced mowing frequencies, proper disposal of lawn clippings, and use of alternative landscaping materials like drought resistant and native plantings);
- Establish procedures for management of trash containers at parks (scheduled cleanings, sufficient number).
- Establish practices for the proper disposal of grass clippings and leaves at City-owned lands. Clippings shall be composted or otherwise appropriately disposed. Clippings should not enter the MS4 system or waters of the State.

Measurable Goals: MDC shall be responsible for implementing BMP 6-2a on MDC owned or controlled properties.

Schedule: Ongoing

BMP #6-2b: Minimize the discharge of pollutants to MS4 from pet waste management

Description: Manage Pet waste to minimize the discharge of pollutants to the MS4. MDC shall be responsible for implementing BMP 6-2b on any MDC owned or controlled properties. The COH shall be responsible for managing pet waste to minimize the discharge of pollutants to the MS4 on COH owned properties. Such management includes:

- Identify locations within the community where inappropriate pet waste management practices are immediately apparent and pose a threat to receiving water quality due to proximity and potential for direct conveyance of waste to its storm system and waters.
- In such areas, implement targeted management efforts such as public education and enforcement.
- Install educational signage, pet waste baggies, and disposal receptacles (or require carry-out) in City-owned recreational areas where dog walking is allowed.

The MS4 General Permit requires the following be documented in the Annual Report: compliance activities including information regarding the scope and extent of education, compliance, and enforcement efforts (including the number of violations pursued and fines levied or other enforcement taken).

Measurable Goals: COH shall be responsible for managing pet waste to minimize the discharge of pollutants to the MS4.

Schedule: Ongoing

BMP #6-2c: Minimize the discharge of pollutants to MS4 from waterfowl management

Description: Maintain waterfowl management so as to minimize the discharge of pollutants to the MS4. MDC shall be responsible for implementing BMP 6-2c on any MDC owned or controlled properties in Hartford. The COH shall be responsible for managing waterfowl to minimize the discharge of pollutants to the MS4 on COH owned properties. Such maintenance includes:

- Identify lands where waterfowl congregate and feeding by the public occurs;
- Install signage or use other targeted techniques to educate the public about the detrimental impacts of feeding waterfowl (including the resulting feces deposition) and discourage such feeding;
- Implement practices that discourage the undesirable congregation of waterfowl in these areas, or otherwise isolate the direct drainage from these areas away from its storm system and waters.

Measurable Goals: COH shall be responsible for maintaining waterfowl management efforts to minimize the discharge of pollutants to the MS4

Schedule: Ongoing

BMP #6-2d: Minimize the discharge of pollutants to MS4 from municipal buildings and facilities

Description: Maintain municipal buildings and facilities (schools under the jurisdiction of the permittee, City offices, police and fire stations, pools, parking garages and other permittee-owned or operated buildings or utilities) so as to minimize the discharge of pollutants to the MS4. MDC shall be responsible for implementing BMP 6-2d on any MDC owned or controlled properties in Hartford. The COH shall be responsible for managing BMP6-2d to minimize the discharge of pollutants to the MS4 on COH owned properties. Such maintenance includes:

- Evaluate the use, storage, and disposal of both petroleum and non-petroleum products;
- Ensure, through employee training, that those responsible for handling these products know proper procedures;
- Ensure that Spill Prevention Plans are in place, if applicable, and coordinate with the fire department as necessary;
- Develop management procedures for dumpsters and other waste management equipment;
- Sweep parking lots and keep areas surrounding the facilities clean to minimize runoff of pollutants; and
- Ensure that all interior building floor drains are not connected to the MS4. The MS4 General Permit does not authorize such discharges; wastewaters from interior floor drains must be appropriately permitted.

Measurable Goals: COH will follow the requirements of the BMP for COH-owned or controlled buildings and facilities.

MDC will follow the requirements of the BMP for MDC-owned owned or controlled buildings and facilities.

Schedule: Ongoing

BMP #6-2e: Minimize the discharge of pollutants to MS4 from municipal vehicle and equipment maintenance

Description: Maintain vehicles and equipment so as to minimize the discharge of pollutants to the MS4. MDC shall be responsible for implementing BMP 6-2e on any MDC owned or controlled properties in Hartford. The COH shall be responsible for managing BMP6-2e to minimize the discharge of pollutants to the MS4 on COH owned properties. Such maintenance includes:

- Establish procedures for the storage of vehicles;
- Require vehicles with fluid leaks to be stored indoors or in contained areas until repaired;
- Evaluate fueling areas for vehicles and if possible, place fueling areas under cover in order to minimize exposure;
- Establish procedures to ensure that vehicle wash waters are not discharged to the municipal storm sewer system or to surface waters. The MS4 General Permit does not authorize such discharges; wastewaters from interior floor drains must be appropriately permitted.

Measurable Goals: COH will follow the requirements of the BMP for COH-Fleet and equipment maintenance.

MDC will follow the requirements of the BMP for MDC-Fleet and equipment maintenance.

Schedule: Ongoing

BMP #6-2f: Minimize the discharge of pollutants to MS4 from leaf management

Description: Maintain leaf management so as to minimize the discharge of pollutants to the MS4. Establish and implement procedures to minimize or prevent the deposition of leaves in catch basins, streets, parking lots, driveways, sidewalks or other paved surfaces that discharge to the MS4. MDC shall be responsible for implementing BMP 6-2f on any MDC owned or controlled properties in Hartford. The COH shall be responsible for leaf management to minimize the discharge of pollutants to the MS4 on COH streets and owned properties this also applies to leaves collected by the COH.

Measurable Goals: MDC shall maintain leaf management on MDC properties so as to minimize the discharge of pollutants to the MS4, and with regard to any leaves collected by the MDC.

Schedule: Ongoing

BMP #6-3: Implement coordination with interconnected MS4s

Description: As part of the interagency agreements established pursuant to Section (6)(a)(4)(A)(i)(e) and BMP #4-1, coordinate with operators of interconnected MS4s (such as neighboring municipalities, institutions and DOT) regarding the contribution of potential pollutants from the storm sewer systems, contributing land use areas and Stormwater control measures in the respective MS4s. This same coordination shall be conducted regarding operation and maintenance procedures utilized in the respective system. MDC and COH shall coordinate together, and with other agencies jointly, as necessary to fulfill the requirements of the BMP, especially prior to approving or modifying outside connections to the MS4 serving Hartford.

Measurable Goals: COH and MDC shall coordinate together, and with other agencies jointly, as necessary to fulfill the requirements of the BMP, especially prior to approving or modifying outside connections to the MS4 serving Hartford.

Schedule: Complete between MDC and COH. DOT is not entering agreements with municipalities.

BMP #6-4: Develop and implement a program to control other sources of pollutants to the MS4

Description: Develop and implement a program to control the contribution of pollutants to its MS4 from commercial, industrial, municipal, institutional or other facilities, not otherwise authorized by permit issued pursuant to Section 22a-430 or 22a-430b of the Connecticut General Statutes. MDC and COH shall coordinate as necessary to develop and implement a program to conduct public education and outreach to commercial, industrial, municipal, institutional or other facilities not otherwise authorized by permit, regarding compliance with the requirements of the Permit.

Measurable Goals: Program developed and implemented to control the contribution of pollutants to MS4.

Schedule: Ongoing

BMP #6-5: Additional measures for discharges to impaired waters

- *Description:* Implement additional measures for discharges to impaired waters (with or without a TMDL). MDC shall be responsible for implementing any additional measures for discharges from MDC-owned or operated land required by BMP 6-5 of the SWMP. COH shall be responsible for implementing any additional measures for discharges from COH owned or operated land required by BMP 6-5 of the SWMP as follows:
 - For waters for which Nitrogen or Phosphorus is a Stormwater Pollutant of Concern: implement a turf management practices and procedures policy which includes, but is not limited to, procedures for proper fertilizer application and the planting of native plant materials to lessen the amount of turf area requiring

mowing and the application of chemicals. Each Annual Report shall discuss the actions taken to implement this policy with an estimate of fertilizer and turf reduction.

- For waters for which Bacteria is a Stormwater Pollutant of Concern:
 - On lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems): Develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) within a specific timeframe.
 - On lands, prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations.

Each Annual Report shall identify problem areas for which a retrofit or source management program were developed, the location of the closest outfall monitored in accordance with Section 6(i) of the MS4 General Permit, the cost of such retrofit or program, and the anticipated pollutant reduction and actions taken to implement a program to manage geese and waterfowl populations.

Measurable Goals: MDC shall be responsible for implementing any additional measures for discharges from MDC-owned or operated land required by BMP 6-5 of the SWMP.

Schedule: Ongoing

BMP #6-6: Track projects that disconnect DCIA

Description: An area of DCIA is considered disconnected when the appropriate portion of the Water Quality Volume has been retained in accordance with the requirements of Section (6)(a)(5)(B)(i) or (ii) of the MS4 General Permit. This may be accomplished through retrofits or redevelopment projects (public or private) that utilize Low Impact Development (LID) and runoff reduction measures or any other means by which stormwater is infiltrated into the ground or reused for other purposes without a surface or storm sewer discharge. A redevelopment project, as that term is used here and in Section 6(a)(5)(B)(i) and (ii) of the MS4 General Permit, is one that modifies an existing developed site for the purpose of enhancing, expanding or otherwise modifying its function or purpose. A retrofit project is one that modifies an existing developed site for the primary purpose of disconnecting DCIA. The DCIA calculation performed pursuant to BMP #5-4 and Section 6(a)(5)(C) of the MS4 General Permit shall serve as the baseline for the required retrofit program.

DCIA Disconnection Tracking: track on an annual basis the total acreage of DCIA that is disconnected as a result of redevelopment or retrofit projects within the MS4.

Tracking the disconnection of DCIA means documenting within a given redevelopment or retrofit project the amount of existing DCIA that is modified such that it is disconnected. This tracking may include disconnections of DCIA from redevelopment or retrofit projects implemented as early as July 1, 2012 (five (5) years prior to the effective date of the MS4 General Permit). Any redevelopment or retrofit of an existing developed site, whether public (municipal, state or federal) or private (residential, commercial or industrial) shall be included in this tracking. Note: Tracking the disconnection of DCIA does not apply for sites that were previously undeveloped as

there were no existing impervious surfaces on those sites. COH shall be responsible for tracking projects that disconnect DCIA that contributes Stormwater runoff to each of the MS4 outfalls (i.e. catchment areas) with the input of the Joint MS4 Committee.

Measurable Goals: COH shall be responsible for tracking projects that disconnect DCIA that contributes Stormwater runoff to each of the MS4 outfalls (i.e. catchment areas) with the input of the Joint MS4 Committee.

Schedule: Ongoing.

BMP #6-7: Develop and implement infrastructure repair/rehabilitation program

Description: Continue to repair and rehabilitate its MS4 infrastructure in a timely manner to reduce or eliminate the discharge of pollutants from the MS4 to receiving waters. Utilize the information developed pursuant to Section (6)(a)(6)(A)(v) of the MS4 General Permit, to fund and implement a program for repairing, retrofitting or upgrading conveyances, structures and outfalls of the MS4. Update program based on new information on outfalls discharging pollutants, impaired waters, inspection observations or observations made during outfall mapping pursuant to BMP #3-4 and Section 6(a)(3)(C) of the MS4 General Permit.

MDC shall be responsible for implementing the infrastructure repair/rehabilitation program and complying with the requirements of BMP 6-7 throughout the portions of the MS4 infrastructure owned or controlled by MDC.

COH shall be responsible for implementing the infrastructure repair/rehabilitation program and complying with the requirements of BMP 6-7 throughout the portions of the MS4 infrastructure owned or controlled by COH.

The Parties shall initially prioritize implementing the infrastructure repair/rehabilitation program on their own infrastructure for a period of two (2) years following execution of this MOU, while the Parties work together to determine ownership where the ownership and control of the MS4 infrastructure that is currently unknown or disputed. Following that initial two (2) year period, or if emergency repairs are required in the interim, MDC shall be responsible for implementing an infrastructure repair/rehabilitation program and complying with the requirements of BMP 6-7 with the input of the Joint MS4 Committee for all areas where the ownership and control of the MS4 infrastructure remain unknown or disputed, and the Parties will share the costs equally (50/50)

Measurable Goals: COH and MDC shall initially prioritize implementing the infrastructure repair/rehabilitation program on their own infrastructure for a period of two (2) years following execution of this MOU, while the Parties work together to determine ownership where the ownership and control of the MS4 infrastructure that is currently unknown or disputed. Following that initial two (2) year period, or if emergency repairs are required in the interim, MDC shall be responsible for implementing an infrastructure repair/rehabilitation program and complying with the requirements of BMP 6-7 with the input of the Joint MS4 Committee for all areas where the ownership and control of the

MS4 infrastructure remain unknown or disputed, and the Parties will share the costs equally (50/50).

Schedule: Ongoing

BMP #6-8: Develop plan to identify/prioritize retrofit projects

Description: Retrofit Planning: develop a plan to identify and prioritize DCIA disconnection projects. Considerations for prioritizing retrofit projects may include outfall catchment areas that discharge to impaired waters, areas within the Urbanized Area of the MS4, or catchment areas with greater than eleven percent (11%) DCIA. COH shall select from the list of prioritized projects those that it will implement to meet the goals described in the MS4 General Permit.

Measurable Goal: COH shall coordinate as necessary to implement retrofit projects according to the plan to comply with this BMP #6-8b. COH shall be responsible for implementing such retrofit projects to disconnect at least 1% of DCIA per year.

Schedule: Ongoing

BMP #6-9: Develop/implement street sweeping program

Description: Establish and implement procedures for sweeping City-owned or – operated streets and parking lots including:

- All streets and parking lots within the Urbanized Area of the MS4, and outside the Urbanized Area within the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters, shall be inspected, swept and/or cleaned (as necessary) with a minimum frequency of once per year in the spring following the cessation of winter maintenance activities (i.e. sanding, deicing, etc.).
- More frequent inspections, cleaning and/or sweeping of targeted areas determined by the City to have increased pollutant potential based on the presence of active construction activity or other potential pollutant sources.
- Identify such potential pollutant sources based upon surface inspections, catch basin cleaning or inspection results, land use, winter road deicing and/or sand application, impaired or TMDL waters or other relevant factors as determined by the City.
- If wet dust suppression is conducted, the use of water should be minimized such that a discharge of excess water to surface waters and/or the storm sewer system does not occur.
- For streets and parking lots outside the Urbanized Area and outside the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters, including any rural uncurbed streets and parking lots with no catch basins, either meet the minimum frequencies above, or develop and implement an inspection, documentation and targeted sweeping

and/or cleaning plan within one (1) year of the effective date of the general permit, and submit such plan with its year one Annual Report.

- For new and redeveloped municipal parking lots, evaluate options for reducing stormwater runoff to surface waters and/or the storm sewer system by installing pervious pavements and/or other measures to promote sheet flow of stormwater.
- Ensure the proper disposal of street sweepings in accordance with DEEP policies, guidance and regulations. Sweepings shall not be discharged back into the storm drain system and/or surface waters.
- Document results of sweeping program in its Annual Report including, at a minimum:
 - A summary of inspection results,
 - Curb miles swept, dates of cleaning,
 - Volume or mass of material collected, and method(s) of reuse or disposal.
 - Any alternate sweeping plan for rural uncurbed streets and any runoff reduction measures implemented.

Measurable Goals: MDC will identify and inform COH of areas with elevated levels of catch basin debris as provided in the MDC catch basin SOP. MDC will provide COH with a copy of its current catch basin SOP and, as appropriate, any updates or amendments of the SOP. COH will evaluate its street sweeping program based on input provided by the MDC concerning areas with elevated levels of catch basin debris and MDC will evaluate its catch basin cleaning program based on input provided by the COH.

Schedule: COH and MDC are encouraged to coordinate the street sweeping and catch basin cleaning programs to maximizing the effectiveness of each. MDC will sweep all MDC-owned facilities at least once annually.

BMP #6-10: Develop/implement catch basin cleaning program

Description: Conduct routine cleaning of all catch basins and track catch basin inspection observations. Utilizing information compiled through its inventory of catch basins, operational staff and public complaints, optimize routine cleaning frequencies for particular structures or catchment areas as follows to maintain acceptable sediment removal efficiencies:

- MDC shall be responsible for conducting a catch basin cleaning program that complies with BMP 6-10 for all stormwater system catch basins throughout the portions of the MS4 infrastructure owned or controlled by the MDC. MDC shall comply with its current catch basin SOP to clean at least 3,500 catch basins per year and inspect the remaining catch basins at least once per year. Optimal cleaning frequency will be determined based on the requirements of Section 6(a)(6)(D)(ii)(f) of the MS4 General Permit.
- COH shall be responsible for conducting a catch basin cleaning program that complies with BMP 6-10 for all stormwater system catch basins throughout the portions of the MS4 infrastructure owned or controlled by the COH. Optimal cleaning frequency will be determined based on the requirements of Section 6(a)(6)(D)(ii)(f) of the MS4 General Permit.

- For all catch basins where the ownership and control of catch basins is disputed or yet to be determined, MDC shall be responsible for implementing the catch basin cleaning program that complies with BMP 6-10, with the input and oversight of the Joint MS4 Committee with the costs of such cleaning shared based on the Parties respective percentage of ownership.
- MDC shall share information on its performance of the activities required by this BMP with COH for the Annual Report

Measurable Goals: MDC shall comply with its current catch basin SOP to clean at least 3,500 catch basins per year and inspect the remaining catch basins at least once per year.

Schedule: Ongoing

BMP #6-11: Develop/implement snow management practices

Description: Implement snow management practices including Deicing Material Management and Snow and Ice Control Practices.as described below.

Measurable Goals: MDC shall be responsible for developing and implementing snow management practices at all MDC owned or controlled properties

Schedule: Ongoing

BMP #6-11a: Deicing Material Management

Description: Develop and implement standard operating practices (SOPs) for the use, handling, storage, application, and disposal of deicing products such as salt and sand to minimize exposure to stormwater including:

- Consider:
 - Means to minimize the use and optimize the application of chloride-based or other salts or deicing product (while maintaining public safety)
 - Opportunities for use of alternative materials;
- For any exterior containers of liquid deicing materials installed after July 1, 2017,, provide secondary containment of at least 110% of the largest container or 10% of the total volume of all containers, whichever is larger, without overflow from the containment area.

Measurable Goals: SOPs for the use, handling, storage, application, and disposal of deicing products developed and implemented by deadline

Schedule: Ongoing

Section 7

Monitoring Requirements

Comply with the screening and monitoring requirements of Section 6(i) of the MS4 General Permit and conduct Impaired Waters Outfall Investigation and Monitoring. Beginning the second year of the permit (2018), the Annual Report shall report on the progress of the impaired waters investigation and monitoring program. The Annual Report shall also include a listing of the outfalls screened during the year, the number of outfalls identified for follow-up investigation, the progress of drainage area investigations, a description of the control measure implementation for the different impairments, identification of the six outfalls to be monitored and the results of the prioritized outfall monitoring.

BMP #7-1: Screen all Outfalls that Discharge to Impaired Waters:

Description: Utilizing the list and mapping of all outfalls that discharge to impaired waters prepared pursuant to BMPs #3-2 and #7-2, and Section 6(a)(3)(C) of the MS4 General Permit, screen these outfalls for the pollutant identified as the pollutant of concern for the impairment as follows:

- **Outfall Screening for Phosphorus and Nitrogen:** Screen outfalls from the MS4 identified in Section 6(a)(3)(C) that discharge to impaired waters for which phosphorus or nitrogen is the pollutant of concern. A sample may be taken at the outfall during any rain event that results in a discharge from the outfall in accordance with the monitoring protocols described below. This screening shall be conducted for all such outfalls at least once during the term of the MS4 General Permit in accordance with the following:
 - **Nitrogen Screening:** A portable nitrogen meter may be used to take a field reading during the wet weather discharge. If the nitrogen reading exceeds the following threshold, the outfall shall be identified for follow-up investigation. Total Nitrogen > 2.5 mg/l
 - **Phosphorus Screening:** A portable phosphorus meter may be used to take a field reading during the wet weather discharge. If the phosphorus reading exceeds the following threshold, the outfall shall be identified for follow-up investigation. Total Phosphorus > 0.3 mg/l
- **Outfall Screening for Bacteria:** Screen outfalls from the MS4 that discharge to impaired waters for which bacteria is the pollutant of concern. A sample may be taken at the outfall during any rain event that results in a discharge from the outfall in accordance with the monitoring protocols described below. The sample shall be analyzed for the following:
 - E. coli and Total Coliform (col/100ml) (for discharges to Class AA, A and B surface waters)
 - Fecal coliform and Enterococci (col/100ml) (for discharges to Class SA and SB surface waters)

- The outfall shall be identified for follow-up investigation as described below if any of the following conditions apply:
 - E. coli >235 col/100ml for swimming areas and >410 col/100ml for all others, or
 - Total Coliform >500 col/100ml,
 - Fecal coliform >31 col/100ml for Class SA and >260 col/100ml for Class SB, or
 - Enterococci >104 col/100ml for swimming areas and >500 col/100ml for all others.
- If it can be documented 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 Screening for Other Pollutants of Concern: Screen outfalls from the MS4 identified in Section 6(a)(3)(C) that discharge to impaired waters for which pollutants other than phosphorus, nitrogen or bacteria are listed as the pollutant of concern. Take a sample at the outfall and in-stream immediately upstream or otherwise outside the influence of the outfall. The sample may be taken during any rain event that results in a discharge from the outfall in accordance with the monitoring protocols described below. These samples shall be analyzed for turbidity. A field turbidity meter may be used for these analyses. If the outfall sample is more than 5 NTU greater than the in-stream sample, the outfall shall be identified for follow-up investigation.

Adhere to the following Stormwater Monitoring Procedures from Section 6(i)(2) of the MS4 General Permit:

- Wet Weather Outfall Monitoring: Samples shall be collected from discharges resulting from any rain storm that produces a discharge from the outfall(s) being monitored and that occurs at least 48 hours after any previous rain storm that produced a discharge from the outfall. Runoff events resulting from snow or ice melt alone cannot be used to meet these monitoring requirements. However, monitoring may be conducted during a rain event that may include insignificant amounts of snow or ice melt. Monitoring shall consist of a single grab sample taken within the first six (6) hours of discharge from the outfall.
- Rain Event Information: The following information shall be collected for the rain events during which monitoring is conducted:
 - The date, temperature, time of the start of the discharge, time of sampling, and magnitude (in inches) of the rain event sampled.
 - The duration between the rain event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) rain event.

- **Test Procedures:** Unless otherwise specified in the MS4 General Permit, all pollutant parameters shall be tested according to methods prescribed in Title 40, CFR, Part 136 (1990). Laboratory analyses must be consistent with Connecticut Reasonable Confidence Protocols.

Wet weather sampling data may be used for an outfall pursuant to sampling conducted under the MS4 General Permit or other appropriate wet weather sampling, and it will not be required to screen that outfall under this general permit.

Measurable Goals: MDC shall be responsible for screening all stormwater outfalls throughout the portions of the MS4 infrastructure owned or controlled by the MDC as required to comply with BMP 7-1. The information will be shared with the COH for the Annual Report.

The Parties shall initially prioritize compliance with this Control Measure on their own MS4 outfalls for a period of two (2) years following execution of this MOU, while the Parties work together to determine ownership where the ownership and control of MS4 outfalls that are currently unknown or disputed. If the ownership and control of any MS4 outfalls is disputed or yet to be determined two years after the effective date of the Permit, the Parties will share the cost equally (50/50) for compliance with this Control Measure. The Joint MS4 committee will coordinate which Party will perform the work related to each MS4 outfall.

Schedule: Ongoing

BMP #7-2: Inventory and mapping of discharges to impaired waters:

Description: MS4s that discharge into impaired waters, as identified in Section 6(k) of the MS4 General Permit, must create an inventory of all outfalls that discharge to impaired waters utilizing the list and mapping prepared pursuant to BMP #3-2 and Section 6(a)(3)(C) of the MS4 General Permit.

Measurable Goals: COH and MDC shall jointly be responsible for creating and maintaining an inventory and mapping of all outfalls that discharge to impaired waters as required to comply with BMP 7-2.

Schedule: Ongoing

BMP #7-3: Follow-up Investigations of drainage areas:

Description: Investigate activities within the drainage area contributing to each outfall identified for follow-up investigation under BMP #7-1. This investigation shall include factors potentially associated with the cause of the related impairment. Such factors may include: land use or development patterns; business or commercial activities; industrial activities; DCIA; natural contributors; potential MS4 maintenance issues; residential activities; and any other activities identified by COH as potentially contributing to the related impairment.

In each outfall drainage area identified for follow-up investigation under BMP #7-1, implement a BMP program focusing on the impaired waters provisions of each of the

Control Measures in Section 6(a) of the MS4 General Permit and on the findings of the drainage area investigation.

Measurable Goals: MDC shall be responsible to investigate activities within the drainage area contributing to each stormwater outfall throughout the portions of the MS4 infrastructure owned or controlled by MDC and identified for follow-up investigation under BMP #7-1 in accordance with the IDDE Program, and in according to the division of responsibilities described in this MOU under BMP 3-1.

Schedule: Ongoing

BMP #7-4: Annual monitoring of priority outfalls:

Description: Once outfall screening has been completed for at least half of the outfalls identified pursuant to BMP #7-2 and Section 6(i)(1) of the MS4 General Permit, utilize the screening results to select six (6) of the highest contributors of any of the pollutants of concern. These six outfalls shall be sampled annually for the appropriate pollutant of concern. If more than one pollutant of concern is identified for any monitored outfall (i.e. more than one impairment), all of these pollutants shall be monitored.

Measurable Goals: MDC shall be responsible for complying with BMP 7-4 on any MDC outfalls identified pursuant to BMP #7-2 as one of the six (6) of the highest contributors of any of the pollutants of concern.

Schedule: Ongoing

Section 8

Water Quality Protection for Receiving Waters

One of the goals of the SWMP is to protect water quality in the MS4's receiving waters. This section lists the receiving waters in Hartford and addresses the MS4 General Permit requirements for discharges to impaired waters or water bodies subject to a pollutant load reduction within a TMDL and discharges to high quality waters.

8.1 Receiving Waters

The receiving waters of the MDC's MS4 discharges are described in Table 2 below.

Table 2: MDC MS4 Receiving Waters

Receiving Waterbody	Watershed ID	Impaired?
Connecticut River	4000-00_03	Yes
Park River	4400-00_01	Yes
South Branch Park River	4400-00_01	Yes
South Branch Park River	4400-00_02	Yes
North Branch Park River	4404-00_01	Yes
North Branch Park River	4404-00_02	Yes
Gully Brook	4400-00	No

8.2 Discharges to Impaired Waters or Waterbodies subject to a Pollutant Load Reduction within a TMDL

Section 3(b)(7) and Section 6(k) of the MS4 General Permit require meeting the identified criteria of the MS4 General Permit for discharges to impaired waters (with or without a TMDL), waters for which nitrogen, phosphorus, bacteria or mercury are stormwater pollutants of concern, or waters which have pollution load reductions specified within a TMDL.

The impaired waterbodies the MDC’s MS4 discharges into are described in Table 3 and the waterbodies with and established TMDL that the MDC’s MS4 discharges into are described in Table 4.

Table 3: MS4 Discharges to Impaired Waterbodies

Waterbody Name	305b ID	Impairment(s)	TMDL	Description
Connecticut River	CT4000-00_02	Bacteria	CT Statewide Bacteria	From northern most boundary of Hurd State Park, East Hampton, US to confluence with Reservoir Brook (adjacent to Gildersleeve Island), Portland.
Park River	CT4400-00_01	Bacteria	CT Statewide Bacteria	From mouth at Connecticut River, US to confluence with North Branch Park River, just DS of I84 crossing at opening of conduit (US of Willow Street crossing).
South Branch Park River	CT4400-01_01	Bacteria	CT Statewide Bacteria	From mouth at confluence with Park River, US to entrance of conduit (entire segment in pipe underground).
South Branch Park River	CT4400-01_02	Bacteria	CT Statewide Bacteria	From entrance of conduit (segment01), US to confluence with Piper and Trout Brooks, between railroad tracks and Route 173 (New Britain avenue).
North Branch Park River	CT4404-00_01	Bacteria	CT Statewide Bacteria	From mouth at confluence with Park River just DS of I84 crossing, US to entrance of conduit (entire segment in pipe) near Farmington Avenue, Hartford.
North Branch Park River	CT4404-00_02	Bacteria	CT Statewide Bacteria	From DS side of Farmington Avenue (at entrance of conduit), US to confluence with Wash Brook (just DS of confluence of Wash Brook and Beamans Brook), Bloomfield.

Table 4: MS4 Discharges to Waterbodies with Established TMDLs

TMDL	Pollutant	Waterbody Name
Statewide Bacteria TMDL	Bacteria	Connecticut River
Statewide Bacteria TMDL	Bacteria	Park River/ South Branch Park River
Statewide Bacteria TMDL	Bacteria	Park River/ North Branch Park River
A TMDL Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound	Nitrogen	Long Island Sound and contributing watersheds
Northeast Regional Mercury TMDL	Mercury	All Connecticut inland waters
Interim Phosphorous Reduction Strategy	Phosphorous	Certain CT Inland waters

8.3 Discharges to High Quality Waters

Section 3(b)(6) of the MS4 General Permit requires MDC to meet the identified criteria of the MS4 General Permit for discharges to high quality waters. High quality waters is defined as surface waters where the water quality is better than necessary to meet the minimum criteria established in the Connecticut Water Quality Standards for the applicable classification and related designated uses pursuant to Section 22a-426-1(36) of the Regulations of Connecticut State Agencies.

Section 9

SWMP Certification

Certification to be signed by chief elected officer or principal executive officer of the municipality:

"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."

Signature of Registrant/Authorized Representative

Scott Jellison, P.E.
Chief Executive Officer

Date: _____

Craig E Scott

Signature of Preparer (if different than above)

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

Date: 12/02/2025

Qualified Professional Certification:

According to the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems "Qualified professional engineer" includes the City Engineer.

"I hereby certify that I am a qualified professional engineer, as defined in the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems. I am making this certification in connection with a registration under such general permit, submitted to the Commissioner by the City of Hartford for an activity located at or within the City of Hartford. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of all information described in Section 3(b)(9)(A) of such general permit and on the standard of care for such projects, that I have made an affirmative determination in accordance with Section 3(b)(9)(B) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Nothing in this subsection shall be construed to authorize or require a qualified professional engineer to engage in any profession or occupation requiring a license under any other provision of the Connecticut General Statutes without such license.

Craig E Scott

Signature of Qualified Professional

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

Date: 12/02/2025

Appendix A

Table 5: Summary of BMPs by Minimum Control Measure

Table 5: Summary of BMPs by Minimum Control Measure

Minimum Control Measure 1: Public Education & Outreach				
BMP #	Task Description	Responsible Person/Dept.	Measurable Goal	Schedule
1-1	Implement Public Education Program	MDC / COH	MDC website includes stormwater information, post educational information on social media per MOU. An MOU has been developed between the MDC and COH to address coordination of the MS4 requirements	12/2025
1-2	Address education/outreach for pollutants of concern	MDC / COH	Post to social media addressing Stormwater Pollutants of Concern per MOU.	12/2025

Minimum Control Measure 2: Public Involvement/Participation				
BMP #	Task Description	Responsible Person/Dept.	Measurable Goal	Schedule
2-1	Comply with public notice requirements for the SWMP and Annual Reports	MDC EH&S	All required notices posted by deadline	12/2025
2-2	Stormwater Committee Meetings	MDC / COH	The joint committee will meet as needed but at least one meeting held annually	Ongoing
2-3	Sponsor community participation event	MDC / COH	COH will hold an event and MDC may participate or hold it's own annually	Ongoing

Minimum Control Measure 3: Illicit Discharge Detection & Elimination				
BMP #	Task Description	Responsible Person/Dept.	Measurable Goal	Schedule
3-1	Develop a written IDDE Program	MDC EH&S	Written IDDE Program developed	12/2025
3-2	Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas	MDC EH&S and GIS	Outfall and Interconnections inventory and map complete	Complete
3-3	Develop a program for citizen reporting of illicit discharges	MDC EH&S and Command Center	Formal written program developed	Complete
3-4	Establish legal authority to prohibit and remove illicit discharges	MDC	MDC has established ordinances to prohibit illicit discharges	Complete
3-5	Develop record keeping system for IDDE tracking	MDC EH&S	MDC has a method for keeping track of IDDE	Complete
3-6	Address IDDE in areas with pollutants of concern	MDC EH&S and Utility Services	MDC will prioritize areas of concern	Ongoing

3-7	Develop and maintain an inventory identifying all known locations where Sanitary Sewer Overflows have discharged to the MS4 within the previous five years	MDC	Inventory developed. Inventory updated upon occurrence but at least annually and included in the Annual Report.	Complete
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Table 5: Summary of BMPs by Minimum Control Measure (Continued)

Minimum Control Measure 4: Construction Site Runoff Control				
BMP #	Task Description	Responsible Person/Dept.	Measurable Goal	Schedule
4-1a	Implement, upgrade (as necessary) and enforce City land use regulations or other legal authority to meet requirements of MS4 General Permit	MDC / COH	MDC shall refer to COH regulations per MOU	Complete
4-1b	Establish interagency or inter-jurisdictional agreements	MDC / COH	MOU interagency or inter-jurisdictional agreements established	Complete
4-2	Develop & implement a plan outlining interdepartmental coordination in site plan review & approval	MDC / COH	MOU interagency or inter-jurisdictional agreements established	Complete
4-3	Review site plans for stormwater quality concerns	MDC / COH	MDC will review site plans where there is potential to increase flow to MDC stormwater system	Ongoing
4-4	Conduct Site Inspections	COH, Director/Planning Division	MDC will perform site inspections when needed	Ongoing
4-5	Consideration of public input	MDC / COH	MDC will participate in public meetings as needed	Ongoing
4-6	Notify construction site operators of the requirements for registration under "General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities"	COH	COH will comply as needed	Complete
4-7	Document compliance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards for all new or increased discharges to High Quality Waters from the MS4	MDC / COH	MDC will coordinate with COH as needed 100%	Complete
4-8	Demonstrate no new or increased discharges to Impaired Waters from the MS4	MDC / COH	Zero increased discharges from MS4 to Impaired Waters	Complete

Table 5: Summary of BMPs by Minimum Control Measure (Continued)

Minimum Control Measure 5: Post Construction Stormwater Management in New Development & Re-development				
BMP #	Task Description	Responsible Person/Dept.	Measurable Goal	Schedule
5-1	Establish legal authority and guidelines regarding low impact development (LID) and runoff reduction in site development planning	COH	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	Complete
5-2	Enforce LID/runoff reduction requirements for development and redevelopment projects	COH	Percent of LID projects required by City for approval of those received within the reporting period	Complete
5-3	Implement long-term maintenance plan for stormwater basins and treatment structures	COH	Inspect 100% of City-owned stormwater basins and treatment structures annually	Complete
5-4	DCIA mapping	COH	Percent of total outfalls that DCIA has been mapped and calculated for	To be determine
5-5	Address post-construction issues in areas with pollutants of concern	COH	Plan for correcting problems developed within 12 months of identification. 100 % of identified problems corrected within required timeframe	Complete
5-6	Implement and maintain any control measures or conditions for New Discharge to an Impaired Water without an Established TMDL	MDC / COH	100% of control measures or conditions implemented and maintained	To be determined
5-7	Additional requirements for all new and existing discharges to a water with an Established TMDL or with a Pollutant Load Reduction	MDC / COH	100% of the discharge requirements consistent with the applicable Wasteload Allocations, Load Allocations or Water Quality Targets for that TMDL.	To be determined

Minimum Control Measure 6: Pollution Prevention/Good Housekeeping in Municipal Operations				
BMP #	Task Description	Responsible Person/Dept.	Measurable Goal	Schedule
6-1	Continue the formal employee training program developed under the MS4 General Permit	MDC	100% of required operational employees trained annually	Ongoing
6-2	Implement MS4 property and operations maintenance	MDC / COH	See Sub-division	12/31/2017
6-2a	Minimize the discharge of pollutants to MS4 from parks and open space management	COH	100% of existing SOP's reviewed and updated by deadline. Missing SOP's (if applicable) developed within 6 months	12/31/2017
6-2b	Minimize the discharge of pollutants to MS4 from pet waste management	COH	1) Locations with inappropriate pet waste management identified by deadline; and 2) % of locations where compliance activities are complete	12/31/2017
6-2c	Minimize the discharge of pollutants to MS4 from waterfowl management	COH	1) Lands where waterfowl congregate identified within schedule; 2) Report percentage of identified lands that have signs installed or other targeted techniques; 3) Report percentage of identified lands that have practices implemented	12/31/2017
6-2d	Minimize the discharge of pollutants to MS4 from municipal buildings and facilities	COH	1) Procedures developed and implemented for dumpsters; 2) 100% of parking lots swept annually; 3) Report percentage of non-SWPPP facilities evaluated	12/31/2017

Table 5: Summary of BMPs by Minimum Control Measure (Continued)

Minimum Control Measure 6: Pollution Prevention/Good Housekeeping in Municipal Operations				
BMP #	Task Description	Responsible Person/Dept.	Measurable Goal	Schedule
6-2e	Minimize the discharge of pollutants to MS4 from municipal vehicle and equipment maintenance	COH	1)Procedures established for City vehicle storage; 2) Fueling areas evaluated; and 3)Procedures established to ensure that vehicle wash waters are not discharged to the MS4 or to surface waters	Ongoing
6-2f	Minimize the discharge of pollutants to MS4 from leaf management	COH	Problem streets swept annually in the fall as part of BMP #6-9; Educational information provided on social media (BMP #1-1) and on City Stormwater webpage (BMP #1-3) annually.	Ongoing
6-3	Implement coordination with interconnected MS4s	MDC / COH	Interconnected MS4 coordination implemented within deadline	Ongoing
6-4	Develop and implement a program to control other sources of pollutants to the MS4	MDC / COH	Program developed and implemented to control the contribution of pollutants to MS4 by deadline	Ongoing
6-5	Additional measures for discharges to impaired waters	MDC	Additional measures implemented by deadline	Ongoing
6-6	Track projects that disconnect DCIA	COH	The total amount of DCIA that has been disconnected during a given year	Ongoing
6-7	Develop and implement infrastructure repair/rehabilitation program	MDC	Program developed and implemented by deadline	Ongoing
6-8	Develop plan to identify/prioritize retrofit projects	COH	Plan developed by deadline; 2% DCIA disconnected by deadline	To be determined
6-9	Develop/implement street sweeping program	COH	100% of Roads swept at least twice annually	Ongoing
6-10	Develop/implement catch basin cleaning program	MDC	100% of catch basins cleaned within schedule	Ongoing
6-11	Develop/implement snow management practices	COH	See Sub-division	Ongoing
6-11a	Deicing Material Management	COH	SOPs for the use, handling, storage, application, and disposal of deicing products developed and implemented by deadline	Ongoing
6-11b	Develop/implement snow management practices	COH	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	Ongoing

Table 5: Summary of BMPs by Minimum Control Measure (Continued)

Monitoring Requirements: Impaired Waters Outfall Investigation & Monitoring				
BMP #	Task Description	Responsible Person/Dept.	Measurable Goal	Schedule
7-1	Screen all Outfalls that Discharge to Impaired Waters: Begin Screening	MDC	Begin Screening	Complete
	Screen all Outfalls that Discharge to Impaired Waters: Screen 50% of outfalls that discharge to impaired waters	MDC	50% of outfalls screened by deadline	Complete
	Screen all Outfalls that Discharge to Impaired Waters: Screen 100% of outfalls that discharge to impaired waters	MDC	100% of outfalls screened by end of permit	Complete
7-2	Inventory and mapping of discharges to impaired waters	MDC / COH	MDC will coordinate with COH to develop an inventory of outfalls and mapping	Complete
7-3	Follow-up Investigations of drainage areas: commence follow-up investigations	MDC	Follow-up investigations commenced by deadline	Ongoing
	Follow-up Investigations of drainage areas: implement control measures	MDC	% of areas identified for follow-up investigation that have had a BMP implemented	Ongoing
7-4	Annual monitoring of priority outfalls	MDC	MDC will prioritize and monitor outfalls in MDC owned infrastructure	Ongoing

Appendix B
Registration Form

Appendix C

General Permit for the discharge of Stormwater from Small Municipal Separate Storm Sewer Systems