The enclosed Stormwater Management Plan for the Town of Wilton dated April 2017 was completed in accordance with Connecticut's new *General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems* that will become effective on July 1, 2017. This is considered a draft plan by CT DEEP, and has been published for public review and comment. A hard copy of the plan is also available for review at the DPW office in the Town Hall (Annex). See below for where comments can be sent:

Public comments on your Stormwater Management Plan or your Annual Report should be sent to the DEEP Commissioner.

By Email: DEEP.StormwaterStaff@ct.gov

OR
US Mail:
DEEP
Water Permitting and Enforcement Division
79 Elm Street
Hartford CT 06106
Attn: Karen Allen

Stormwater Management Plan

Town of Wilton

Connecticut

April 2017

WILTON PUBLIC WORKS DEPARTMENT
TOWN HALL ANNEX
238 Danbury Road
Wilton, Connecticut 06897

Table of Contents

Stormwater Management Plan

Town of Wilton

Appendices

Introduction

This Stormwater Management Plan (SMP) was developed by the Town of Wilton 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 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

SMP Development

The Department of Public Works (DPW) prepared this SMP in coordination with representatives from Planning and Zoning, Environmental Affairs, Parks and Recreation, and the Town Health Department. 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 of each year.

Description of Municipality

The operator of the MS4 is the Town of Wilton, a public entity located in Fairfield County, Connecticut. The Town of Wilton covers an area of approximately 27.4 square miles, with a population of approximately 18,640. The DPW maintains 127.25 miles of Town roadways and their associated stormwater collection systems. As shown on Figure No. 1 (in Appendix A), the major rivers in Town flow generally southward to Long Island Sound. Figure No. 1 also shows the subregional watersheds in the Town of Wilton. The Connecticut Department of Transportation (DOT) operates an MS4 on state highways located in the Town of Wilton. This system is regulated under the CT DOT's MS4 permit. Implementation of the BMPs identified in this plan will be coordinated between the Town and CT DOT, as needed.

Impaired Waters

In preparing the SMP, the CT DEEP's Surface Water Quality Classifications (as mapped November 2015) were reviewed in order to determine the classifications for waterbodies in Wilton (see Figure No. 2 in Appendix A). Table 1 shows the surface water quality classifications and corresponding watershed designations.

TABLE 1 Surface Water Quality Classifications - Wilton, CT			
Drainage Basin Number	Name	Surface Water Quality	Impaired per Water Quality Standards
7300-12	Bryant Brook	A	Not assessed
7302-13	City Lake (South Norwalk Reservoir)	AA	Not assessed
7300-10	Mayapple Brook	A	Not assessed
7300-00	Norwalk River	B	Yes
7301-04	Pope's Pond	AA	Not assessed

The surface water classifications currently assigned to Wilton waterbodies are defined below.

Class B

Surface water known or presumed to meet Water Quality Criteria which support designated uses including fish and wildlife habitat, recreational use, and industrial and agricultural water supply.

Class A

Surface water known or presumed to meet Water Quality Criteria which support designated uses, which may include potential drinking water supply; fish and wildlife habitat; recreational use; agricultural, industrial supply and other legitimate uses, including navigation.

Class AA

Designated uses include existing or proposed drinking water supply, fish and wildlife habitat, recreational use (may be restricted), agricultural and industrial supply.

Certain BMP's address the watersheds containing watercourses designated as "impaired" by the DEEP. Table 2 summarizes the water bodies within or that run through the Town that are listed on the 2014 List of Connecticut Water Bodies not meeting water quality standards and that are designated as "impaired". DEEP has developed a Water Quality Fact Sheet for Wilton, summarizing the Town's impaired waters, as well as findings from previous MS4 testing conducted by the Town. The fact sheet is in Appendix B.

TABLE 2 Wilton Impaired Waterbodies				
Waterbody ID & Segment Description	Segment Length (miles)	Impaired Use	Pollutant	Cause/Potential Source
Comstock Brook Watershed				
Comstock Brook [CT7301-00-01] From confluence with Norwalk River (just downstream of Lover's Lane crossing), upstream (north) to confluence with Barretts Brook at Signal Hill Rd South.	2.02	Recreation	E. Coli	---
Norwalk River Watershed				
Norwalk River [CT7300-00-01] From Wall St (Commerce St) crossing in Norwalk, upstream (north) to confluence with Bryant Brook, Wilton.	5.63	Aquatic Life & Recreation	Sedimentation / Siltation	Potential Sources include industrial point source discharges, municipal discharges, landfills, illicit discharge, remediation sites, groundwater contamination.
Norwalk River [CT7300-00-02] From confluence with Bryant Brook upstream (north) to Old Mill Rd crossing and RR tracks southeast of Georgetown.	5.61	Recreation	E. Coli	---
Silvermine River Watershed				
Silvermine River [CT7302-00-02] From Merritt Parkway, Norwalk, upstream to Grupes Reservoir outlet dam (upstream of Valley Road crossing), New Canaan.	5.49	Recreation	E. Coli	---
Tributary to Belden Hill Brook [CT7302-13_trib_01] From confluence with Belden Hill Brook upstream to discharge source at Sisters of Notre Dame (private sewage treatment plant)	0.40	Aquatic Life	Chlorine	Treated sanitary wastewater discharge from School Sisters of Notre Dame facility. (Note that this facility connected to the Wilton Sanitary Sewer System in November 2013, no monitoring is proposed as this discharge has stopped.)

(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 Wilton's MS4 Public Education Program.

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 Wilton as a result of increased awareness and utilization of BMPs.

1.1 Implement public education program

The Town of Wilton and its partners 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.

The Town of Wilton will link to UConn NEMO's comprehensive online library of stormwater educational material. The Town website (http://www.wiltonct.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 Wilton Town Hall.

Additional targeted outreach efforts will be completed by the Town and its partners to educate residents, businesses and developers on particular aspects of stormwater management.

The Town will continue to coordinate with the Wilton Conservation Commission, the Norwalk River Watershed Association (NRWA), and Trout Unlimited on the public education program.

1.2 Address education and outreach for pollutants of concern

The Town and its partners will continue to 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 relevant topics.

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	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	Implementation Goal	Measurable goal
Continue public education program	Conservation Commission/NRWA	Ongoing, and continues until permit expires	Bi-Annual Newsletters
Address education/outreach for pollutants of concern	Conservation Commission/NRWA	Ongoing, and continues until permit expires	Bi-Annual Newsletters
Establish stormwater web page on Town website	DPW & IT	July 1, 2018 and continue until permit expires	Live Stormwater Webpage

(2) Public Involvement and Participation

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

Goals:

- Involve the community in planning and implementing the Wilton'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

The Town of Wilton will publish a public notice on its website (http://www.wiltonct.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 (http://www.wiltonct.org) and in the Wilton Town Hall. The public notice will allow for a 30-day comment period, at a minimum.

Public involvement and participation schedule

BMP	Lead Department	Implementation Goal	Measurable goal
Comply with public notice requirements for the SMP and Annual Reports	DPW	July 1, 2017 and continue until permit expires	Year 1 30-day Public Notice for SMP Years 2 – 5 30-day Public Notice for Annual Reports

2.2 Town and Norwalk River Clean-up Day

The Environmental Affairs Department will continue to hold annual Town-wide and Norwalk River clean-up day(s) in the Town of Wilton. The dual focus clean-up will be held a minimum of once per year. Advance notices for this effort are typically published on the Town website, in newsletters, and in local newspapers.

BMP	Lead Department	Implementation Goal	Measurable goal
Sponsor Town-wide and Norwalk River Clean-up	Environmental Affairs	July 1, 2017 and continue until permit expires	Years 1 – 5 Annual Clean-ups

2.3 Household Hazardous Waste Collection Days

The Town of Wilton, along with the Towns of Weston, Greenwich, Darien, Stamford, Norwalk, New Canaan, and Westport, sponsors Household Hazardous Waste Collection Days for residents. Acceptable items include antifreeze, household cleaners, gasoline, paint strippers, chemical fertilizers, insecticides and pesticides, kerosene, pool chemicals, and solvents. Advance notices are published on the Town website, with accompanying notices in newsletters and in local newspapers.

BMP	Lead Department	Implementation Goal	Measurable goal
Sponsor Household Hazardous Waste Days	Environmental Affairs	July 1, 2017 and continue until permit expires	Years 1 – 5 Held Annually by the Town

(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 Wilton'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

The Town of Wilton will develop a written IDDE plan to detect, locate and eliminate illicit discharges (to the maximum extent practicable) from the MS4 within the Town'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

The Town of Wilton will develop a list (spreadsheet or database) and map(s) of all priority area stormwater discharges from a pipe or conduit located within and owned or operated by the Town and 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. the name of the watershed, including the subregional drainage basin number (available from CT ECO at www.cteco.uconn.edu) in which the discharge is located;

This priority area list and mapping will be completed by July 1, 2019. The database will be updated with new information, as needed, and exported into excel format for annual reports.

3.3 Develop citizen reporting program

The Town of Wilton 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 and/or other means for submitting a report. The Town will investigate and eliminate any illicit discharges for which a time and location of discharge are provided. The Town will promptly inspect the reported outfall or manhole and proceed according to the requirements of the written IDDE program. All citizen reports and responses will be included in the Town's annual report.

3.4 Establish legal authority to prohibit illicit discharges

The Town of Wilton will update, as needed, 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; and
b. 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; and
c. 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

The Town of Wilton 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, the Town will develop and maintain a Sanitary Sewer Overflow (SSO) 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 the 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

The Town of Wilton 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

The Town of Wilton 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;
    - 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.

The Town 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 / Measurable Goal	Lead department(s)	Implementation Goal
Develop written IDDE program	DPW	July 1, 2018
Develop list and maps of all MS4 stormwater outfalls in priority areas	DPW	July 1, 2019
Develop citizen reporting program	DPW / Health / Envl Affairs	July 1, 2018
Establish / update legal authority to prohibit illicit discharges	DPW / P&Z	July 1, 2018
Develop record keeping system for IDDE tracking	DPW / Health / Envl Affairs	July 1, 2017
Address IDDE in areas with pollutants of concern	DPW / Health / Envl Affairs	July 1, 2018
Detailed MS4 infrastructure mapping	DPW	July 1, 2020
Complete list and maps of MS4 stormwater outfalls throughout municipality	DPW	July 1, 2022

(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 Wilton, 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 to meet requirements of MS4 general permit

The Town of Wilton will revise its land use regulations, as needed, to update or 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;
c. The Town 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 Wilton'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 the Town 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 Wilton's MS4 including short-term and long-term inspection and maintenance measures to be implemented by the private owner; and
e. The Town 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

The Town of Wilton will continue to coordinate the functions of all the departments and boards involved in the review, permitting, or approval of land disturbance projects, as outlined in permitting requirements of the primary permitting authorities (e.g. Planning Commission, Inland Wetlands Commission, etc).

4.3 Review site plans for stormwater quality concerns

The Town will continue to 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. The Town 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

The Town of Wilton 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

The Town's procedure for public involvement in proposed and ongoing development and land disturbance activities is as follows:

- The Town routes phone calls or e-mails regarding citizen complaints about on-going land use activities to appropriate staff for review. These complaints may be routed to the DPW, Zoning Enforcement, Environmental Affairs, Health Department, Building Department, or Planning and Zoning.
- Citizen feedback regarding proposed development activities are addressed during the permitting process(es) by the Planning Commission, the Zoning Enforcement Officer, the Inland Wetlands Commission (as applicable), and/or the Zoning Board of Appeals.

The Town will continue its current practices concerning public comment, but will review/revise if necessary to comply with the MS4 permit.

4.6 Implement procedure to notify developers about DEEP construction stormwater permit

The Town 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 Wilton's MS4. The Town will also require a copy of the Storm Water Pollution Control Plan be made available to relevant Town departments on request. The notification procedure will be coordinated by the relevant land use department or commission.

Construction site stormwater management schedule

BMP / Measureable Goal	Lead department	Implementation Goal
Implement, upgrade and enforce land use regs to meet MS4 permit requirements	Planning & Zoning	July 1, 2019
Develop/implement plan for interdepartmental coordination in site plan review and approval	Planning & Zoning	On-going
Review site plans for stormwater quality concerns	Planning & Zoning	On-going
Conduct site inspections	Planning & Zoning	On-going
Implement procedure to allow public comment on site development	Planning & Zoning	On-going
Implement procedure to notify developers about DEEP construction stormwater permit	Planning & Zoning	July 1, 2018

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

This minimum control measure outlines the Town of Wilton'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 Update legal authority and guidelines regarding LID and runoff reduction in site development planning

The Town of Wilton will update the existing legal authority by ordinance, bylaw, regulation, standard condition of approval, or other means to require, to the developers and contractors seeking the Wilton'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 Wilton'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, the Town 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.) 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, the Town 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

The Town of Wilton 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 Wilton'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

The Town 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, the Town will prioritize those areas for the DCIA retrofit program under minimum control measure 6 – Pollution Prevention/Good Housekeeping.

Post-construction stormwater management schedule

BMP/ Measurable goal	Lead Department(s)	Implementation Goal
Update legal authority and guidelines regarding LID and runoff reduction in site development planning	Planning & Zoning	July 1, 2021
Enforce LID/runoff reduction requirements for development and redevelopment projects	Planning & Zoning	July 1, 2021
Implement long-term maintenance plan for stormwater basins and treatment structures	DPW	July 1, 2019
Complete DCIA mapping	DPW	July 1, 2020
Address post-construction issues in areas with pollutants of concern	DPW / P & Z	July 1, 2019

(6) Pollution Prevention / Good Housekeeping

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

Goal:

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

The Town of Wilton will implement an operations and maintenance program to prevent or reduce pollutant runoff from Wilton facilities and protect water quality.

6.1 Develop and implement formal employee training program

The Town will continue its MS4 training program for Wilton 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.

6.2 Implement MS4 property and operations maintenance

Town-owned or operated properties, parks, and other facilities that are owned, operated, or otherwise the legal responsibility of Wilton 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

The Town 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).

The Town 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

The Town will continue to 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 Town-owned recreational areas where dog walking is allowed, Town staff will continue to install educational signage, pet waste baggies, and disposal receptacles (or require carry-out).

The Town will document its efforts in its annual reports.

(iii) Waterfowl management

The Town of Wilton will identify lands where waterfowl congregate and feeding by the public occurs.

To raise awareness regarding the water quality impacts, the Town 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.

The Town 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) Town Buildings and facilities (Wilton public schools), Town offices, police and fire stations, and other Town-owned or operated buildings or utilities

The Town 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

The Town will

- establish procedures for the storage of Town-owned or -operated vehicles;
- require vehicles with fluid leaks to be stored indoors or in contained areas until repaired;
- evaluate fueling areas owned by the Town and used by Town-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

The Town will establish and implement procedures to minimize 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 the Town.

6.3 Implement coordination with interconnected MS4s

The Town of Wilton will coordinate, as needed, with operators of interconnected MS4s 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

The Town of Wilton 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 Bacteria is a Stormwater Pollutant of Concern:

On Town-owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), the Town of Wilton 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 Town-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 projects the disconnect DCIA

The Town 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 Wilton. For each retrofit/redevelopment project, the Town 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, the Town of Wilton's goal will be to reduce 1% of its total DCIA acreage per year to the maximum extent possible. The Town will provide updates on this goal in its annual report. The Town will also incorporate all DCIA disconnections which occurred in the Wilton since July 1, 2012 towards meeting this goal.

6.7 Develop and implement an infrastructure repair, rehabilitation and retrofit program

The Town of Wilton will continue its 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

The Town of Wilton 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). The Town 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 Develop and implement street sweeping program

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

The Town will continue sweeping Wilton-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 Town staff to have increased pollutant potential based on the presence of active construction activity or other potential pollutant sources. The Town 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 Town staff. 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, the Town 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, the Town 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. The Town 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. The Town 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. The Town will also include documentation of any alternate sweeping plan for rural uncurbed streets and any runoff reduction measures implemented.

6.10 Develop and implement catch basin cleaning program

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

a. Inspect all Town-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 Town-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). The Town 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, the Town will document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources. The Town will describe any actions taken in its Annual Report.
e. The Town 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. The Town will keep a log of catch basins cleaned or inspected.
f. The Town of Wilton 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

The Town of Wilton will continue to 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, the Town 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

The Town will 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).

The Town 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.

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

The Town 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.

The Town 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, the Town 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

The Town of Wilton will coordinate with operators of interconnected MS4s as needed 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

The Town 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 Town-owned or -operated lands, the Toiwn of Wilton 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 Town-owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), the Town of Wilton 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 Town-owned or -operated lands, the Town 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 / Measurable Goal	Lead department(s)	Implementation Goal
Develop/implement formal employee training program	DPW / P&Z /Health / Parks & Rec	July 1, 2017
Implement MS4 property and operations maintenance	DPW / Parks & Rec / BOE	July 1, 2017
Implement coordination with interconnected MS4s (as needed)	DPW	July 1, 2017
Develop/implement program to control other sources of pollutants to MS4	DPW / P&Z / Health / Parks & Rec	July 1, 2017
Evaluate additional measures for discharges to impaired waters	DPW / Environmental Affairs	July 1, 2017
Track projects the disconnect DCIA	DPW / P&Z	July 1, 2017
Develop/implement infrastructure repair/rehab program	DPW	July 1, 2017
Develop/implement plan to identify/prioritize retrofit projects	DPW / P&Z	July 1, 2020
Develop/implement street sweeping program	DPW	July 1, 2017
Develop/implement catch basin cleaning program	DPW	July 1, 2017
Develop/implement snow management practices	DPW	July 1, 2017

Outfall Monitoring

The Town of Wilton and its partners 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, the Town 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, the Town 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, the Town will implement measures to address sources of the impairments including the specific impaired waters provisions described within the permit control measures.

Plan Amendments

The Town of Wilton 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."

Lynne Vanderslice, First Selectman — April 4, 2017 — Date

Michael S. Ahern, P.E, Field Engineer — April 3, 2017 — Date

Principal plan preparer

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 Wilton for an activity located at or within the Town of Wilton 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."

Michael S. Ahern, P.E.

Field Engineer

Title

Wilton Department of Public Works

Affiliation

April 3, 2017

Date

APPENDIX A

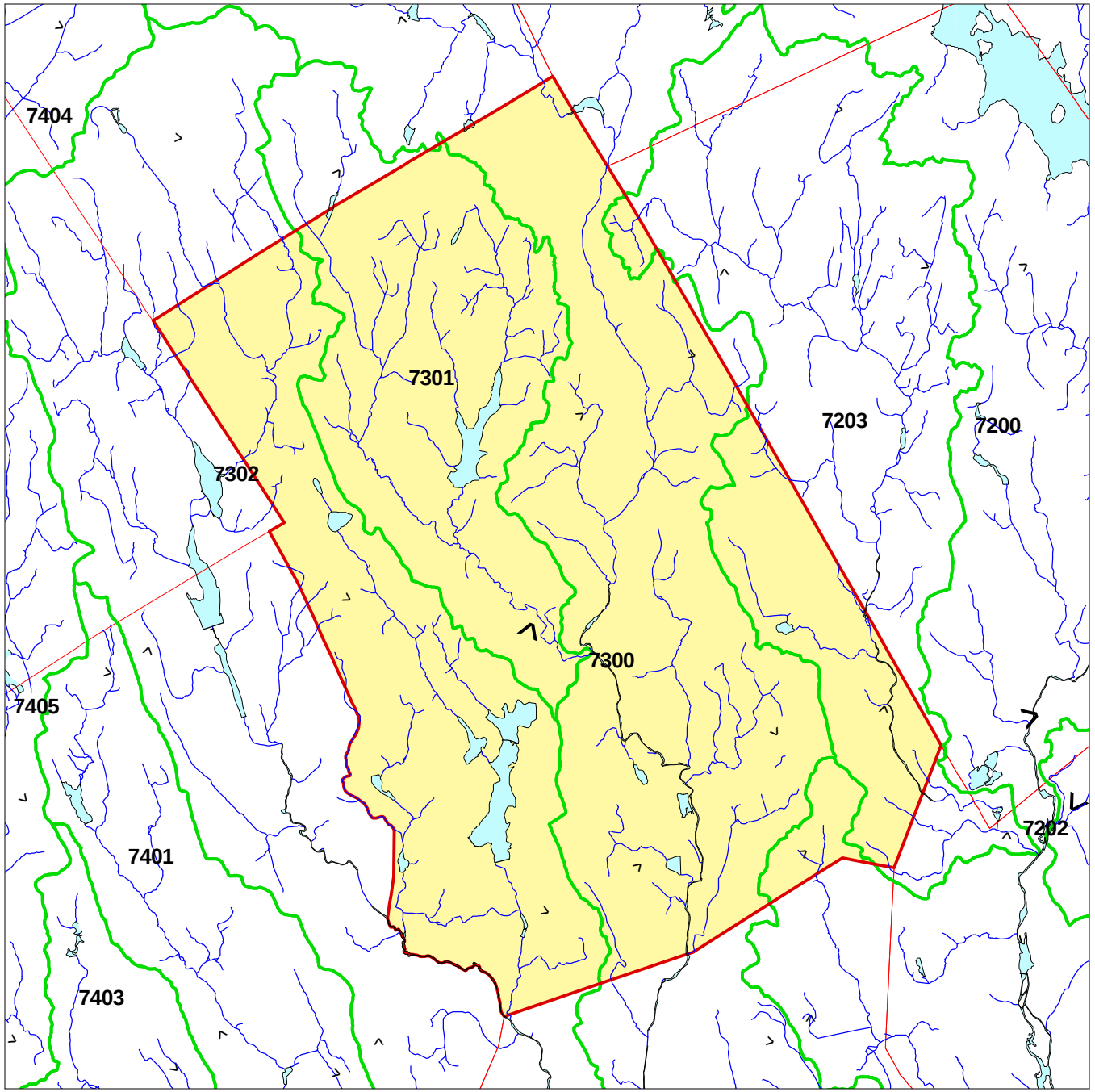
WILTON
CONNECTICUT SUBREGIONAL BASINS AND SURFACE WATER FLOW DIRECTIONS

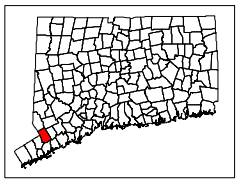
Explanation

- Town Boundary
- Subregional Watershed Boundary
- **4201** Subrg. Basin ID# - as designated by CTDEP
- Watercourse / Open Water
- Basin Outlet
- Surface Water Flow Direction

The table provides statistics for each subregional basin. Shown are the areas of the basin within the town, the percentage for that area, and the percent of the town covered by each basin.

Sbas_nc	AcresInTw	Percofbs	Percoftwn
7200	318.81	1.0	1.8
7203	1777.93	23.3	10.2
7300	6609.76	31.7	37.8
7301	4046.03	86.1	23.1
7302	4738.78	32.9	27.1





Town Area: 17491 Acres

Digital layers provided by the CTDEP.
Map composed by the NEMO project.
For educational purposes only.

1 0 1 Miles

The University of Connecticut, CES: November 02, 1999

Figure No. 1 (Wilton MS4 Plan)

Figure No. 2
Water Quality Classifications (Wilton MS4 Plan)
(Source: Water Quality Classifications, CT DEEP, November 2015)

APPENDIX B

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

Factsheet: Town of Wilton Water Quality and Stormwater Summary

This document was created for each town that has submitted monitoring data under the current Small Municipal Separate Storm Sewer System (MS4) General Permit. What follows is information on how stormwater can affect water quality in streams and rivers and a summary of data submitted by your town. This factsheet is intended to help you interpret your monitoring results and assist you in compliance with the MS4 program.

Water Quality in Connecticut

Surface waters are important resources that support numerous uses, including water supply, recreation, fishing, shellfishing and sustaining aquatic life. Water quality conditions needed to support these uses are identified within the Connecticut Water Quality Standards (WQS). In order to protect and restore these uses, we need acceptable environmental conditions (physical, chemical and biological) to be present within surface waters.

To assess and track water quality conditions, CT DEEP conducts monitoring across the State. The data is synthesized into a biennial state water quality report called the Integrated Water Quality Report. Currently, specific water quality monitoring in the state encompasses about 50% of rivers, 47% of lakes, and 100% of estuary/coastline. In addition, CT DEEP may have information about certain land uses or discharges which could indicate a potential for water quality to be impacted, even if the waterbody has not been fully monitored and assessed.

To find more detailed information on water quality in your town, please see the Integrated Water Quality Report (IWQR) on the CT DEEP website at www.ct.gov/deep/iwqr. Information on water quality within your town is also presented on the maps included in this fact sheet.

Impacts of Impervious Cover on Water Quality

Impervious cover (IC) refers to hard surfaces across the landscape such as roads, sidewalks, parking lots and roofs. Studies have focused on the amount of hard surfaces to evaluate the impacts of stormwater runoff from these hard surfaces on water quality and found that IC affects both the quantity and quality of stormwater. IC forces rain to runoff the land, carrying pollutants quickly and directly to lakes and streams instead of soaking into the ground and being filtered by the soil. For more information on impervious cover, please see the CT DEEP web page www.ct.gov/deep/imperviouscoverstudies and EPA's web page www.epa.gov/caddis/ssr_urb_is1.html.

In general, the higher the percentage of IC in a watershed, the poorer the surface water quality. Research in Connecticut strongly suggests that aquatic life will be harmed when the IC within a

watershed exceeds 12%. Stormwater pollution from IC is a likely cause of impairment for these waterbodies.

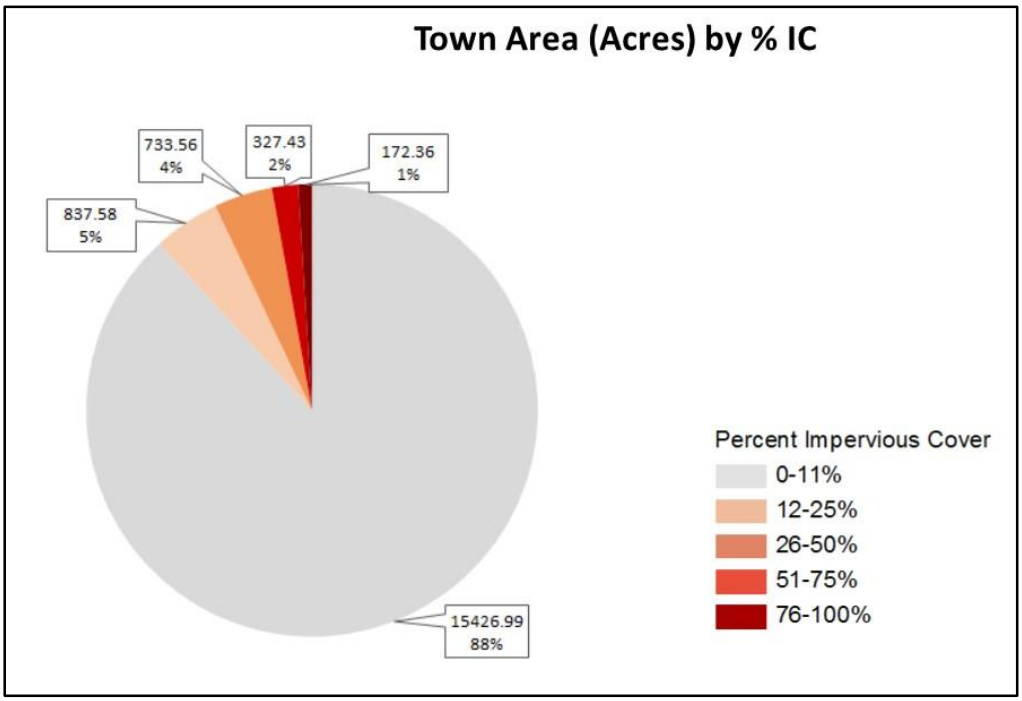
Town of Wilton: Impervious Cover Data

This chart shows the amount of area within your town that contains IC. Data is grouped by acres and percent IC. While all levels of IC can contribute stormwater to streams, it is important to note that land with IC greater than 12% in town is likely to be contributing enough stormwater to streams to have a negative impact on water quality.

Towns should aim to make stormwater improvements in areas with IC greater than 12% in an effort to reduce the amount of stormwater pollution reaching surface waters which will protect and improve water quality.

For more information on areas of impervious cover within your town, please see the maps at the back of this factsheet.

Amounts of Impervious Cover within the Town of Wilton



Pollution Reduction

Waterbodies often can handle a certain amount of pollutants and still maintain good water quality. However, impaired waterbodies have too much pollution impacting their water quality and therefore the streams do not support all uses for the waterbody. Total Maximum Daily Loads (TMDLs) are pollution reduction budgets developed for impaired waterbodies in order to meet

water quality. If the pollution budget is achieved through the recommended pollution reduction measures, then the waterbody is expected to meet water quality. CT DEEP also supports impaired waters restoration through watershed based plans (www.ct.gov/deep/watershed) which provide more specific non-point source pollution control measures. The following TMDLs or pollution reduction strategies have been developed and apply to areas within your town.

TMDLs or Strategies Applicable to the Town of Wilton

Name of TMDL or Strategy	**Pollutant**	**Waterbody Name**	**Link**
Statewide Bacteria TMDL	Bacteria	West Branch Saugatck River / Cobbs Mill Brook	www.ct.gov/deep/lib/deep/water/tmdl/statewidebacteria/westbranchsaugatuckriver7203.pdf
Statewide Bacteria TMDL	Bacteria	Silvermine River	www.ct.gov/deep/lib/deep/water/tmdl/statewidebacteria/silvermineriver7302.pdf
Statewide Bacteria TMDL	Bacteria	Saugatuck River / Beaver Brook / Kettle Creek / Poplar Plain Brook	www.ct.gov/deep/lib/deep/water/tmdl/statewidebacteria/saugatuck7200.pdf
TMDL Analysis for Unnamed Intermittent Tributary To Belden Hill Brook Wilton, CT	Chlorine	Unnamed Intermittent Tibutary To Belden Hill Brook	www.ct.gov/deep/lib/deep/water/tmdl/tmdl_final/beldenhilltmdlfinal.pdf
A TMDL Analysis for the Norwalk River Regional Basin	Bacteria	Norwalk River / Ridgefield Brook / Silvermine River	www.ct.gov/deep/lib/deep/water/tmdl/tmdl_final/norwalktmdlfinal.pdf
A TMDL Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound	Nitrogen	Long Island Sound and contributing watersheds	www.ct.gov/deep/lib/deep/water/lis_water_quality/nitrogen_control_program/tmdl.pdf
Northeast Regional Mercury TMDL	Mercury	All CT Inland waters	www.ct.gov/deep/lib/deep/water/tmdl/tmdl_final/ne_hg_tmdl.pdf
Interim Phosphorus Reduction Strategy	Phosphorus	Certain CT Inland waters	www.ct.gov/deep/lib/deep/water/water_quality_standards/p/interimmgntphosstrat_042614.pdf

For more information on these TMDLs or strategies please go to our website www.ct.gov/deep/tmdl.

Stormwater Quality Monitoring

Regular monitoring for targeted pollutants in stormwater provides an indication of potential for water quality impacts and helps identify sources and unlawful discharges. Annual monitoring at 6 locations from different areas of town has been a requirement of the MS4 permit since 2004. CT DEEP uses that information to evaluate the quality of stormwater and the potential for impacts to surface waters as well as to make sure that stormwater is managed properly.

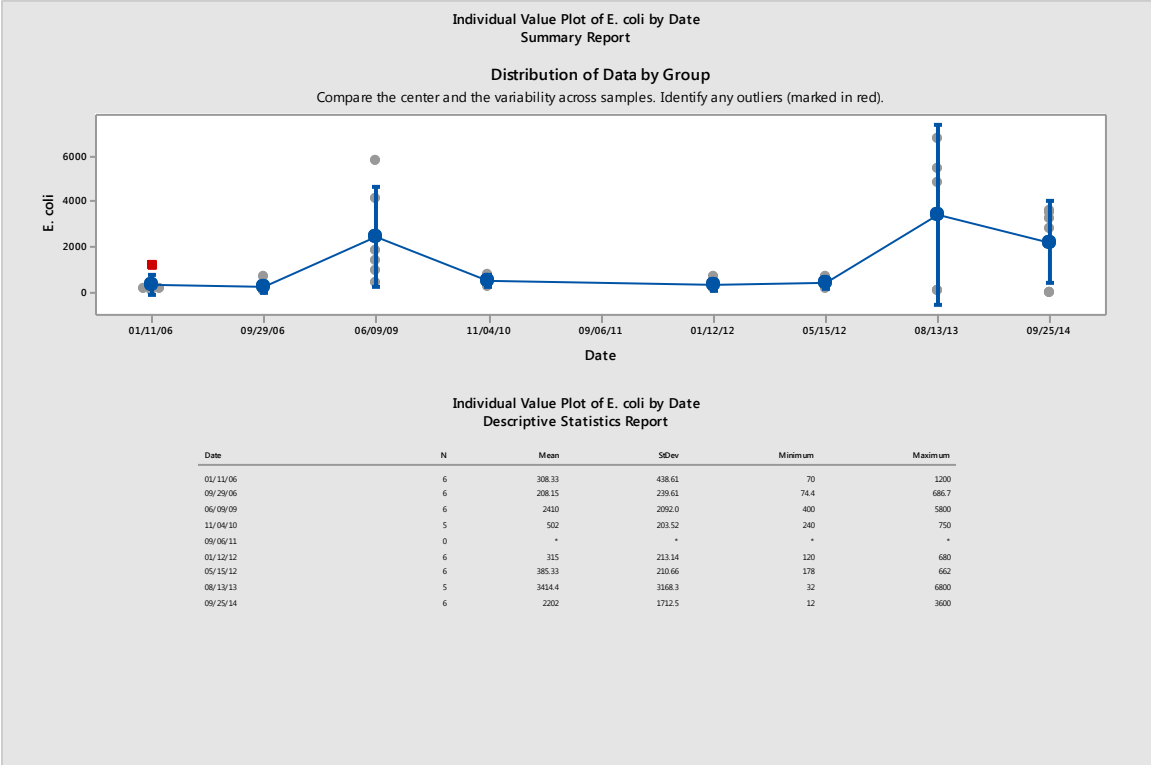
Below are 5 graphs tracking stormwater results submitted by your town for 5 parameters reported under the current MS4 General Permit. The results of each stormwater test submitted to CT DEEP by your town is shown. Individual sample results are shown in grey while the average of the samples collected on a particular day is shown in blue, with a line connecting the averages for the various sample dates. The bars show the statistical range of samples for each day with the red squares showing results which are considered to be outliers, that is, very different from the other samples collected on that day. The chart on the graph lists the sample dates and some basic statistics:

Statistic	**Description**
N	Number of stormwater samples collected on that date
Mean	Average of the results reported for that sample date
Standard Deviation (StdDev)	A measure of the variability of the results for the sample date
Minimum	The lowest sample result for the sample date
Maximum	The highest sample result for the sample date

Bacteria

Escherichia coli (*E. coli*) is a bacteria that lives in the intestines of humans and other warm-blooded animals and is used to indicate the presence of fecal matter in surface waters. Some strains of *E. coli* and other pathogens found in fecal material cause serious illness in people coming in contact with it. For this reason, high amounts of bacteria will cause authorities to close beaches for swimming. Bacteria is measured as the number of colony forming units, or CFU, per 100 ml of water. Any result that was reported as "to numerous to count" is included on the chart as 800,000 CFU/100 mL.

Results of annual stormwater monitoring under MS4 permit for *E.coli* (CFU/ 100 mL of sample)
Town of Wilton



Individual Value Plot of E. coli by Date
Descriptive Statistics Report

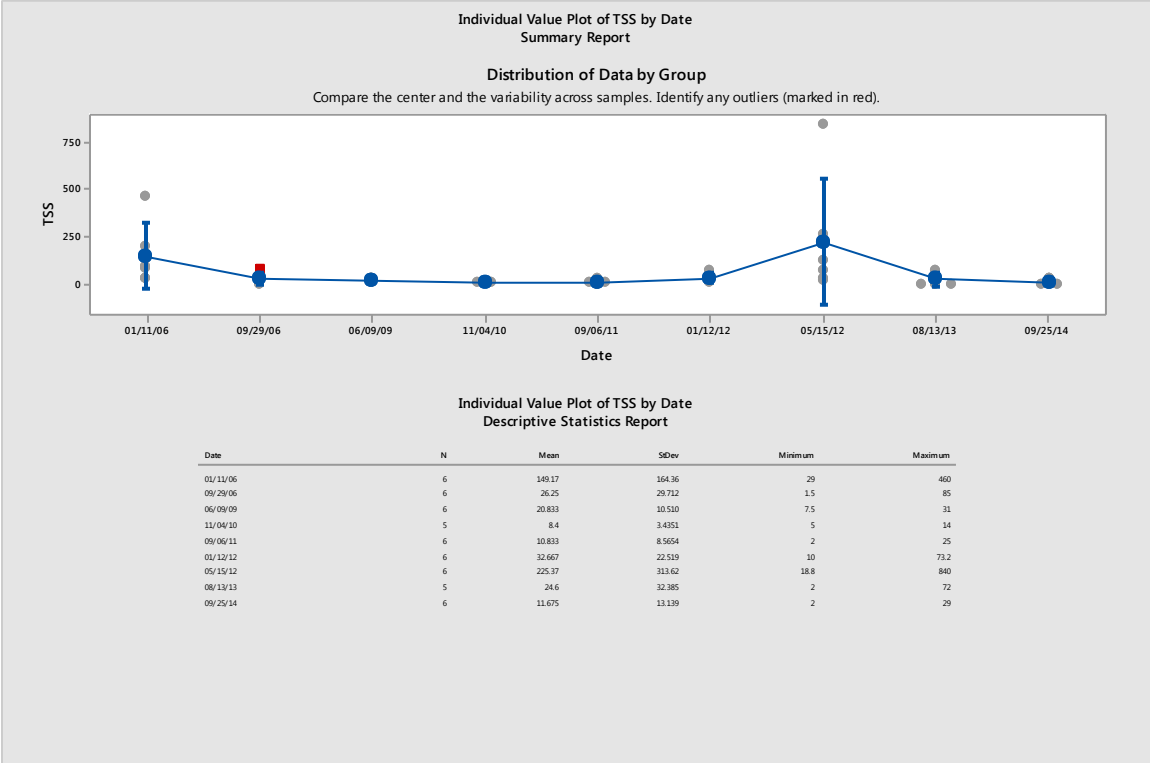
Date	N	Mean	StDev	Minimum	Maximum
01/11/06	6	308.33	438.61	70	1200
09/29/06	6	208.15	239.61	74.4	686.7
06/09/09	6	2410	2092.0	400	5800
11/04/10	5	502	203.52	240	750
09/06/11	0	*	*	*	*
01/12/12	6	315	213.14	120	680
05/15/12	6	385.33	210.66	178	662
08/13/13	5	3414.4	3168.3	32	6800
09/25/14	6	2202	1712.5	12	3600

To support recreational uses of surface waters, the CT DEEP Water Quality Standards indicate that the average amount of *E. coli* found in a freshwater water body should be less than 126 CFU/100 mL and that a single sample tested for *E. coli* should be less than 235 CFU/100 mL at a designated swimming area and less than 410 CFU/100 mL in other areas. Monitoring for *E. coli* is currently required in the MS4 permit. Enterococci is another bacteria used to indicate the presence of fecal material in salt water environments. For recreation in salt water the Water Quality Standards indicate that average amount of Enterococci should be less than 35 CFU/100 mL in a designated swimming area and that a single sample tested for Enterococci should be less than 104 CFU/100 mL and in all other areas less than 500 CFU/100 mL. These targets have been included in the statewide bacteria TMDLs. In the Draft MS4 permit, *E.coli* results higher than 235 CFU/100 mL at a designated swimming area or greater than 410 CFU/100 mL in other areas requires a follow-up investigation. Individual stormwater sample results that exceed the applicable single sample maximum value for bacteria could impact water quality, so the associated outfalls should be evaluated for additional stormwater management.

Total Suspended Solids

Total Suspended Solids (TSS) is a measurement of the amount of solids (including sand and silt) found in the stormwater sample. High concentrations of TSS can lower water quality in the receiving stream by transporting various pollutants to the waterbody where they can directly affect aquatic life or affect aquatic life by absorbing light, reducing photosynthesis, and by making the water warmer. TSS can also clog fish gills and smother fish eggs and suffocate the organisms that fish eat. TSS comes from erosion and is found in agricultural, urban and industrial runoff. TSS can be reduced by protecting land from erosion and allowing stormwater time to settle before discharging to surface waters.

Results of annual stormwater monitoring under the MS4 general permit for TSS (mg/L)
Town of Wilton



Individual Value Plot of TSS by Date
Descriptive Statistics Report

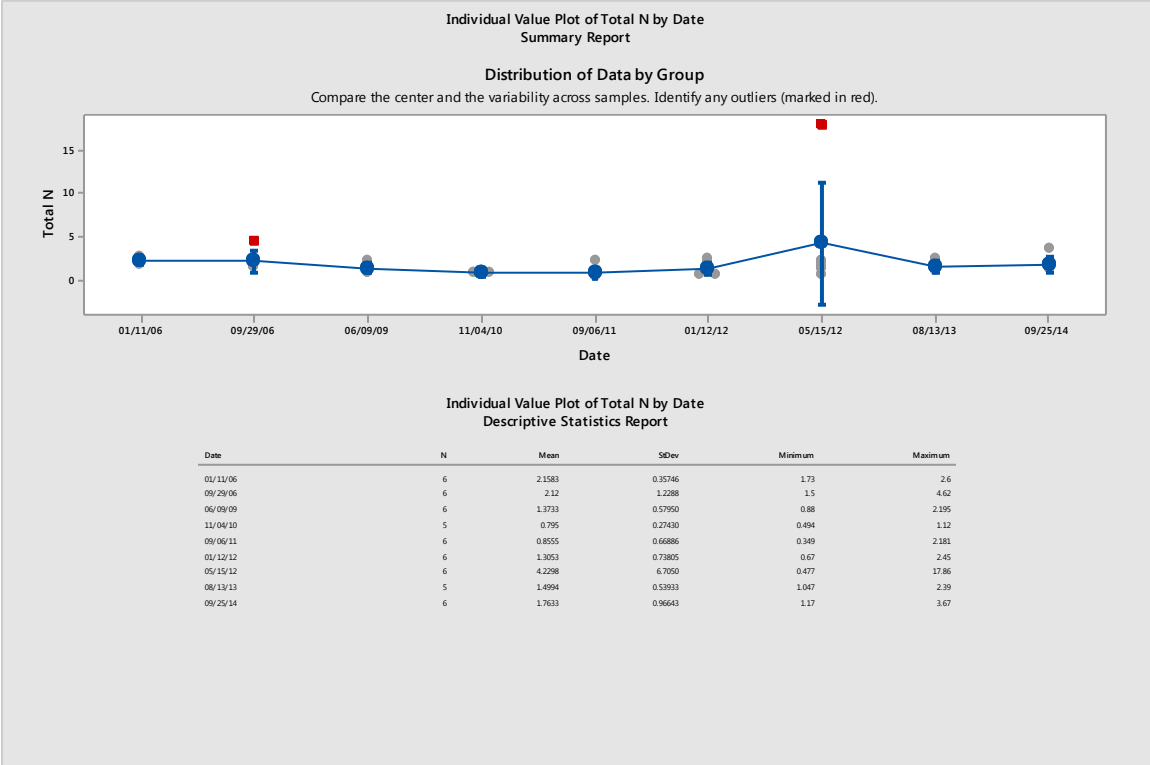
Date	N	Mean	StDev	Minimum	Maximum
01/11/06	6	149.17	164.36	29	460
09/29/06	6	26.25	29.712	1.5	85
06/09/09	6	20.833	10.510	7.5	31
11/04/10	5	8.4	3.4351	5	14
09/06/11	6	10.833	8.5654	2	25
01/12/12	6	32.667	22.519	10	73.2
05/15/12	6	225.37	313.62	18.8	840
08/13/13	5	24.6	32.385	2	72
09/25/14	6	11.675	13.139	2	29

Currently, there is not a water quality based target for TSS in stormwater but TSS is a general indicator of water quality and, lower amounts of TSS are better. For comparison purposes, the average MS4 stormwater result reported for TSS by all towns covered by this permit is 48 mg/L. Areas within your town which have elevated TSS may be places to consider additional stormwater management efforts.

Total Nitrogen

Nitrogen is an important nutrient in marine and estuarine waters such as Long Island Sound, as well as a concern in fresh water lakes and rivers. High amounts of nitrogen can lead to excessive growth of water plants and algae which then reduces the amount of oxygen available to living things in these waters. Unlawful discharges, animal waste, failing septic systems, leaves, litter and fertilizers are common sources of high nitrogen in stormwater. Responsible use of fertilizers, maintaining septic systems and proper disposal of pet waste will help reduce nitrogen in stormwater.

Results of annual stormwater monitoring under MS4 general permit for total nitrogen (Total N mg/L)
Town of Wilton



Individual Value Plot of Total N by Date
Descriptive Statistics Report

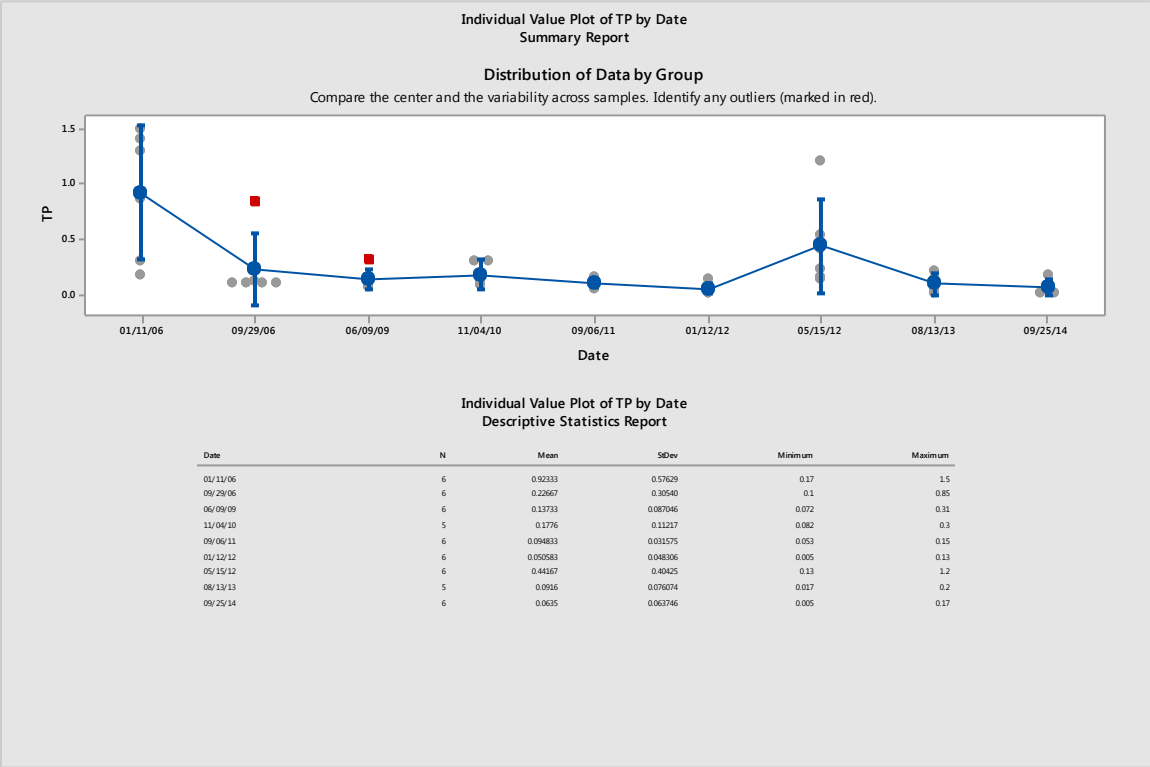
Date	N	Mean	StDev	Minimum	Maximum
01/11/06	6	2.1583	0.35746	1.73	2.6
09/29/06	6	2.12	1.2288	1.5	4.62
06/09/09	6	1.3733	0.57950	0.88	2.195
11/04/10	5	0.795	0.27430	0.494	1.12
09/06/11	6	0.8555	0.66886	0.349	2.181
01/12/12	6	1.3053	0.73805	0.67	2.45
05/15/12	6	4.2298	6.7050	0.477	17.86
08/13/13	5	1.4994	0.53933	1.047	2.39
09/25/14	6	1.7633	0.96643	1.17	3.67

The TMDL for Long Island Sound requires a 10% reduction of nitrogen in stormwater discharges to prevent low oxygen conditions in Long Island Sound. Each town should be working to reduce the amount of nitrogen in their stormwater to address this issue. Under the current draft MS4 permit, any result for total nitrogen greater than 2.5 mg/L will require a follow-up investigation. Areas within your town which have elevated nitrogen may be places to consider additional stormwater management activities.

Total Phosphorus

Phosphorus is an important nutrient necessary for growth in plants and animals in freshwater. Too much phosphorus in the water can throw off the balance of aquatic ecosystems causing excessive growth of water plants and algae blooms, which reduces the amount of oxygen in the water, potentially harming the fish. Sometimes these algae blooms can contain toxic forms of algae which are harmful to people and animals that come into contact with it. Sources of high phosphorus can be unlawful discharges, fertilizers, litter, leaves, erosion and animal waste.

Results of annual stormwater monitoring under MS4 permit for total phosphorus (mg/L)
Town of Wilton



Individual Value Plot of TP by Date
Descriptive Statistics Report

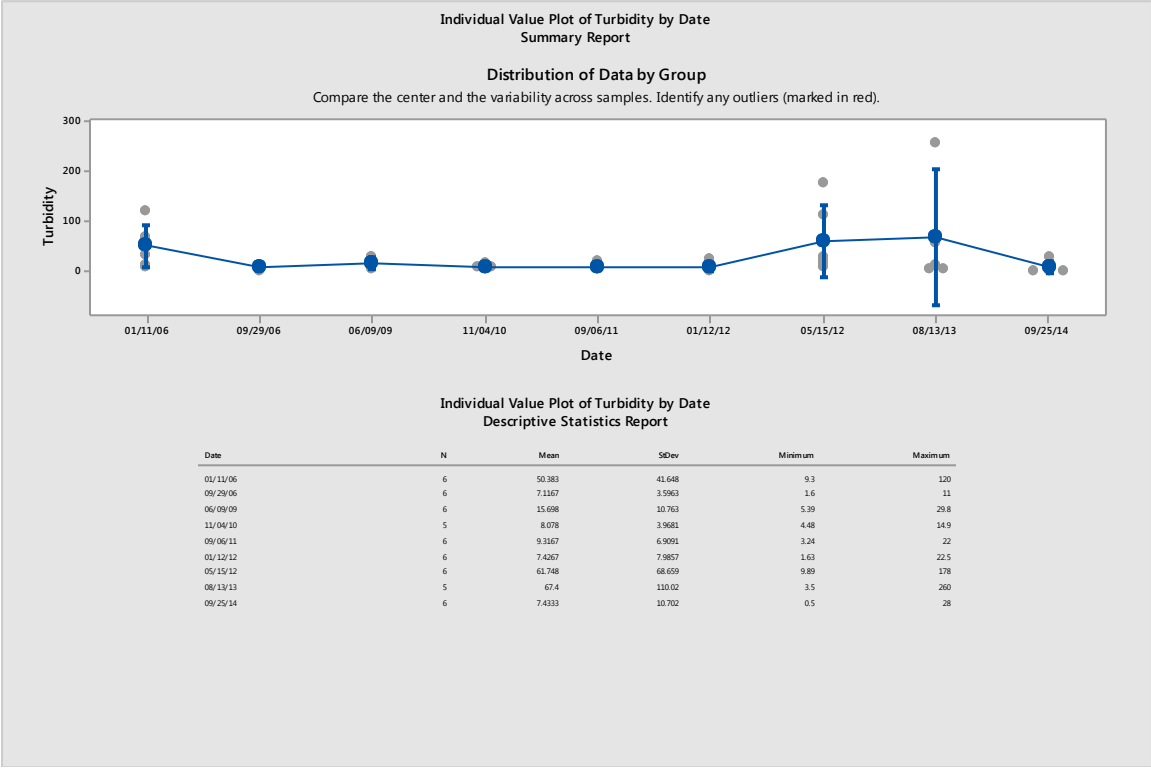
Date	N	Mean	StDev	Minimum	Maximum
01/11/06	6	0.92333	0.57629	0.17	1.5
09/29/06	6	0.22667	0.30540	0.1	0.85
06/09/09	6	0.13733	0.087046	0.072	0.31
11/04/10	5	0.1776	0.11217	0.082	0.3
09/06/11	6	0.094833	0.031575	0.053	0.15
01/12/12	6	0.050583	0.048306	0.005	0.13
05/15/12	6	0.44167	0.40425	0.13	1.2
08/13/13	5	0.0916	0.076074	0.017	0.2
09/25/14	6	0.0635	0.063746	0.005	0.17

CT DEEP is actively working with many towns to reduce the amount of phosphorus reaching Connecticut's streams and rivers. Under the current draft MS4 permit, a total phosphorus result greater than 0.3 mg/L will require a follow-up investigation. Areas of your town that have elevated levels of phosphorus in the stormwater are good places to develop additional stormwater controls.

Turbidity

Turbidity measures the clarity of the stormwater sample. It measures how much material (soil, algae, pollution, microbes etc.) is suspended in the sample. High turbidity lowers the water quality of a surface water by blocking sunlight for the plants and makes food harder for the fish to find and may be an indication of a higher amounts of other pollution in the water. Surface waters with high turbidity are visually less appealing for recreational use. High turbidity can be caused by erosion, failing septic systems, decaying plants or animals, and excessive algae growth. Turbidity is reported in Nephelometric Turbidity Units (NTU) which is related to how easily light passes through the water sample.

Results of annual stormwater monitoring under MS4 permit for turbidity (NTU)
Town of Wilton



Individual Value Plot of Turbidity by Date
Descriptive Statistics Report

Date	N	Mean	StDev	Minimum	Maximum
01/11/06	6	50.383	41.648	9.3	120
09/29/06	6	7.1167	3.5963	1.6	11
06/09/09	6	15.698	10.763	5.39	29.8
11/04/10	5	8.078	3.9681	4.48	14.9
09/06/11	6	9.3167	6.9091	3.24	22
01/12/12	6	7.4267	7.9857	1.63	22.5
05/15/12	6	61.748	68.659	9.89	178
08/13/13	5	67.4	110.02	3.5	260
09/25/14	6	7.4333	10.702	0.5	28

The Water Quality Standards have a criterion that indicates turbidity should not to exceed 5 NTU above ambient levels. In the draft MS4 permit, a turbidity result greater than 5 NTU over in-stream conditions will require a follow-up investigation. While there is not a fixed statewide criterion for turbidity, lower results are better for the health of the surface waters in town. Areas with higher levels of turbidity in stormwater would be a good place to develop additional stormwater controls.

Town Maps

The following maps were created to show the impervious cover (IC) in your town as well as the water quality in the rivers, streams, lakes and estuaries in and around your town.

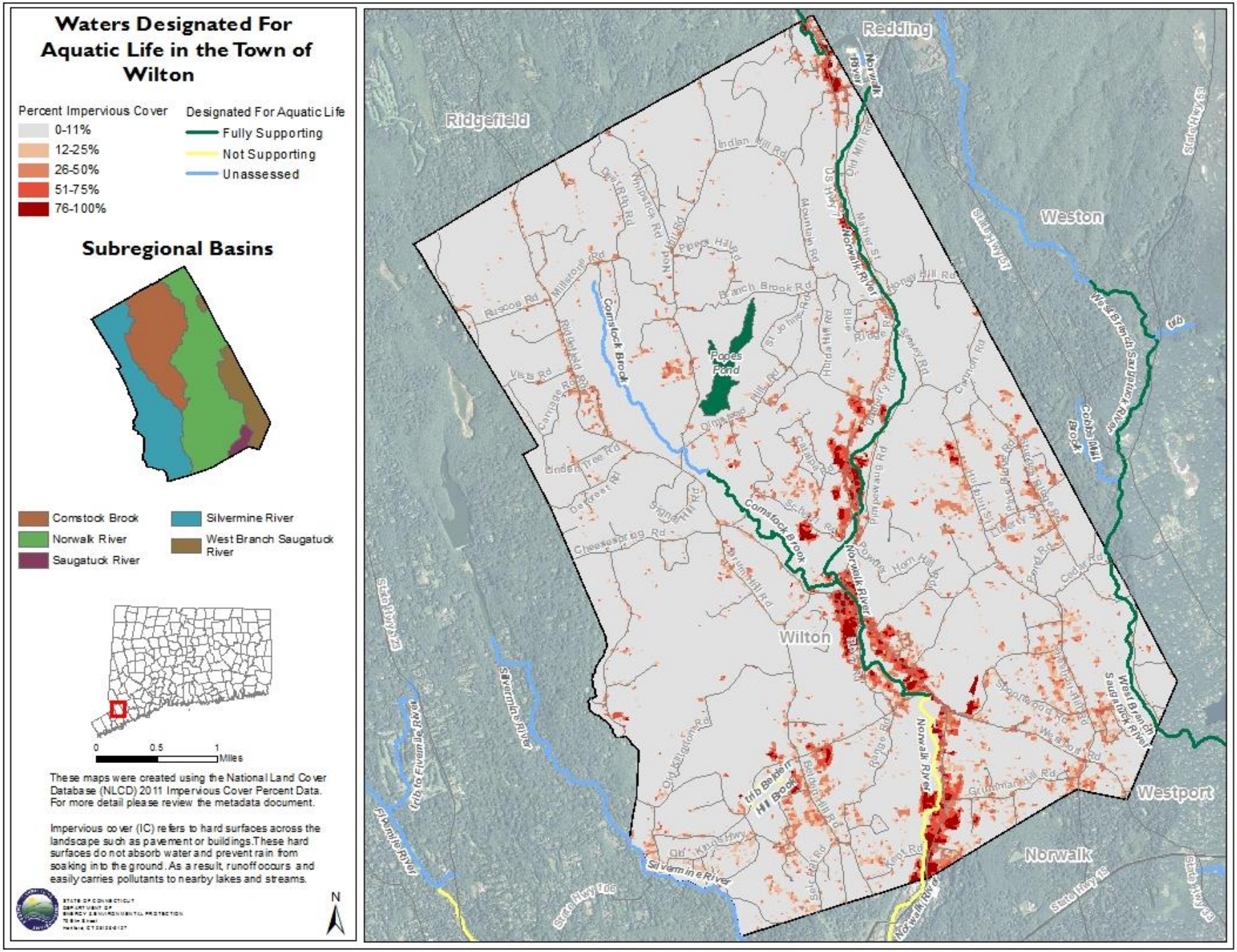
Impervious Cover on the Town Maps

IC is shown in red on the maps. Dark red areas indicate a higher percentage of IC, lighter red areas have less IC, while the grey areas indicate very little or no IC.

Water Quality on the Town Maps

Separate maps are provided for the different uses of the waterbodies such as Aquatic Life Uses, Recreation, and Shellfishing (in coastal towns). The waterbodies are colored to show the health of the waterbody. Green means that the waterbody meets the water quality requirements to fully support the specified use. Yellow means that water quality is poor and that the specified use is not met. Blue means that there is not enough information to know whether or not water quality is good or bad to support the specified use. Additionally, a small map is provided on the left side of each larger map to show which watersheds are within your town.

Waters Designated For Aquatic Life in the Town of Wilton



Waters Designated For Recreation in the Town of Wilton

Percent Impervious Cover
- 0-11%
- 12-25%
- 26-50%
- 51-75%
- 76-100%

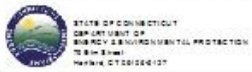
Designated For Recreation
- Fully Supporting
- Not Supporting
- Unassessed

Subregional Basins

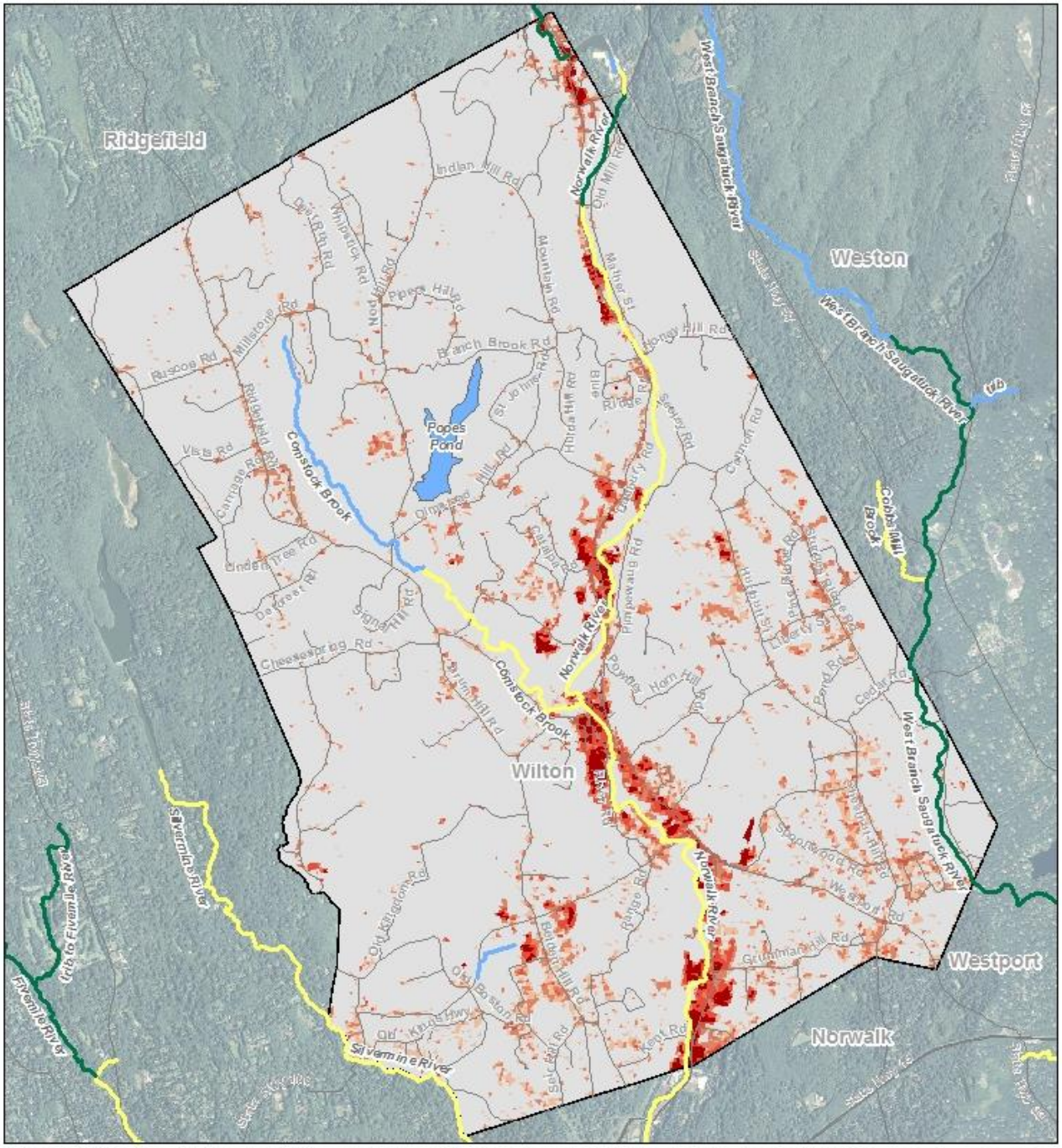
- Comstock Brook
- Norwalk River
- Saugatuck River
- Silvermine River
- West Branch Saugatuck River

These maps were created using the National Land Cover Database (NLCD) 2011 Impervious Cover Percent Data. For more detail please review the metadata document.

Impervious cover (IC) refers to hard surfaces across the landscape such as pavement or buildings. These hard surfaces do not absorb water and prevent rain from soaking into the ground. As a result, runoff occurs and easily carries pollutants to nearby lakes and streams.



N



APPENDIX C

Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

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

CPPU USE ONLY
App #:
Doc #:
Check #:
Program: Stormwater Permits

Please complete this form in accordance with the general permit (DEEP-WPED-GP-021) in order to ensure the proper handling of your registration. Please print or type unless otherwise noted. The Registration fee must be submitted with this registration.

Part I: Registration Type

1. This registration is for a (check one): ☐ *New* general permit registration ☒ *Renewal* of an existing registration ☐ A *modification* of an existing registration	For renewals or modifications: Existing permit number: GSM **000040**
2. Registrant Type (check one):	**Fees**
☐ state institution/agency	$625.00 [513]
☐ federal institution/agency	$625.00 [513]
☒ municipality	$312.50 [513]
3. Municipality name or Municipality where institution is located: **Town of Wilton**	
The registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection or by such other method as the commissioner may allow.	

Part II: Registrant Information

1. Registrant (Name of Municipality or State or Federal Institution/Agency): Town of Wilton

Mailing Address: 238 Danbury Road

City/Town: Wilton State: CT Zip Code: 06897

Business Phone: 203-563-0100 ext.:

Contact Person: Lynn Vanderslice, First Selectman Phone: 203-563-0100 ext.

*E-mail:

*By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.

Part II: Registrant Information (continued)

2. **Billing contact, if different than the registrant.**

Name: **Wilton DPW**

Mailing Address: 238 Danbury Road

City/Town: Wilton State: CT Zip Code: 06897

Business Phone: 203-563-0152 ext.:

Contact Person: Thomas Thurkettle, P.E., Director of Public Works Phone: 203-563-0152 ext.

*E-mail: dpw@wiltonct.org

3. **Primary contact for departmental correspondence and inquiries, if different than the registrant.**

Name: **Wilton DPW**

Mailing Address: 238 Danbury Road

City/Town: Wilton State: CT Zip Code: 06897

Business Phone: 203-563-0152 ext.:

Contact Person: Thomas Thurkettle, P.E., Director of Public Works Phone: 203-563-0152 ext.

*E-mail: dpw@wiltonct.org

4. **Attorney or other representative, if applicable:**

Firm Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Attorney: Phone: ext.

*E-mail:

5. **Facility Operator, if different than the registrant:**

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person: Phone: ext.

*E-mail:

7. **Engineer(s) or other consultant(s) employed or retained to assist in preparing the registration or in designing or constructing the activity.** ☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person: Phone: ext.

*E-mail:

Service Provided:

8. ☐ Check here if there are adjacent towns or other entities with which implementation of the Stormwater Management Plan is coordinated for a portion of the subject MS4. If so, provide the names of such towns or entities: _____

Part III: Watershed Information

Provide the following information about the receiving water(s) that receive stormwater runoff from your MS4:

The watershed ID and impaired waters status can be found on the CT ECO website: http://ctecoapp1.uconn.edu/advancedviewer/

a) To what receiving stream, watershed or waterbody does your MS4 discharge?	b) What is your watershed ID (freshwater) or 305b ID (estuary)?	c.1) Is the receiving water identified as an impaired water?	*If you answered yes to question c.1, then answer the question below.* c.2) Has any Total Maximum Daily Load (TMDL) been approved for your receiving waterbody? For more information, go to www.ct.gov/deep/tmdl	*If you answered yes to question c.2, then answer the question below.* If TMDL, identify the impairment
Comstock Brook	7301-00	☒ YES ☐ NO	☒ YES ☐ NO	E. Coli
Norwalk River (southern segment)	7300-00	☒ YES ☐ NO	☐ YES ☒ NO	
Norwalk River (northern segment)	7300-00	☒ YES ☐ NO	☒ YES ☐ NO	E. Coli
Silvermine River	7302-00	☒ YES ☐ NO	☒ YES ☐ NO	E. Coli
Goetzen Brook	7300-11	☐ YES ☒ NO	☐ YES ☐ NO	
Barretts Brook	7301-04	☐ YES ☒ NO	☐ YES ☐ NO	
Popes Pond	7301-04	☐ YES ☒ NO	☐ YES ☐ NO	
Upper Nod Pond	7301-04	☐ YES ☒ NO	☐ YES ☐ NO	
East Branch Comstock Brook	7301-02	☐ YES ☒ NO	☐ YES ☐ NO	
Parting Brook	7302-11	☐ YES ☒ NO	☐ YES ☐ NO	
East Branch Silvermine River	7302-04	☐ YES ☒ NO	☐ YES ☐ NO	
Silver Spring Brook	7302-05	☐ YES ☒ NO	☐ YES ☐ NO	
Scotts Brook	7302-03	☐ YES ☒ NO	☐ YES ☐ NO	
Bryant Brook	7300-12	☐ YES ☒ NO	☐ YES ☐ NO	
Kents Pond	7302-12	☐ YES ☒ NO	☐ YES ☐ NO	

☒ Check here if there are more receiving watersheds and attach an additional sheet listing them with the required information requested above.

Part III: Watershed Information

Provide the following information about the receiving water(s) that receive stormwater runoff from your MS4:

The watershed ID and impaired waters status can be found on the CT ECO website: http://ctecoapp1.uconn.edu/advancedviewer/

a) To what receiving stream, watershed or waterbody does your MS4 discharge?	b) What is your watershed ID (freshwater) or 305b ID (estuary)?	c.1) Is the receiving water identified as an impaired water?	*If you answered yes to question c.1, then answer the question below.* c.2) Has any Total Maximum Daily Load (TMDL) been approved for your receiving waterbody? For more information, go to www.ct.gov/deep/tmdl	*If you answered yes to question c.2, then answer the question below.* If TMDL, identify the impairment
West Branch Saugatuck River	7203-00	☐ YES ☒ NO	☐ YES ☐ NO	
Huckleberry Hills Brook	7302-12	☐ YES ☒ NO	☐ YES ☐ NO	
Chestnut Hill Brook	7300-13	☐ YES ☒ NO	☐ YES ☐ NO	
Copts Brook	7300-15	☐ YES ☒ NO	☐ YES ☐ NO	
Old South Norwalk Reservoir	7302-13	☐ YES ☒ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	
		☐ YES ☐ NO	☐ YES ☐ NO	

☐ Check here if there are more receiving watersheds and attach an additional sheet listing them with the required information requested above.

Part IV: MS4 Information

1. Name of Municipality or State or Federal Institution/Agency : **Town of Wilton**

   Primary Address or Location Description: **238 Danbury Road**

   City/Town: **Wilton** State: **CT** Zip Code: **06897**

2. **INDIAN LANDS:** Is there any activity included in, or proposed to be implemented by, your Stormwater Management Plan that will be located on federally recognized Indian lands? ☐ Yes ☒ No

3. **COASTAL BOUNDARY:** Is there any ***new*** activity included in, or proposed to be implemented by, your Stormwater Management Plan that will be located within the coastal boundary as delineated on DEEP approved coastal boundary maps?

   ☐ Yes ☒ No

   If yes, and this registration is for a new authorization or a modification of an existing authorization where the physical footprint of the subject activity is modified, your Stormwater Management Plan must contain provisions to assure compliance with Connecticut's Coastal Management Act (CCMA), sections 22a-90 through 22a-112 of the Connecticut General Statutes (CGS), as amended.

   Information on the coastal boundary is available at www.cteco.uconn.edu/map_catalog.asp (Select the town and then select coastal boundary. If the town is not within the coastal boundary you will not be able to select the coastal boundary map.) or the local town hall or on the "Coastal Boundary Map" available at DEEP Maps and Publications (860-424-3555).

4. **ENDANGERED OR THREATENED SPECIES:** According to the most current "State and Federal Listed Species and Natural Communities Map", is there any ***new*** activity included in, or proposed to be implemented by, your Stormwater Management Plan, that will be located within an area identified as a habitat for endangered, threatened or special concern species?

   ☐ Yes ☒ No Date of Map:

   If yes, your Stormwater Management Plan must contain provisions to assure compliance with the State Endangered Species Act CGS section 26-310(a).

   For more information visit the DEEP website at www.ct.gov/deep/nddbrequest or call the NDDB at 860-424-3011.

5. **AQUIFER PROTECTION AREAS:** Is the MS4 or any portion of the MS4 located within a mapped Level A or Level B Aquifer Protection Area, as defined in CGS section 22a-354a through 22a-354bb?

   ☒ Yes ☐ No

   If yes, your Stormwater Management Plan must contain provisions to assure compliance with the Aquifer Protection Regulations (section 22a-354i(1)-(10) of the Regulations of Connecticut State Agencies).

   For more information on the Aquifer Protection Area Program visit the DEEP website at www.ct.gov/deep/aquiferprotection or contact the program at 860-424-3020.

6. **CONSERVATION OR PRESERVATION RESTRICTION:** Is there any ***new*** activity included in, or proposed to be implemented by, your Stormwater Management Plan that will be located within a conservation or preservation restriction area?

   ☐ Yes ☒ No

   If Yes, your Stormwater Management Plan must contain provisions to assure compliance with CGS section 47-42d where proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be kept on site.

Part IV: MS4 Information (Continued)

7. **STATE AND FEDERAL HISTORIC PRESERVATION**: Is there any activity included in, or proposed to be implemented by, your Stormwater Management Plan that may result in impacts or potential effects on historic properties? ☐ Yes ☒ No

   If Yes, your Stormwater Management Plan must contain provisions to assure consistency with the state Historic Preservation statutes, regulations, and policies including identification of any potential impacts on property listed or eligible for listing on the Connecticut Register of Historic Places. A review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this qualification.

8. **DISCHARGE TO IMPAIRED WATERS:** Is there any activity included in, or proposed to be implemented by, your Stormwater Management Plan that will result in a ***new or increased*** discharge from the MS4 to waters listed as impaired in the most recent Connecticut Integrated Water Quality Report pursuant to Clean Water Act section 303(d) and 305(b)?

   ☐ Yes ☒ No

   If Yes, your Stormwater Management Plan must demonstrate that there is no net increase in loading to the impaired water of the pollutant for which the waterbody is impaired.

9. **DISCHARGE TO HIGH QUALITY WATERS:** Any ***new or increased*** stormwater discharge to high quality waters shall be discharged in accordance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards.

Part V: Supporting Documentation

Check the applicable box below for each attachment being submitted with this registration form. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this registration form.

☒	Attachment A:	Stormwater Management Plan: **(REQUIRED for ALL registrants)** ☐ Provide URL: _____ ***or*** ☒ submit an electronic copy to the web address indicated at the end of this form.
☒	Attachment B:	An 8 1/2" X 11" copy of the relevant portion or a full-sized original of a USGS Quadrangle Map indicating the exact location of the MS4/Institution/Agency. Indicate the quadrangle name on the map. **(REQUIRED for ALL registrants)**
☒	Attachment C:	Best Management Practices Table (attached to this form) **(REQUIRED for ALL registrants)**

Part VI: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered insufficient unless *all* required signatures are provided ***and are the proper signatory authority.*** (If the registrant is the preparer, please mark N/A in the spaces provided for the preparer.)

"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 (MS4), submitted to the commissioner by the Town of Wilton for an activity located at or within the Town of Wilton.and that all terms and conditions of the general permit are being met for all discharges which have been initiated 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 the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. 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. 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."

Signature of Registrant/Authorized Representative	April 3, 2017. Date
Lynne Vanderslice Printed Name of Registrant/Authorized Representative	First Selectman Title (if applicable)
Signature of Preparer (if different than above)	April 3, 2017 Date
Michael S. Ahern, P.E. Printed Name of Preparer	Field Engineer Title (if applicable)

☐ Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet. Signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.) must be included.

Part VII: Qualified Professional Certification

The qualified professional, as defined in the subject general permit, must sign this part. A registration will be considered insufficient unless *all* required signatures are provided ***and are the proper signatory authority.***

"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 Town of Wilton for an activity located at or within the Town of Wilton. 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 section shall be construed to authorize a professional engineer or a landscape architect to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

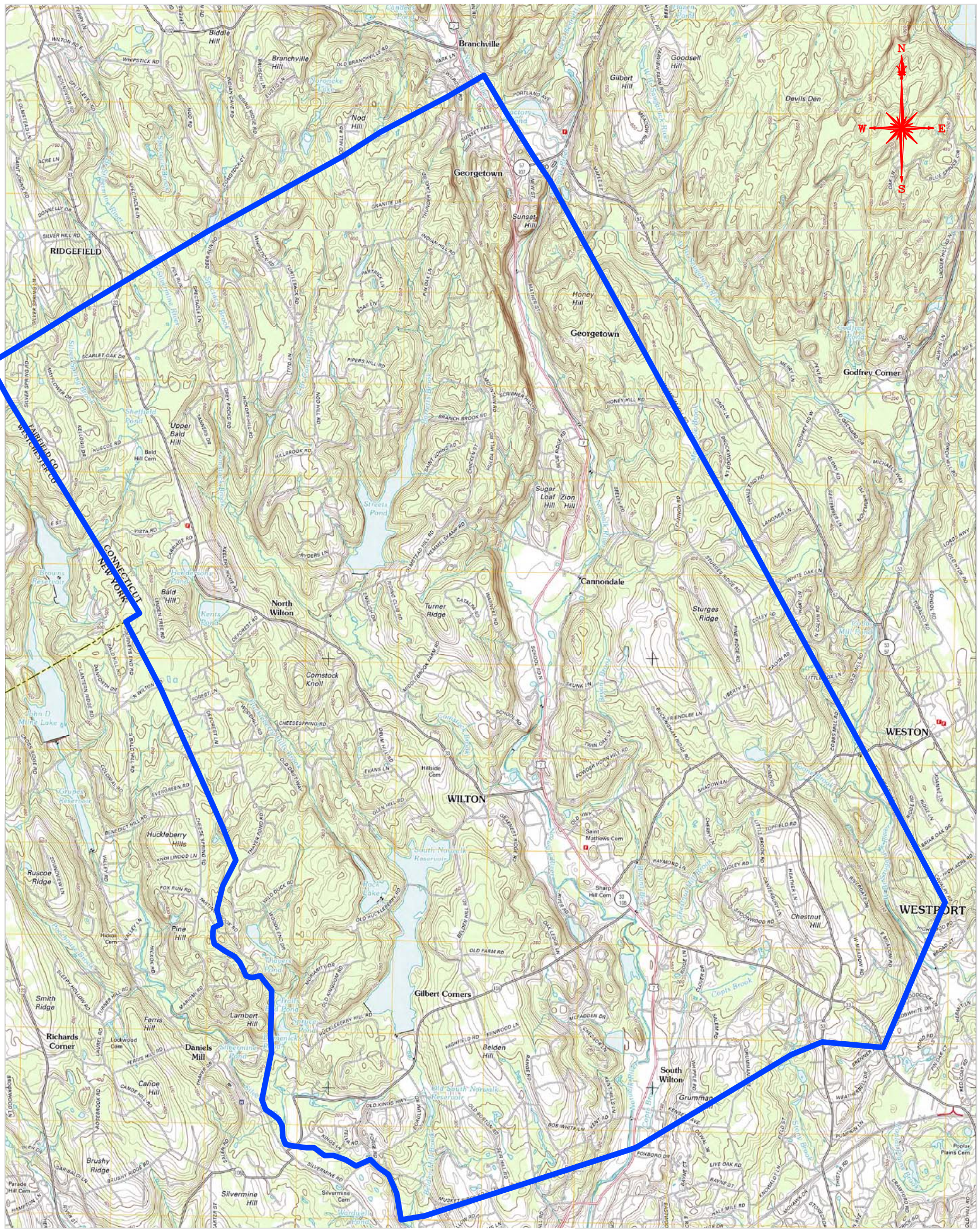
Signature of Qualified Professional	April 2, 2017 Date
Michael S. Ahern, P.E. Printed Name of Qualified Professional	Field Engineer Title (if applicable)
PEN 0027318 Qualified Professional License Number	
Signature of Preparer (if different than above)	Enter Date Date
Enter Name Printed Name of Preparer	Enter Title Title (if applicable)

☐ Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet. Signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.) must be included.

All completed and supporting materials (along with the fee) are to be submitted to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

An electronic copy must also be sent to DEEP.StormwaterStaff@ct.gov



Sources: Norwalk North, CT–NY (2012) and Bethel, CT (2012) USGS 7.5 Minute Quadrangles

WILTON MS4 BOUNDARY

04/02/2017 – Wilton DPW

Q:\DPW Drawings\Stormwater & MS4 Permit Dwgs\USGS Location Map for MS4_4-02-2017.dwg, 4/3/2017 2:52:13 PM, Adobe PDF

Best Management Practices (BMPs)

For each Minimum Control Measure (MCM), list existing or proposed BMPs, the department/parties that will be responsible for implementing each BMP, the goals(s) you expect to achieve, and the month and year that the BMP will be implemented. Please note that certain mandatory minimum BMPs identified in the MS4 General Permit are already listed.

Name of City/Town: **Town of Wilton**

Name of Institution (if applicable):

Address: **238 Danbury Road**

Existing permit number (if applicable): GSM **00040**

	MCM(1) Public Education and Outreach	Responsible Department/Parties	Measurable Goal	Month/Year of Implementation
1-1	Implement public education program	**DPW / Conservation Commission**	**Stormwater Library**	**Ongoing**
1-2	Address education/outreach for pollutants of concern	**DPW / Conservation Commission**	**Newsletters, Links via Town & NRWA websites**	**Ongoing**
1-3	**Stormwater Page on Town Website**	**DPW / IT**	**Publish & maintain stormwater webpage on Town website**	**07/2017**
1-4				
1-5				
1-5				
1-7				
1-8				
1-9				
1-10				
	MCM(2) Public Involvement/Participation	**Responsible Department/Parties**	**Measurable Goal**	**Month/Year of Implementation**
2-1	Comply with public notice requirements for the Stormwater Management Plan and Annual Reports	**DPW**	**Public notice for MS4 Plan and Annual Reports each year. 30-day comment period for Plan and Annual reports.**	**04/2017**
2-2	**Town and Norwalk River Clean-up Day**	**Environmental Affairs**	**Continue on annual basis**	**Ongoing**
2-3	**Household Hazardous Waste Day(s)**	**Environmental Affairs**	**Continue on annual basis**	**Ongoing**
2-4				
2-5				
2-6				
2-7				
2-8				
2-9				
2-10				

BMPs (continued)

	MCM(3) Illicit Discharge Detection & Elimination	Responsible Department/Parties	Measurable Goal	Month/Year of Implementation
3-1	Develop written IDDE program	DPW	Written IDDE program	7/1/2018
3-2	Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas	DPW	Map priority outfalls	7/1/2019
3-3	Develop citizen reporting program	DPW / Health / Envl Affairs	Develop reporting process	7/1/2018
3-4	Establish legal authority to prohibit illicit discharges	DPW / P&Z	Update legal authority	7/1/2018
3-5	Develop record keeping system for IDDE tracking	DPW / Health / Envl Affairs	Log for illicit discharges	7/1/2017
3-6	Address IDDE in areas with pollutants of concern	DPW / Health / Envl Affairs	Input into IDDE program	7/1/2018
3-7	**Detailed MS4 infrastructure mapping**	DPW	Update mapping	7/1/2020
3-8	**Map all MS4 outfalls**	DPW	Complete mapping	7/1/2022
3-9				
3-10				
	MCM(4) Construction Site Runoff Control	**Responsible Department/Parties**	**Measurable Goal**	**Month/Year of Implementation**
4-1	Implement, upgrade (as necessary) and enforce land use regs or other legal authority to meet requirements of MS4 general permit	Planning & Zoning (P&Z)	Update existing regs	7/1/2019
4-2	Develop/implement plan for interdepartmental coordination in site plan review and approval	Planning & Zoning	Update process as needed	On-going
4-3	Review site plans for stormwater quality concerns	Planning & Zoning	Update process as needed	On-going
4-4	Conduct site inspections	Planning & Zoning	Update process as needed	On-going
4-5	Implement procedure to allow public comment on site development	Planning & Zoning	Update process as needed	On-going
4-6	Implement procedure to notifiy developers about DEEP construction stormwater permit	Planning & Zoning	Update existing procedures	7/1/2018
4-7				
4-8				
4-9				
4-10				

BMPs (continued)

	MCM(5) Post-Construction Stormwater Management	Responsible Department/Parties	Measurable Goal	Month/Year of Implementation
5-1	Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Planning & Zoning (P&Z)	Update regs as needed	7/1/2021
5-2	Enforce LID/runoff reduction requirements for development and redevelopment projects	Planning & Zoning	Project enforcement	7/1/2021
5-3	Implement long-term maintenance plan for stormwater basins and treatment structures	DPW	Track Progress	7/1/2019
5-4	DCIA mapping	DPW	Input into Town Mapping	7/1/2020
5-5	Address post-construction issues in areas with pollutants of concern	DPW / P&Z	Prioritize and Address Areas	7/1/2019
5-6				
5-7				
5-8				
5-9				
5-10				
	MCM(6) Pollution Prevention/Good Housekeeping	**Responsible Department/Parties**	**Measurable Goal**	**Month/Year of Implementation**
6-1	Develop/implement formal employee training program	DPW / P&Z / Health/Parks&Rec	Formal Training Programs	7/1/2017
6-2	Implement MS4 property and operations maintenance	DPW / Parks & Rec / Bd of Ed	Update O&M as needed	7/1/2017
6-3	Implement coordination with interconnected MS4s	DPW	Coordinate as needed	7/1/2017
6-4	Develop/implement program to control other sources of pollutants to the MS4	DPW / P&Z / Health/Parks&Rec	Pollutant Control Programs	7/1/2017
6-5	Evaluate additional measures for discharges to impaired waters	DPW / Envl Affairs	Document Addl Measures	7/1/2017
6-6	Track projects that disconnect DCIA	DPW / P&Z	Document DCIA Disconnect	7/1/2017
6-7	Develop/implement infrastructure repair/rehab program	DPW	Document Repairs / Rehab	7/1/2017
6-8	Develop/implement plan to identify/prioritize retrofit projects	DPW / P&Z	Document Projects	7/1/2017
6-9	Develop/implement street sweeping program	DPW	Document Progress	7/1/2017
6-10	Develop/implement catch basin cleaning program	DPW	Document Progress	7/1/2017
6-11	Develop/implement snow management practices	DPW	Document Updates/Progress	7/1/2017
	Monitoring Requirements	**Responsible Department/Parties**	**Measurable Goal**	**Month/Year of Implementation**
S-1	Outfall screening	DPW	Document Results	7/1/2019
S-2	Inventory and mapping of discharges to impaired waters	DPW	Prepare Inventory	7/1/2018
S-3	Follow-up investigations of drainage areas	DPW / Envl Affairs / Health	Drainage Investigations	7/1/2020
S-4	Annual monitoring of priority outfalls	DPW	Document in Annual Report	7/1/2020