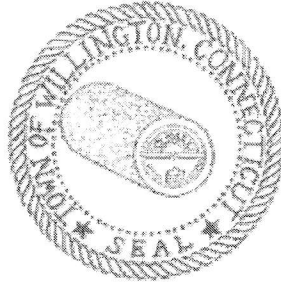


TOWN OF WILLINGTON CONNECTICUT



STORMWATER MANAGEMENT PLAN

March 2017

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Introduction

This Stormwater Management Plan (SMP) was developed by the Town of Willington to protect water quality and reduce the discharge of pollutants from the municipality's storm sewer system to the maximum extent practicable (MEP). This SMP addresses the requirements established by the CT Department of Energy and Environmental Protection's (DEEP) General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit). This permit is the local enforcement mechanism of the U.S. Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) Stormwater Phase II Rule.

SMP Structure

The plan outlines a program of best management practices (BMPs), measurable goals, responsible individuals or departments, and implementation schedules for the following six minimum control measures:

- (1) Public education and outreach
- (2) Public involvement and participation
- (3) Illicit discharge detection and elimination
- (4) Construction site stormwater runoff control
- (5) Post-construction stormwater management in new development and redevelopment
- (6) Pollution prevention/good housekeeping

Appendices to this plan include the CT DEEP General Permit for the Discharge of Stormwater from Small MS4s and a map of Willington's impaired waterbodies.

Area Subject to the Plan

The measures identified in this SMP will be applied throughout the boundaries of the Town of Willington except as otherwise noted and be consistent with the MS4 General Permit requirements. Stormwater discharge from the municipally-owned maintenance garage, salt shed and other facilities subject to the DEEP Industrial Stormwater General Permit will continue to be regulated under the conditions of that permit.

SMP Development

As of the current date of this plan, a stormwater committee, led by the Public Works Department and including representatives from the Planning Department, Parks and Recreation, the Economic Development Commission, Inland Wetlands and Watercourses

Agency, and Zoning Enforcement will be set up and assembled to coordinate the development and implementation of the SMP.

Annual Reporting

The SMP's implementation will be tracked and documented in Annual Reports summarizing stormwater management activities carried out by the Town and its partners. These reports will be submitted to DEEP on an annual basis no later than April 1.

Description of The Town of Willington

The operator of the MS4 is the Town of Willington. The Town of Willington is a public entity located in the county of Tolland, State of Connecticut. The Town of Willington covers an area of approximately 33.5 square miles, located in Eastern Connecticut as shown in Figure 1. The Connecticut Department of Transportation (DOT) operates an MS4 on several State highways located in the Town of Willington, including Route 32, Route 320, Route 74, Interstate Route I-84 and a short section of Route 44. This system of roads is regulated under the CT DOT's MS4 permit. Implementation of the BMPs identified in this plan will be coordinated between Willington and CT DOT, wherever the two systems may be interconnected.

Impaired Waters

In preparing the SMP, the CT DEEP's Water Quality Standards were reviewed in order to determine the Surface Water Quality Classifications for each watercourse in town. Certain BMP's address the watersheds containing watercourses designated as "impaired" by the CT DEEP. Table 1 shows the water quality classification for each watershed. Table 2 summarizes the water bodies within or that run through the municipality that are listed on the 2014 List of Connecticut Water Bodies not meeting water quality standards and are designated as "impaired".

TABLE 1 Water Quality Surface Classifications for Willington, Connecticut			
Drainage Basin Number	Name	Surface Water Quality Classification	Impaired per Water Quality
3207-00	Fenton River	AA	No
3104-00	Roaring Brook	A	No
3100-00	Willimantic River	B	Yes
3104-09	Keene Brook	A	No

TABLE 2 Willington Impaired Waterbody Areas					
Waterbody ID	Water Segment Description	Water Segment Length (miles)	Impaired Use	Pollutant	Cause/Potential Source
Willimantic River	From confluence with Bonemill Brook (just DS of Route 32 crossing), Willington/Tolland, US to Stafford POTW (east of Route 32 (River Road)), Stafford.	1.65	Aquatic Life Support	Cause unknown, according to current map of Connecticut Impaired Waters (2014)	This stretch of river is downstream of the Town of Stafford Wastewater Treatment Plant (POTW)
Willimantic River	Inlet to Eagleville Pond (west of Route 32 and Railroad tracks near Ravine Road intersection), Mansfield, US to I-84 crossing (includes under highway crossing area), Willington/Tolland.	9.59 (Includes segment from Willington and then extending south into the Town of Mansfield)	Recreation	Escherichia Coli (E. Coli)	This stretch of river, which forms the border between Willington and Tolland, is downstream of the I-84 rest areas which had impaired subsurface sewage disposal systems; these were since repaired in 2015 – 2016.
Ruby Lake Outlet Stream (Tributary to Roaring Brook)	From mouth at Roaring Brook, Willington, US to wetland adjacent to truck stop (TSA), Southwest of Exit 71 off I-84.	0.12	Aquatic Life Support	Specific Monitoring Requirements-See NPDES Permit #CT0029520	This segment of Ruby Lake Brook receives groundwater and surface water discharge from both a wastewater treatment facility and a stormwater detention basin associated with and emanating from the TSA Truck Stop just north and east of the stream.

The surface water classifications currently assigned to Willington watercourses, as shown in Table 1 above, are defined as follows:

Class AA

Surface waters classified as Class AA are those waters shown as such on a map entitled “Water Quality Classifications” on file with the department and that may be amended from time to time in accordance with subsections (d) through (g) of Section 22a-426 of the Connecticut General Statutes. The designated uses for Class AA waters are:

- (1) existing or proposed drinking water supplies;
- (2) habitat for fish and other aquatic life and wildlife;
- (3) recreation; and
- (4) water supply for industry and agriculture.

Class A

Surface waters classified as Class A are those waters shown as such on a map entitled “Water Quality Classifications” on file with the DEEP, that may be amended from time to time in accordance with subsections (d) through (g) of Section 22a-426 of the Connecticut General Statutes. The designated uses for Class A waters are:

- (1) habitat for fish and other aquatic life and wildlife;
- (2) potential drinking water supplies;
- (3) recreation;
- (4) navigation; and
- (5) water supply for industry and agriculture.

Class B

Surface waters classified as Class B are those waters shown as such on a map entitled Water Quality Classifications on file with the department and that may be amended from time to time in accordance with subsections (d) through (g) of Section 22a-426 of the Connecticut General Statutes. The designated uses for Class B waters are:

- (1) habitat for fish and other aquatic life and wildlife;
- (2) recreation;
- (3) navigation; and
- (4) industrial and agricultural water supply.

Based on the DEEP Surface Water Quality Classifications, the Willimantic River and Roaring Brook are identified as the surface waters that should take the highest priority in Willington's efforts to address stormwater impacts. This was taken into consideration as the BMPs were developed.

Of note is the following, (1) that the impairments identified on the attached plan and noted in Table 2 are most likely caused by discharges from the Town of Stafford POTW and upstream industrial users for the upper reaches of the Willimantic River on the northwest borderline of the Town of Willington¹; (2) that the impaired section of the Willimantic River in the southwest section of the Town² was in the past caused by discharge from ineffective subsurface sewage disposal at the State of Connecticut rest areas along I-84³; and (3) that the impaired section of an unnamed segment of a brook emanating from Ruby Lake between Route 320 (a State DOT highway) and Interstate I-84 (again a State DOT highway) is due to discharges from either surface and / or groundwater from a stormwater detention basin and sewage treatment facility with surface dispersal lagoons at the TA Travel Center at Exit 71.

Therefore, as impaired waters currently exist within or along the boundaries of the Town of Willington, none appear to be caused by stormwater flows emanating from the Town's integrated stormwater systems. As such, the Town will strive to inform the Public of this situation and work, to the extent feasible, to inform those that may be responsible for the potential sources of pollution of its efforts and cooperation to bring these waters back to a higher quality state.

(1) Public Education and Outreach

This minimum control measure outlines a program to communicate common sources of stormwater pollution and the impacts of polluted stormwater to the public. This will be done through distributing educational materials to the community and conducting outreach activities. The following BMPs and implementation schedule serve as Willington's MS4 Public Education Program.

¹ Note that this impairment area is shared with the Towns of Ellington and Tolland whose borders are also formed by the Willimantic River in this area.

² A border once again shared by both Willington and Tolland.

³ Which have since been repaired; However, no current testing for water quality was available for this area at the time of preparation of this report.

Goals:

- Raise public awareness that polluted stormwater runoff is the most significant source of water quality problems;
- Motivate residents to use Best Management Practices (BMPs) that reduce polluted stormwater runoff; and
- Reduce polluted stormwater runoff in Town as a result of increased awareness and utilization of BMPs.

1.1 Implement Public Education Program

Willington will collect and distribute stormwater educational materials that, at a minimum, address the impacts of the following on water quality: pet waste, impervious cover, application of fertilizers, pesticides, and herbicides, and illicit discharges and improper disposal of wastes into the MS4.

Willington will maintain its link to UConn NEMO's comprehensive online library of stormwater educational material. The Willington website (<http://www.willingtonct.org>) will link directly to this web-based library and promote the availability of these materials. The Town will also provide materials in a printed format to be on display in public locations within the Town Office Building and the Willington Public Library.

Additional targeted outreach efforts will be completed by the Town to educate K-12 students, agricultural operators, commercial businesses, developers, and homeowners on particular aspects of stormwater management.

Willington will coordinate with other Town departments to ensure that all required topics listed in this plan are covered and tracked on an annual basis.

1.2 Address Education and Outreach for Pollutants of Concern

Willington will distribute information on common sources of phosphorus, nitrogen, bacteria, and mercury pollution and how to prevent or reduce the amount reaching the MS4 and discharging into waterways.

The table below shows additional topics to be covered to address the phosphorus, nitrogen, bacteria, and mercury impairments that may exist in Willington.

Phosphorus	Nitrogen	Bacteria	Mercury
Septic systems	Septic systems	Septic systems	Thermometers
Fertilizer use	Fertilizer use	Sanitary cross connections	Thermostats
Grass clippings and leaves management	Grass clippings and leaves management	Waterfowl & Other Birds	Fluorescent lights
Detergent use	Discharge of sediment (to which Nitrogen binds) from Construction sites	Pet waste	Button cell batteries
Discharge of sediment (to which Phosphorus binds) from Construction sites	Other erosive surfaces	Manure piles associated with livestock and horses	Thermometers
Other erosive surfaces			

Public Outreach and Education Schedule

BMP	Lead department / individual	Month / year of implementation	Measurable Goal
Implement public education program	Public Works & Planning / Land Use	July 1, 2018 and continue until permit expires	News Releases & Informational Meetings
Address education/outreach for pollutants of concern	Public Works & Planning / Land Use	July 1, 2018 and continue until permit expires	News Releases & Informational Meetings
Other BMPs... ⁴			

⁴ Develop additional BMPs as appropriate and as may be required.

(2) Public Involvement and Participation

This minimum control measure identifies the process for public involvement and participation in the town's stormwater management efforts.

Goals:

- Involve the community in planning and implementing the town's stormwater management activities.
- Provide a minimum 30 day notice to the public for this plan and annual reports.

2.1 Comply with Public Notice Requirements for the Stormwater Management Plan and Annual Reports

Willington will publish a public notice on its website (<http://www.willingtonct.org>). The notice will provide a contact name, phone number, address, and email to whom the public can send comments. Additionally, this plan and the Annual Reports will be publicly accessible on the web site previously noted and at the Town Office Building and the Willington Public Library. The public notice will allow for a 30-day comment period, at a minimum.

Public involvement and participation schedule

BMP	Lead department / individual	Month / year of implementation	Measurable Goal
Comply with public notice requirements for the SMP and Annual Reports	Public Works & Planning / Land Use	July 1, 2017 and continue until permit expires	Publish notices as required by DEEP and as set out in this SMP
Other BMPs...			

(3) Illicit Discharge Detection and Elimination

This minimum control measure outlines a program to detect and eliminate current illicit discharges to the MS4 and prevent further illicit discharges in the future. All activities for this measure will be completed in Willington's priority areas (urbanized area, catchment areas with directly connected impervious area (DCIA) > 11%, and outfalls that discharge to impaired waters).

Goal:

Find the source of any illicit discharges; eliminate those illicit discharges; and ensure ongoing screening and tracking to prevent and eliminate future illicit discharges.

3.1 Develop Written IDDE Plan

Willington will develop a written IDDE plan to detect, locate and eliminate illicit discharges (to the maximum extent practicable) from the MS4 within Willington's priority areas. The IDDE plan will provide enforceable legal authority to eliminate illicit discharges, assign responsibilities, and develop a citizen reporting program. The plan will also outline the outfall screening and IDDE protocols consistent with Appendix B of the MS4 General Permit to identify, prioritize, and investigate MS4 catchments for suspected illicit discharge of pollutants. Also, the IDDE plan will outline follow-up screening and illicit discharge prevention procedures.

3.2 Develop List and Map of all MS4 Outfalls and Interconnections in Priority Areas

Willington will develop a database of all stormwater discharges from a pipe or conduit located within and owned or operated by the municipality and all interconnections with other MS4s.

Each entry will include:

- a. Type, material, size, shape and location (identified with a latitude and longitude) of conveyance, outfall or channelized flow (e.g. 24" concrete pipe);
- b. the name, water body ID and Surface Water Quality Classification of the immediate surface waterbody or wetland to which the stormwater runoff discharges;
- c. if the outfall does not discharge directly to a named waterbody, the name and water body ID of the nearest named waterbody to which the outfall eventually discharges;

- d. and the name of the watershed, including the sub-regional drainage basin number (available from CT ECO at <http://www.cteco.uconn.edu/>) in which the discharge is located;
- e. date of most recent inspection of the outfall, the condition, and any indicators of potential non-stormwater discharges as of most recent inspection.

The database will be exported into Excel format for annual reports, and will be updated by the Public Works Department on an annual basis.

3.3 Develop Citizen Reporting Program

Willington will establish a system to allow for citizen reporting of suspected illicit discharges into the stormwater system. The system will include an email address and phone number for submitting a report. Willington will affirmatively investigate and eliminate any illicit discharges for which a time and location of discharge are provided. Willington will promptly inspect the reported outfall, catch basin or manhole and proceed according to the requirements of the written IDDE program. All citizen reports and responses will be included in Willington's annual report.

3.4 Establish Legal Authority to Prohibit Illicit Discharges

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

- a. prohibit illicit discharges to its storm sewer system and require removal of such discharges consistent with the deadlines outlined in the MS4 general permit;
- b. authorize the investigation of suspected illicit discharges and elimination of illicit discharge, including from properties not owned or controlled by the MS4 that discharge to the MS4;
- c. control the discharge of spills and prohibit the dumping or disposal of materials including, but not limited to, residential, industrial and commercial wastes, trash, used motor vehicle fluids, pesticides, fertilizers, food preparation waste, leaf litter, grass clippings, and animal wastes into its MS4;
- d. authorize appropriate enforcement procedures and actions; and
- e. authorize fines or penalties and/or recoup costs incurred by the permittee from anyone creating an illicit discharge or spilling or dumping.

3.5 Develop Record Keeping System for IDDE Tracking

Willington will keep a record of illicit discharge abatement activities including location (including latitude and longitude or address), description, date(s) of inspection, sampling data (if applicable), action(s) taken, date of removal or repair and responsible party.

In addition, Willington will develop and maintain an SSO (Storm Sewer Outfall) inventory that records the location, date and time of occurrence, estimated volume of discharge, a description of known or suspected cause, and details about mitigating measures including dates of implementation.

This inventory will also:

- include all known SSOs to their MS4 in the past 5 years (July 1, 2012 – June 30, 2017);
- continue to be updated to track future SSOs; and
- be included in Annual Reports.

3.6 Address IDDE in Areas with Pollutants of Concern

Willington will identify which areas in town are most likely to contribute nitrogen, phosphorus, and bacteria to the MS4. This assessment will consider: historic on-site sanitary system failures, proximity to bacterial impaired waters, low infiltrative soils, and shallow groundwater. Any areas determined to have a high potential for septic system failure will be reported to the Health Department for corrective action.

3.7 Detailed MS4 Infrastructure Mapping

Willington will develop a detailed map of the MS4 to include:

- Components of the MS4 within priority areas:
 - Outfalls & receiving waters;
 - Pipes; open channel conveyances; catch basins; manholes;
 - Interconnections with other MS4s and other storm sewer systems;
 - Municipally-owned stormwater treatment structures (e.g. detention & retention ponds, infiltration systems, bio-retention areas, water quality swales, gross particle separators, oil/water separators, or other systems);
 - Catchment delineations for each outfall;
 - Impaired water bodies identified by name and use impairment as defined by the most recent integrated water quality report;

- Municipal sanitary sewer system (if available);
- Municipal combined sewer system (if applicable).

Willington will update the map as new information becomes available and will report on the progress of the development of this map in the annual report.

Illicit Discharge Detection and Elimination Schedule

BMP	Lead Department / Individual	Month / Year of Implementation	Measurable Goal
Develop written IDDE program	Public Works Department	July 1, 2018	Written and finalized IDDE Program
Develop list and maps of all MS4 stormwater outfalls in priority areas	Public Works Department	July 1, 2019	Finalize maps showing all MS4 outfalls
Develop citizen reporting program	Board of Selectmen	July 1, 2018	Develop periodic annual reporting system
Establish legal authority to prohibit illicit discharges	Board of Selectmen	July 1, 2018	Set up ordinance prohibiting illicit discharges
Develop record keeping system for IDDE tracking	Public Works Department	July 1, 2017	Set up tracking system for IDDE
Address IDDE in areas with pollutants of concern	Public Works Department	July 1, 2017	Prioritize IDDE for areas with pollutants of concern
Detailed MS4 infrastructure mapping	Public Works Department	July 1, 2020	Prepare detailed location mapping of stormwater infrastructure
Complete list and maps of all MS4 stormwater outfalls throughout municipality	Public Works Department	July 1, 2022	On final maps, show all outfalls areas; prepare table listing
Other BMPs...			

(4) Construction Site Stormwater Runoff Control

This minimum control measure outlines procedures for minimizing polluted stormwater runoff from activities that disturb one or more acres of land. In Willington, this is determined on a site by site basis.

Goal:

Minimize polluted stormwater runoff from construction sites and prevent it from carrying sediment into waterways via MS4 infrastructure.

4.1 Implement, Upgrade and Enforce Land Use Regulations and Ordinances to meet Requirements of MS4 General Permit

Willington will review and revise or update, as necessary, its land use regulations and ordinances to establish the legal authority to control stormwater runoff from construction sites by requiring:

- a. developers, construction site operators, or contractors maintain consistency with the 2002 Guidelines for Soil Erosion and Sedimentation Control, as amended, the Connecticut Stormwater Quality Manual, and all stormwater discharge permits issued by the DEEP within the municipal or institutional boundary pursuant to CGS 22a-430 and 22a-430b;
- b. the implementation of additional measures to protect/improve water quality (in addition to the above requirements) as deemed necessary by the Town of Willington;
- c. Willington is authorized to carry out all inspection, surveillance and monitoring procedures necessary to determine compliance with municipal regulations, ordinances or programs or institutional requirements related to the management of Willington's MS4. Inspections shall be conducted, where allowed, to inventory the number of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive drainage from the permittee's MS4;
- d. the owner of a site seeking development approval from Willington shall 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 Willington's MS4

including short-term and long-term inspection and maintenance measures to be implemented by the private owner; and

- e. Willington will control, through interagency or inter-jurisdictional agreements, the contribution of pollutants between the permittee's MS4 and MS4s owned or operated by others.

4.2 Develop and Implement Plan for Interdepartmental Coordination of Site Plan Review and Approval

Willington currently provides for an interdepartmental review process for all new site plan applications submitted to the Planning and Land Use Department. In light of this new Stormwater Management Plan, currently under evaluation, a joint meeting between departments will be set up to review future cooperation and coordination with respect to the review, permitting, or approval of land disturbance projects.

4.3 Review Site Plans for Stormwater Quality Concerns

Willington will conduct site plan reviews that incorporate consideration of stormwater controls or management practices to prevent or minimize impacts to water quality on sites with soil disturbance of one acre or more.

Willington will also conduct site inspections to assess the adequacy of the installation, maintenance, operation, and repair of construction and post construction control measures and take enforcement action when necessary.

4.4 Conduct Site Inspections

Willington will perform construction site inspections and take enforcement actions if necessary to ensure the adequacy of the installation, maintenance, operation, and repair of all construction and post-construction runoff control measures.

4.5 Implement Procedure to Allow Public Comment on Site Development

Willington will review procedures for public involvement in proposed and ongoing development and land disturbance activities; the Town currently provides for public input for such activities by public notifications and public hearings. Additional information may be submitted by the Public and forwarded to either the Public Works Department or the Planning / Land Use Department for further consideration. If the information is related to construction site

runoff, then both Planning / Land Use and Public Works Departments will cooperate in documenting and resolving any issues related thereto.

4.6 Implement Procedure to Notify Developers about DEEP Construction Stormwater Permit

Willington will notify developers and contractors of their potential obligation to obtain authorization under DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (construction general permit) if their project disturbs more than 1 acre of land and results in a point source discharge to Connecticut surface waters directly or through the Town's MS4. Willington will also require a copy of the Storm Water Pollution Control Plan be made available to the Town on request. The procedure to notify developers of the construction general permit will be as follows:

The town will inform developers (working with the municipality) that they have a potential obligation to obtain authorization under the DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities ("Construction General Permit") if their development or redevelopment project disturbs one or more acres of land, either individually or collectively, as part of a larger common plan, and results in a point source discharge to the surface waters of the State directly or through the permittee's MS4. The notification shall include a provision informing the developer/ contractor of their obligation to provide a copy of the Stormwater Pollution Control Plan (required by the Construction General Permit) to the permittee upon request.

The Contractor is required at all times to conduct his operations in conformity with all Federal and State permit requirements concerning water, air, noise pollution and the disposal of contaminated, or hazardous materials.

Construction Site Stormwater Management Schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Implement, upgrade and enforce land use regulations to meet MS4 permit requirements	Planning / Land Use Department & Board of Selectmen	July 1, 2019	Review and upgrade regulations for MS4 requirements
Develop/implement plan for interdepartmental coordination in site plan review and approval	Public Works Department	July 1, 2017	Set up regular staff meeting schedule for review of applications
Review site plans for stormwater quality concerns	Planning / Land Use Department	July 1, 2017	Continue current application procedure
Conduct site inspections	Planning / Land Use Department	July 1, 2017	Designate responsible individual from the Planning / Land Use Department
Implement procedure to allow public comment on site development ⁵	Planning / Land Use Department	July 1, 2017	Continue public hearing procedure
Implement procedure to notify developers about DEEP construction stormwater permit	Planning / Land Use Department	July 1, 2017	Include procedure with normal application package
Other BMPs...			

⁵ Note that Willington's Planning and Zoning Department currently has a procedure for setting public hearings on site development applications.

(5) Post-Construction Stormwater Management in New Development or Redevelopment

This minimum control measure outlines Willington's program to address stormwater runoff from new or re-development projects that disturb one or more acres of land.

Goal:

Mitigate the long-term impacts of new and re-development projects on water quality through proper use of low impact development and runoff reduction practices.

5.1 Establish Legal Authority and Guidelines Regarding LID and Runoff Reduction in Site Development Planning

Willington will establish the legal authority by ordinance, bylaw, regulation, standard condition of approval, or other means to require, to the MEP, developers and contractors seeking the town's approval to consider the use of low impact development (LID) and runoff reduction site planning and development practices that meet or exceed those LID and runoff reduction practices in the CT Stormwater Quality Manual prior to other stormwater management practices allowed in Willington's land use regulations, guidance or construction project requirements.

This legal authority will include the following standards:

- 1) for redevelopment of sites that are currently developed with Directly Connected Impervious Area (DCIA) of forty percent or more, the project must retain on-site half the water quality volume for the site, or
- 2) for new development and redevelopment of sites with less than forty percent DCIA, retain the water quality volume for the site, or
- 3) if those retention standards cannot be met, the developer will be required to provide a report indicating why the standard could not be met and a mitigation project on another property or pay a fee to fund a DCIA retrofit.

In developing this legal authority, Willington will consider the following watershed protection elements to manage the impacts of stormwater on receiving waters:

- a. Minimize the amount of impervious surfaces (roads, parking lots, roofs, etc.) within each municipality by minimizing the creation, extension, and widening of parking lots, roads, and associated development and encourage the use of Low Impact Development or green infrastructure practices.
- b. Preserve, protect, create and restore ecologically sensitive areas that provide water quality benefits and serve critical watershed functions. These areas may include, but are not limited to; riparian corridors, headwaters, floodplains and wetlands.
- c. 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.
- d. Seek to avoid or prevent hydromodification of streams and other water bodies caused by development, including roads, highways, and bridges.
- e. Implement standards to protect trees, and other vegetation with important evapotranspirative qualities.
- f. Implement policies to protect native soils, prevent topsoil stripping, and prevent compaction of soils.
- g. Coordinate with state or local health officials to ensure no interference with performance of on-site septic systems.
- h. Limit turf areas.

In addition, Willington will review its current regulations - site planning requirements, zoning regulations, street design regulations, and infrastructure specifications with minimum size criteria for impervious cover (roads, parking lots, etc.) to identify and, where appropriate, reduce or eliminate existing regulatory barriers to implementation of LID and runoff reduction practices to the MEP.

5.2 Implement Long-Term Maintenance Plan for Stormwater Basins and Treatment Structures

Willington will develop a maintenance plan for retention / detention ponds and stormwater treatment structures that it owns or over which it holds an easement or other authority and that are located in the Town's priority areas to ensure their long-term effectiveness. This plan will require an annual inspection of those retention / detention

ponds and stormwater treatment structures and removal of accumulated sediment and pollutants in excess of 50% design capacity.

5.3 Directly Connected Impervious Area (DCIA) mapping

Willington will follow guidance provided by DEEP and UConn CLEAR to calculate the Directly Connected Impervious Area (DCIA) that contributes stormwater runoff to each of its MS4 outfalls. Progress on this task will be documented in each Annual Report until completion.

5.4 Address Post-Construction Issues in Areas with Pollutants of Concern

For areas contributing to waters where Nitrogen, Phosphorus or Bacteria is a Stormwater Pollutant of Concern and erosion or sedimentation problems are found during the annual inspections conducted under the long-term maintenance plan described in BMP 5.2, Willington will prioritize those areas for the DCIA retrofit program under Minimum Control Measure 6 – Pollution Prevention/Good Housekeeping.

Post-Construction Stormwater Management Schedule

BMP	Lead Department / Individual	Month / Year of Implementation	Measurable Goal
Establish or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Planning / Land Use Department & Board of Selectmen	July 1, 2021	Set up new ordinance and / or review and update Planning & Zoning Regulations
Enforce LID/runoff reduction requirements for development and redevelopment projects	Planning / Land Use Department	July 1, 2021	Set up new ordinance and / or review and update Planning & Zoning Regulations
Implement long-term maintenance plan for stormwater basins and treatment structures	Public Works Department	July 1, 2019	Include in regular maintenance schedule
Complete DCIA mapping	Public Works Department	July 1, 2020	Include in full GIS mapping project
Address post-construction issues in areas with pollutants of concern	Planning / Land Use Department & Public Works Department	July 1, 2019	Document and enforce latest ordinances and regulations
Other BMPs...			

(6) Pollution Prevention / Good Housekeeping

This minimum control measure outlines a program to mitigate the impact of town operations and maintenance on town owned and/or operated properties and the MS4 itself to water quality.

Goal:

Prevent or reduce pollutant runoff as a result of municipal operations.

Willington will implement an operations and maintenance program to prevent or reduce pollutant runoff from town facilities and protect water quality.

6.1 Develop and Implement Formal Employee Training Program

Willington will establish its MS4 training program for town employees to increase awareness of water quality issues. Training will include:

- Standard operating procedures consistent with the MS4 general permit;
- General goals and objectives of this Stormwater Management Plan;
- Identification and reporting of illicit discharges and improper disposal; and
- Spill response protocols and responsibilities.

These trainings may also include regional or statewide trainings coordinated by UConn CLEAR or others. The training program will be administered by the Director of Public Works.

6.2 Implement MS4 Property and Operations Maintenance

Willington-owned or -operated properties, parks, and other facilities that are owned, operated, or otherwise the legal responsibility of Willington will be maintained so as to minimize the discharge of pollutants to its MS4. Such maintenance will include, but not be limited to:

(i) Parks and Open Space

Willington will optimize the application of fertilizers by municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance. Optimization practices considered may include:

- conducting soil testing and analysis to determine soil phosphorus levels,
- the reduction or elimination of fertilizers,
- reduction of fertilizer usage by adhering to the manufacturers' instructions,
- use of alternative fertilizers forms (i.e. products with reduced, slow-releasing, or insoluble phosphorus compositions),
- proper storage and application practices (i.e. avoid impervious surfaces),
- application schedule (i.e. appropriate season or month) and timing (i.e. coordinated with climatic conditions to minimize runoff potential);
- standard operating practices for the handling, storage, application, and disposal of pesticides and herbicides in compliance with applicable state and federal laws;
- evaluating reduced mowing frequencies 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).

Willington will establish practices for the proper disposal of grass clippings and leaves at Town-owned lands. Clippings shall be composted or otherwise appropriately disposed. Clippings will not enter the MS4 system or waters of the state.

(ii) Pet Waste Management

Willington will identify locations 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, the Town will implement targeted management efforts such as public education and enforcement (e.g. increased patrol for violators).

In Willington-owned recreational areas where dog walking is allowed, Willington will install educational signage, pet waste baggies, and disposal receptacles (or require carry-out).

Willington will document its efforts in its annual reports. Willington will consider including information regarding the scope and extent of its education, compliance, and enforcement efforts (including the number of violations pursued and fines levied or other enforcement taken).

(iii) Waterfowl Management

Willington will identify lands where waterfowl congregate and feeding by the public occurs.

To raise awareness regarding the water quality impacts, Willington will 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 practices.

Willington will also 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.

(iv) Willington Buildings and Facilities (Schools Under the Jurisdiction of Willington, Town Offices, Fire Stations, and other Town-owned or Operated Buildings or Utilities)

Willington will:

- evaluate the use, storage, and disposal of both petroleum and non-petroleum products and 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;
- ensure that all interior building floor drains are not connected to the MS4 and are appropriately permitted.

(v) Vehicles and Equipment

Willington will:

- establish procedures for the storage of Willington-owned or -operated vehicles;
- require vehicles with fluid leaks to be stored indoors or in contained areas until repaired;

- evaluate fueling areas owned by Willington and used by Willington owned or -operated 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;
- ensure any interior floor drains are appropriately permitted.

(vi) Leaf Management

Willington will 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. Such procedures shall also apply to leaves collected by Willington.

6.3 Implement Coordination with Interconnected MS4s

Willington will 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 systems.

6.4 Develop and Implement a Program to Control Other Sources of Pollutants to the MS4

Willington will 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 a CT DEEP stormwater permit.

6.5 Evaluate Additional Measures for Discharges to Impaired Waters

(i) For Waters for which Nitrogen or Phosphorus is or may be a Stormwater Pollutant of Concern:

On Willington -owned or -operated lands, Willington 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 will discuss the actions taken to implement this policy with an estimate of fertilizer and turf reduction.

(ii) For Waters for which Bacteria is a Stormwater Pollutant of Concern:

On Willington-owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), Willington will develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) within a specific timeframe. Each Annual Report will 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), the cost of such retrofit or program, and the anticipated pollutant reduction. On Willington-owned or -operated lands, prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations. Each Annual Report will discuss the actions taken to implement this program.

6.6 Track DCIA Projects Disconnected from the MS4

Willington will annually track the total acreage of Directly Connected Impervious Area (DCIA) that is disconnected from the MS4 as a result of redevelopment or retrofit projects within the town. For each retrofit/redevelopment project, Willington will document the amount of existing DCIA that is disconnected. The total amount of disconnected DCIA will be reported each year in the Annual Report. Starting on July 1, 2021, Willington's goal will be to reduce 1% of its total DCIA acreage per year to the maximum extent possible. Willington will provide updates on this goal in its annual report. Willington will also incorporate all DCIA disconnections which occurred in the town since July 1, 2012 towards meeting this goal.

6.7 Develop and Implement an Infrastructure Repair, Rehabilitation and Retrofit Program

Willington will begin a program to identify MS4 structures to repair, rehabilitate, or upgrade to reduce or eliminate the discharge of pollutants into water bodies. This program will be responsive to new information on outfalls discharging pollutants, impaired waters, inspections, or observations made during outfall mapping under the IDDE section of this plan.

6.8 Develop and Implement Plan to Identify and Prioritize Retrofit Projects

Willington will develop a Retrofit Project Plan to identify and prioritize potential DCIA disconnection projects. Prioritization will be based on several factors, including whether the project lies within one of the MS4 priority areas (urbanized area, DCIA > 11%, discharge to impaired waters). Willington will include in its annual report for the third year of the permit (2020-2021) its identification and prioritization process, a rationale for the selection of projects to be implemented, and the total acres of DCIA to be disconnected upon implementation. The implementation of projects in this plan will begin by June 30, 2022.

6.9 Street Sweeping Program

Willington will continue its program to provide for regular inspection and maintenance of Willington-owned or -operated streets, parking areas and other MS4 infrastructure.

Willington will continue procedures for sweeping town-owned or operated streets and parking lots. All streets and parking lots within the MS4 Priority Areas will be inspected, swept and / or cleaned (as necessary) at least once per year in the spring following the cessation of winter maintenance activities (i.e. sanding, deicing, etc.). The procedures shall also include more frequent inspections, cleaning and/or sweeping of targeted areas determined by Willington to have increased pollutant potential based on the presence of active construction activity or other potential pollutant sources. Willington will 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 Willington. If wet dust suppression is conducted, the use of water will 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 MS4 Priority Areas, including any rural uncurbed streets and parking lots with no catch basins, Willington will either meet the minimum frequencies above, or develop and implement an inspection, documentation and targeted sweeping and / or cleaning plan for those areas by June 30, 2018 and submit such plan with its year one Annual Report. For new and redeveloped municipal parking lots, Willington will evaluate options for reducing stormwater runoff to surface waters and/or the storm sewer system by the installing pervious pavements and / or other measures to promote sheet flow of stormwater.

- a. Willington will 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.
- b. Willington will document results of its sweeping program in its annual reports including: a summary of inspection results, curb miles swept, dates of cleaning, volume or mass of material collected, and method(s) of reuse or disposal. Willington will also include documentation of any alternate sweeping plan for rural uncurbed streets and any runoff reduction measures implemented.

6.10 Catch Basin Cleaning Program

Willington will 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, Willington will optimize routine cleaning frequencies for particular structures or catchment areas as follows to maintain acceptable sediment removal efficiencies:

- a. Inspect all Willington-owned catch basins within MS4 Priority Areas at least once by June 30, 2020. Catch basins outside the MS4 Priority Areas shall be inspected by June 30, 2022.
- b. Prioritize inspection and maintenance for Willington-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). Willington will clean catch basins in such areas more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings.
- c. Establish a schedule such that the frequency of routine cleaning will ensure that no catch basin at any time will be more than fifty (50) percent full. A catch basin sump is more than 50 percent full if the contents within the sump exceed one half the distance between the bottom interior of the catch basin to the invert of the deepest outlet of the catch basin.
- d. If a catch basin sump is more than fifty (50) percent full during two consecutive routine inspections/cleaning events, Willington will document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources. Willington will describe any actions taken in its Annual Report.
- e. Willington will detail its plan for optimizing catch basin cleaning, inspection plans, and its schedule for gathering information to develop the optimization plan in its first annual report. Documentation shall include metrics and other information used to reach the determination that the established plan for cleaning and maintenance is optimal for the MS4. Willington will keep a log of catch basins cleaned or inspected.
- f. Willington will report in each Annual Report the total number of catch basins, number inspected, number cleaned, the total volume or mass of material removed from all catch basins and, if practicable, the volume or mass of material removed from each catch basin draining to water quality limited waters.

6.11 Develop and Implement Snow Management Practices

(i) Deicing Material Management

Willington will develop and implement standard operating practices for the use, handling, storage, application, and disposal of deicing products such as salt and sand to minimize exposure to stormwater; consider means to minimize the use and optimize the application of chloride-based or other salts or deicing product (while maintaining public safety) and consider opportunities for use of alternative materials; for any exterior containers of liquid deicing materials installed after July 1, 2017, Willington will 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.

(ii) Snow and Ice Control Practices

Willington will implement and refine its standard operating practices regarding its snow and ice control to minimize the discharge of sand, anti-icing or de-icing chemicals and other pollutants (while maintaining public safety).

Willington will establish goals for the optimization of sand and/or chemical application rates through the use, where practicable, of automated application equipment (e.g. zero-velocity spreaders), anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals.

Willington will maintain records of the application of sand, anti-icing and/or de-icing chemicals to document the reduction of chemicals to meet established goals.

Willington will ensure the proper training for deicing applications for municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance.

Willington will manage and dispose of snow accumulations in accordance with DEEP's Best Management Practices for Disposal of Snow Accumulations from Roadways and Parking Lots, revised 2/4/11 and as amended (see link at: www.ct.gov/deep/stormwater).

In its Annual Report, Willington will document results of its snow removal program including, at a minimum: the type of staff training conducted on application methods and equipment, type(s) of deicing materials used; lane-miles treated; total amount of each deicing material used; type(s) of deicing equipment used; any changes in deicing practices (and the reasons for the change); and snow disposal methods.

6.12 Interconnected MS4s

If and where identified, Willington will 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 will be conducted regarding operation and maintenance procedures utilized in the respective systems.

6.13 Sources Contributing Pollutants to the MS4

Willington will 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 Sections 22a-430 or 22a-430b of the Connecticut General Statutes.

6.14 Additional Measures for Discharges to Impaired Waters (with or without a TMDL)

(i) For Waters for which Nitrogen or Phosphorus is a Stormwater Pollutant of Concern:

On Willington-owned or -operated lands, Willington will 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. Annual Reports will discuss the actions taken to implement this policy with an estimate of fertilizer and turf reduction.

(ii) For Waters for which Bacteria is a Stormwater Pollutant of Concern:

On Willington-owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), Willington will develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) within a specific timeframe. Annual Reports will 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), the cost of such retrofit or program, and the anticipated pollutant reduction. On Willington-owned or -operated lands, Willington will prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations. Annual Reports will discuss the actions taken to implement this program.

Pollution Prevention / Good Housekeeping Schedule

BMP	Lead Department / Individual	Month / Year of Implementation	Measurable Goal
Develop/implement formal employee training program	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Implement MS4 property and operations maintenance	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Implement coordination with interconnected MS4s	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Develop/implement program to control other sources of pollutants to MS4	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Evaluate additional measures for discharges to impaired waters	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Track projects the disconnect DCIA	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Develop/implement infrastructure repair/rehab program	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Develop/implement plan to identify/prioritize retrofit projects	Public Works Department	July 1, 2020	Develop program of scheduled tasks
Develop/implement street sweeping program	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Develop/implement catch basin cleaning program	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Develop/implement snow management practices	Public Works Department	July 1, 2017	Develop program of scheduled tasks
Other BMPs...			

Outfall Monitoring

The Town of Willington will monitor and investigate all MS4 outfalls that discharge to impaired waterbodies by the end of the permit term. Using the outfall inventory developed under the IDDE minimum control measure, Willington will identify which outfalls discharge to impaired waters and screen them for the specific impairments.

Once half of all outfalls discharging to impaired waterbodies have been screened, the 6 outfalls contributing the highest level of pollutants will be identified and screened on an annual basis.

Based on the screening results, Willington will investigate the drainage areas of outfalls that are contributing to the impairment. The investigations may consider land use or development patterns, business or commercial activities, industrial activities, DCIA, natural contributors, MS4 maintenance issues, residential activities, or anything else potentially contributing to the source of the impairment.

Based on results of the drainage area investigations, Willington will implement measures to address sources of the impairments including the specific impaired waters provisions described within the permit control measures.

Plan Amendments

Willington will amend the SMP whenever:

- (1) there is a change which has the potential to cause pollution of the waters of the state; or
- (2) the actions required by the Plan fail to prevent pollution of the waters of the state or fail to otherwise comply with any other provision of this general permit; or
- (3) the Commissioner requests modification of the Plan.

Stormwater Management Plan Signatures

"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."



Christina Mailhos

First Selectman

April 3, 2017

Chief Elected Official

Title

Date



Karl F. Acimovic

Professional Engineer

April 3, 2017

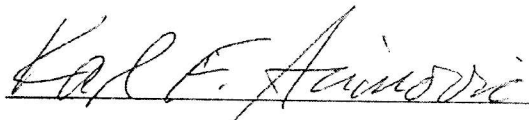
Principal Plan Preparer

Title

Date

Stormwater Management Plan Engineering Certification

"I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, submitted to the Commissioner by the Town of Willington for an activity located at or within Willington and that all terms and conditions of the general permit are being met for all discharges which have been created, initiated or maintained and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that 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)(8)(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 that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes, as amended by Public Act 12-172. I also understand that knowingly making any false statement made in the submitted information and 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."



Karl F. Acimovic

Professional Engineer

Title

Karl F. Acimovic, P.E & L.S., Consulting Town Engineer

Company

April 3, 2017

Date