



**Town of Weston, Connecticut**

**2018 Annual Report**

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

**Permit Number GSM000106**

MS4 General Permit  
Town of Weston 2018 Annual Report  
Existing MS4 Permittee  
Permit Number GSM 000106  
January 01, 2018 - December 31, 2018

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This report documents the Town of Weston's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 01, 2018 to December 31, 2018.

**Part I: Summary of Minimum Control Measure Activities**

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

**1.1 BMP Summary**

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	In Place	The Town of Weston website has the following resources on the town website at:  <a href="http://www.westonct.gov/townhall/">http://www.westonct.gov/townhall/</a>  Stormwater Management Plan 2011 MS4 Annual Report  Stormwater Sampling Results August 25, 2011 October 19, 2011  Stormwater Resources:	Met	Town Administrator/ Jonathan Luiz	July 01, 2018	Prior to July 01, 2017 and Continuing	Additional materials will be added when developed

		<p>The Water Cycle - What happens When It Rains?</p> <p>USGS Water Cycle Graphic</p> <p>Clean Waters - Starting in Your Home and Yard Fact Sheets developed as a collaboration of the Connecticut Sea Grant Extension Program and the University of Connecticut Cooperative Extension System's NEMO Project. The following Fact Sheets are posted:</p> <p>What's the Big Deal About Water Quality  Managing Your Household Chemicals  Caring for Your Septic System  Integrated Pest Management and Biological Controls for the Homeowner  Conservation Landscaping for Water Quality  Animal Waste and Water Quality  Going Native - Rethinking Plant Selection for the Home Landscape  Lawn Care the Environmentally-Friendly Way  The Four Seasons of Water Quality Protection  Conserving Water at Home  Environmentally Responsible Boating</p> <p>Website Links:</p> <p>CT DEEP  US EPA</p>					
1-2 Address education/ outreach for pollutants of concern*	In Place	<p>The Town of Weston website has the following resources addressing bacteria sources in stormwater on the town website at:</p> <p><a href="http://www.westonct.gov/townhall/">http://www.westonct.gov/townhall/</a></p> <p>What's the Big Deal About Water Quality  Caring for Your Septic System  Animal Waste and Water Quality</p>	Met	Town Administrator/ Jonathan Luiz	July 01, 2017	Prior to July 01, 2017 and Continuing	Additional materials will be added when developed.

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

Additional Public Education and Outreach resources will be added to the town website to educate residents on MS4 stormwater.

**1.3 Details of activities implemented to educate the community on stormwater**

<b>Program Element/Activity</b>	<b>Audience (and number of people reached)</b>	<b>Topic(s) covered</b>	<b>Pollutant of Concern addressed (if applicable)</b>	<b>Responsible dept. or partner org.</b>

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

### 2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan	Completed	The Weston 2017 Stormwater Management Plan (SMP) will be added to The Town of Weston website.	Complied with Requirements	Town Administrator/ Jonathan Luiz	April 03, 2017	The 2017 SMP was available to the public on April 12, 2017.	No public comments were received by the Office of the First Selectman
2-2 Comply with public notice requirements for Annual Reports	Completed	The Draft 2017 Weston MS4 Annual Report was made available for public review and comment on the town website.  The Draft 2017 MS4 Annual Report will be made available for public review and comment at the Office of the First Selectman.	Complied with requirements	Town Administrator/ Jonathan Luiz	February 15, 2018	May 09, 2018	The Draft 2017 Annual Report will be revised if any pertinent public comments are received.
	Completed	The Draft 2018 Weston MS4 Annual Report was made available for public review and comment on the town website.  The Draft 2018 MS4 Annual Report will be made available for public review and comment at the Office of the First Selectman.	Complied with requirements	Town Administrator/ Jonathan Luiz	February 15, 2019	February 15, 2019	The Draft 2018 Annual Report will be revised if any pertinent public comments are received.

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

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**2.3 Public Involvement/Participation reporting metrics**

<b>Metrics</b>	<b>Implemented</b>	<b>Date</b>	<b>Posted</b>
2017 Availability of the 2017 Stormwater Management Plan announced to public to meet FOIA requirements	No	Not Applicable	Not Applicable Will be Posted
2017 - Availability of 2017 MS4 Annual Report announced to public to meet FOIA requirements	Yes	04/17/2018	Town Website and Office of the Town Administrator
2018 - Availability of 2018 MS4 Annual Report announced to public to meet FOIA requirements	Yes	02/15/2019	Town Website and Office of the Town Administrator

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

#### 3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	In Progress	The Town of Weston is in the process of completing a written IDDE program using the IDDE program template available from the CT DEEP.	Develop written plan of IDDE program	Town Administrator/ Jonathan Luiz and Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2018	Anticipate completing by July 01, 2019.	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Almost Completed	MS4 stormwater outfall mapping will be completed in the Spring of 2018. It is anticipated that the MS4 stormwater outfall mapping will be completed using a map grade handheld GPS unit and compiled as a ESRI GIS layer of the town GIS mapping.  The GIS mapping will include impaired waters as contained in the State of Connecticut, Department of Energy and Environmental Protection 2016 Integrated Water Quality Report. The	Map MS4 stormwater outfalls Development of an ESRI GIS map layer with MS4 stormwater outfalls.	Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2019	Anticipate completing by July 01, 2019.	

		stormwater outfalls in the impaired waters will be identified.					
3-3 Implement Citizen Reporting Program	In Progress	A program to allow the general public to report suspected illicit discharges is in the process of being set up. It is anticipated that the Office of the First Selectman will be the entity to accept citizen reporting of suspected illicit discharges.	Program Development	Town Administrator/ Jonathan Luiz	July 01, 2018	Anticipate completing by July 01, 2019.	
3-4 Establish legal authority to prohibit illicit discharges	Completed	An Illicit Discharge Detection and Elimination (IDDE) Ordinance was adopted on December 06, 2018.	IDDE Ordinance Enactment	Town Administrator/ Jonathan Luiz and the Board of Selectman by Town Meeting and adoption.	July 01, 2018	December 06, 2018.	
3-5 Develop record keeping system for IDDE tracking	To Be Developed	A program to record IDDE tracking is in the process of being developed. It is anticipated that the record keeping system will be maintained by the Office of the First Selectman.	Tracking System Program Development	Town Administrator/ Jonathan Luiz and Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2018	Anticipate completing by July 01, 2019.	
3-6 Address IDDE in areas with pollutants of concern	To Be Developed	All MS4 Stormwater Outfalls which directly discharge to the bacteria impaired segments of Beaver Brook, Cobbs Mill Brook and Kettle Creek will be sampled in 2019 to	Identification of outfalls which discharge directly to bacteria impaired waters. The outfalls will be	Town Administrator/ Jonathan Luiz and Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2018		



		determine if the outfalls are sources of the bacterial impairment.	sampled by wet weather sampling in 2019.				

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

The written IDDE Program will be posted on the town website. The MS4 Annual Reports will update the written IDDE program as needed throughout the permit term.

John Conte, Town Engineer will maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process

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

Date of Report	Location / suspected source	Response taken
2017 - 0		
2018 - 0		

**3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2012 through end of reporting period using the following table. **The Town of Weston has no sanitary sewers****

Location (Lat long/ street crossing /address and receiving water)	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume discharged	Known or suspected cause / Responsible party	Corrective measures planned and completed (include dates)	Sampling data (if applicable)

**3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.**

Once the Illicit Discharge Detection and Elimination Ordinance has been enacted, and the Illicit Discharge Citizen Reporting Program is in place, it is anticipated that the Office of the First Selectman will receive the complaint and have either John Conte, Town Engineer or the Westport Weston Health District conduct a field investigation to determine the best method to identify the suspected illicit discharge. Once the illicit discharge has been tentatively identified specific methodologies will be employed to correctly determine if the discharge is illicit in nature. If the discharge is an illicit discharge the appropriate measure as contained in the IDDE Ordinance will be employed to eliminate the illicit discharge.

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

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
2017 - Mark A.R. Cooper, MPH, RS, Director of Health for the Westport Weston Health District was contacted to determine if any subsurface sewage disposal system failures resulted in illicit discharges. Director Cooper indicated that no illicit discharges were known to have occurred in town.	None required	Not Applicable
2018 - Mark A.R. Cooper, MPH, RS, Director of Health for the Westport Weston Health District was contacted to determine if any subsurface sewage disposal system failures resulted in illicit discharges. Director Cooper indicated that no illicit discharges were known to have occurred in town.	None required	Not applicable

**3.7 IDDE reporting metrics**

Metrics	
Estimated or actual number of MS4 outfalls	440
Estimated or actual number of interconnections	To Be Determined
Outfall mapping complete	95%

Interconnection mapping complete	95%
System-wide mapping complete (detailed MS4 infrastructure)	95%
Outfall assessment and priority ranking	0%
Dry weather screening of all high and low priority outfalls complete	5%
Catchment investigations complete	5%
Estimated percentage of MS4 catchment area investigated	5%

**3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).**

The Department of Public Works will be provided with a copy of the publication entitled *Illicit Discharge Detection and Elimination Manual, A Handbook for Municipalities*, Published January 2003 by the New England Interstate Water Pollution Control Commission.

The Department of Public Works will be provided with a copy of the publication entitled *Illicit Discharge Detection and Elimination, A Guidance Manual for Program Development and Technical Assessments, and Technical Appendices* Published October 2004 by the Center for Watershed Protection and Robert Pitt of the University of Alabama.

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

##### 4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 General Permit	To Be Completed	The required elements of Minimum Control Measure No. 4 - Construction Site Runoff Control will be incorporated into the town land use regulations.	Land Use Department awareness of the need to review the appropriate land use regulations to attain compliance.	Land Use Director/ Tracy Kulikowski  Land Use Commissions  Land Use Commission Attorney(s)	July 01, 2019	July 01, 2019	It is anticipated that UConn CLEAR and/or a Regional Planning Agency will provide a Post-construction Stormwater Management template for use by all MS4 Towns.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Ongoing	John Conte, Town Engineer, prepares land use review letters for all larger land use applications.	Interdepartmental Coordination	Land Use Department	July 01, 2017	Ongoing	
4-3 Review site plans for stormwater quality concerns	Ongoing	John Conte, Town Engineer, encourages the use of LID and Stormwater BMPs practices as contained in the 2004 Connecticut Stormwater Quality Manual and new stormwater management technologies as they are developed.	Compliance	Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2017	Ongoing	
4-4 Conduct site inspections	Ongoing	The town conducts construction site inspections for	Compliance with Approved Plans	Town Engineer/John Conte	July 01, 2017	Ongoing	

		proper implementation and maintenance of soil erosion and sediment control measures.					
4-5 Implement procedure to allow public comment on site development	Ongoing	The land use application process allows for public comment on land use applications during the Public Hearing Process when applicable.	Compliance	Land Use Department and Land Use Commissions	July 01, 2017	Ongoing	
4-6 Implement procedure to notify developers about the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (CT DEEP Construction Stormwater General Permit)	Ongoing	John Conte, Town Engineer, will make developer's engineers aware of the need to register for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities in engineering review letters which are typically prepared as part of the land use application process.	Awareness of the need to register for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities	Land Use Director/Tracy Kulikowski  Town Engineer/John Conte	July 01, 2017	Ongoing	

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

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

### 5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In Place	The land use regulations will be revised to incorporate the Minimum Control Measure No. 5 - Post Construction Runoff Control.	Compliance	Land Use Director/Tracy Kulikowski  Land Use Commissions and Land Use Town Attorney	July 01, 2021	July 01, 2017	It is anticipated that UConn CLEAR and/or a Regional Planning Agency will provide a Post-construction Stormwater Management template for use by all MS4 Towns.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In Place	John Conte, Town Engineer, encourages the use of LID and Stormwater BMPs practices as contained in the 2004 Connecticut Stormwater Quality Manual and new stormwater management technologies as they are developed.	Compliance	Land Use Director/Tracy Kulikowski  Town Engineer/John Conte	July 01, 2019	July 01, 2017	
5-3 Identify retention and detention ponds in priority areas	Partially Developed	Retention Ponds, Detention Ponds and Hydrodynamic Separators will be inventoried townwide. A GIS Map Layer will be created.	A stormwater management inventory will be developed and will be updated as needed.	Department of Public Works/ Lou Martirano, Director and Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2019	Prior to July 01, 2019	

5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	To Be Developed and Implemented	After the Retention Ponds, Detention Ponds and Hydrodynamic Separators have been inventoried a Long-Term Operation and Maintenance Plan will be implemented.	Under Development	Department of Public Works/ Lou Martirano, Director	July 01, 2019	Prior to July 01, 2019	
5-5 DCIA mapping	Completed	Completed the process of 2012 Baseline DCIA Mapping from base mapping prepared by UConn CLEAR.	The DCIA to MS4 stormwater outfalls discharging to waters identified as impaired in the 2016 Integrated Water Quality Report and in watersheds with impervious surface coverage of greater than 11 percent was completed in 2018.	Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2020	February 2019	
5-6 Address post-construction issues in areas with pollutants of concern	To Be Addressed	Based on a review of sampling conducted from 2004 to 2016, the town will encourage utilization of new stormwater management technologies to reduce bacteria loading to the Saugatuck River and West Branch of the Saugatuck River.	Stormwater outfalls discharging to waters identified as impaired in the 2016 Integrated Water Quality Report will be subject to enhanced water quality treatment.	Land Use Director/Tracy Kulikowski  Town Engineer/John Conte  Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	Not specified	To be developed and implemented as stormwater quality treatment methods for bacteria emerge.	

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

Sampling of MS4 stormwater outfalls which discharge directly to bacterially impaired segments of Beaver Brook, Cobbs Mill Brook and Kettle Creek will be sampled in 2019.

**5.3 Post-Construction Stormwater Management reporting metrics**

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	48.72 Acres
DCIA disconnected (redevelopment plus retrofits)	2012 to 2017 - To Be Determined 2017 - 0 Acres 2018 - 0 Acres
Retrofits completed	2017 - 0 2018 - 1 Partially Completed. Will be completed in 2019
DCIA % disconnected	2012 to 2017 - 0 2017 - 0 2018 - To Be Determined
Estimated cost of retrofits	2018 - Private Commercial Development
Detention or retention ponds identified	2017 - 0 2018 - 8

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

Based on information contained in the Factsheet: *Town of Weston Water Quality and Stormwater Summary*, prepared by the CT DEEP, 845.42 acres of the town has an impervious area exceeding 12% which is approximately 6.39% of the town. 368.73 acres have an impervious cover of ranging from 12% to 25%, 359.10 acres have an impervious cover ranging from 26% to 50%, 89.39 acres have an impervious cover ranging from 51% to 75% and 28.20 acres have an impervious cover ranging from 76% to 100%.

The impervious surface area consists of 282.52 acres of buildings, 335.83 acres of roads and 590.48 acres of other impervious surfaces for a total impervious surface area of 1,208.83 acres.



The DCIA Mapping was conducted in substantial accordance with the methodologies presented in the October 25, 2017 UConn CLEAR Webinar entitled *CT MS4 Mapping Details, Clarifications and Tools*, the October 19, 2018 UConn CLEAR Workshop entitled *CT MS4 Mapping Workshop* as well as information contained in the EPA reference entitled *Estimating Change in Impervious Area (IA) and Directly Connected Impervious Area (DCIA) for Massachusetts Small MS4 Permit utilizing Sutherland equations*.

The DCIA computations were prepared utilizing Connecticut Environmental Conditions Online MS4 base mapping prepared by UConn CLEAR.

Impaired waters were determined from the report entitled *2016 Integrated Water Quality Report*, dated April 2017, prepared by the State of Connecticut Department of Energy and Environmental protection.

The method to determine the 2012 baseline DCIA was to first compile the CT DEEP drainage basin characteristics in a Microsoft Excel spreadsheet. Information on the Connecticut Environmental Conditions Online MS4 Mapping was used to determine the impervious area breakdown as Buildings, Roads and Other. For CT DEEP drainage basins that fell in two or more municipalities the advanced mapping tab of Connecticut Environmental Conditions Online was used to delineate and determine the applicable town CT DEEP basin area. It was assumed that the entire drainage basin characteristics were directly proportional to the applicable town CT DEEP drainage basin area.

In that ConnDOT has a MS4 Stormwater Program which applies to state owned roads and facilities which the town has no control over, it was decided that the impervious state road area would be determined and deducted from the total impervious road area for each CT DEEP drainage basin as the impervious road areas associated with state highways and facilities constitutes a considerable portion of the total town impervious road area.

The ConnDOT state highway, parking lot and facility impervious road areas were then determined for each CT DEEP drainage basin.

The ConnDOT state highway, parking lot and facility impervious road areas were then deducted from the total town impervious road area to determine a town owned impervious road area for each CT DEEP drainage basin.

Subsequent to the above deduction, the total impervious area in acres and percentage was then recomputed for each CT DEEP drainage basin.

The DCIA formula for each of four development types was then utilized to compute the DCIA. The impervious area in acres was assigned to each of the four Sutherland equations which were modified for the northeastern United State. The Sutherland equation to be utilized was determined using the following methodology:

For impervious percentage less than 6%:

100% of the impervious area was assigned to the slight connectivity Sutherland Equation where  $DCIA\% = 0.01 * (IA\%)^{2.0}$

For an impervious area between 6% and 12 %:

50% of the area was assigned to the partial connectivity Sutherland Equation where  $DCIA\% = 0.04 * (IA\%)^{1.7}$

and

50% of the area was assigned to the average connectivity Sutherland Equation where  $DCIA\% = 0.10 * (IA\%)^{1.5}$

For an impervious area between 12% and 18 %:

50% of the area was assigned to the average connectivity Sutherland Equation where  $DCIA\% = 0.10 * (IA\%)^{1.5}$ .

and

50% was assigned to the high connectivity Sutherland Equation where  $DCIA\% = 0.40 * (IA\%)^{1.2}$ .

For an impervious area of greater than 18 %:

100% of the area was assigned to the high connectivity Sutherland Equation where  $DCIA\% = 0.40 * (IA\%)^{1.2}$ .

The DCIA for each CT DEEP drainage basin was then summed to determine the entire town DCIA.

Subsequent to completion of 2012 Baseline DCIA computations, UConn CLEAR Mapping available on Connecticut Environmental Conditions Online (CT ECO) was revised to separate road impervious area into State Road Impervious Area (Acres) and Town Road Impervious Area (Acres).

The original 2012 Baseline DCIA computations were revised utilizing the UConn CLEAR State Road Impervious Area (Acres) and Town Road Impervious Area (Acres). No major 2012 Baseline DCIA computation discrepancies were noted.

Land use files will be reviewed to determine disconnection of DCIA since July 01, 2012 for utilization in reaching the CT DEEP goal of 2% disconnection of the 2012 baseline DCIA by June 30, 2022.

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

**6.1 BMP Summary**

<b>BMP</b>	<b>Status</b>	<b>Activities in current reporting period</b>	<b>Measurable goal</b>	<b>Department / Person Responsible</b>	<b>Due</b>	<b>Date completed or projected completion date</b>	<b>Additional details</b>
6-1 Develop/implement formal employee training program	Ongoing	DPW facility BMPs were presented to the DPW staff	Continuing	Department of Public Works/ Lou Martirano, Director and Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2017	Continuing	
6-2 Implement MS4 property and operations maintenance	Ongoing	The Department of Public Works continues to utilize BMPs in MS4 property operations and maintenance.	Continuing	Department of Public Works/Lou Martirano, Director	July 01, 2018	Continuing	
6-3 Implement coordination with interconnected MS4s	Not Applicable	Not Applicable	Not Applicable	Not Applicable	July 01, 2017	Not Applicable	
6-4 Develop/implement program to control other sources of pollutants to the MS4	To Be Developed	None	Educate the General Public on bacteria impairment of waterbodies by pet waste and waterfowl waste.	Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2017	Calendar Year 2019	

6-5 Evaluate additional measures for discharges to impaired waters*	To Be Developed	None	Educate the General Public on bacteria impairment of waterbodies by pet waste and waterfowl waste.	Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2017	Calendar Year 2019	
6-6 Track projects that disconnect DCIA	To Be Developed	None	Review projects constructed since July 01, 2012 to determine if there was a reduction in DCIA on any of the projects.	Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2017	Calendar Year 2019	
6-7 Implement infrastructure repair/rehab program	To Be Developed	None	Begin development of the program.	Department of Public Works/Lou Martirano, Director	July 01, 2021	Prior to July 01, 2021	
6-8 Develop/implement plan to identify/prioritize retrofit projects	To Be Developed	None	Retrofit Plan Development	Department of Public Works/Lou Martirano, Director and Town MS4 Consultant/ Nathan L. Jacobson & Associates, Inc.	July 01, 2020	Prior to July 01, 2020	
6-9 Implement retrofit projects to disconnect 2% of DCIA	To Be Developed	None	Review projects constructed since July 01, 2012 to determine if there was a reduction in DCIA on any	Department of Public Works/Lou Martirano, Director, and Town MS4 Consultant/	July 01, 2022	Prior to July 01, 2022	

			of the projects.	Nathan L. Jacobson & Associates, Inc.			
6-10 Develop/implement street sweeping program	Ongoing	The Town of Weston currently implements a road sweeping program whereby all town roads are swept at least one time per year.	Compliance	Department of Public Works/Lou Martirano, Director	July 01, 2017	Continuing	
6-11 Develop/implement catch basin cleaning program	Ongoing	The Town of Weston traditionally implemented a catch basin cleaning program whereby approximately half of the catch basins are cleaned every year. In mid to late 2018 a new Director of Public Works took over. It is anticipated that catch basin cleaning compliance will be largely achieved in 2019.	Compliance	Department of Public Works/Lou Martirano, Director	July 01, 2020	Continuing	
6-12 Develop/implement snow management practices	Ongoing	Continue the existing program and modify as needed.	Ongoing Review	Department of Public Works/Lou Martirano, Director	July 01, 2018	Continuing	

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

Storm Drainage Retrofit prioritization will be given to stormwater outfalls that are known to result in soil erosion and sedimentation. Prioritization will be given to the outfalls within the impaired water drainage basins with particular emphasis placed on stormwater outfalls which are located on fine grained glacial till soils.

### 6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	DPW Employees are encouraged to attend classes at the CT Technology Transfer Center.
Street sweeping	
Lane miles swept	2017 - 157.84 2018 - 157.84
Volume (or mass) of material collected	2017 - 20±C.Y. 2018 - 0 C.Y.
Catch basin cleaning	
Total catch basins in priority areas	TBD
Total catch basins in MS4	1,200 - 1,500
Catch basins inspected	2017 - 600- 750 2018 - 0
Catch basins cleaned	2017 - 600-750 2018 - 0
Volume (or mass) of material removed from all catch basins	2017 - Not known. Catch basin cleaning debris was disposed of out of town by the catch basin cleaning contractor. 2018 - 0 C.Y.
Volume removed from catch basins to impaired waters (if known)	2017 - Not Known. Catch basin cleaning debris was disposed of out of town by the catch basin cleaning contractor. 2018 - 0 C.Y. Catch Basin cleaning was not conducted.
Snow management	
Type(s) of deicing material used	Deicing Mix: NaCl Salt treated with Ice B'Gone at the rate of 6-8 gallons per ton.
Total amount of each deicing material applied	2017 - 1,200± to 1,500± Tons of pretreated NaCl Salt 2018 - 1,200± to 1,500± Tons of pretreated NaCl Salt
Type(s) of deicing equipment used	10 Snow Plows/Spreaders. 6 Snow Plows/Spreaders were purchased new with Ground Speed Controlled Spreaders. The remaining 4 Snow Plows/Spreaders have manually controlled Spreaders. The deicing mix is applied at a rate ranging from 150 pounds per lane (curb) mile depending on the storm type.

Lane-miles treated	157.84
Snow disposal location	Generally along the road shoulders.
Staff training provided on application methods & equipment	DPW Employees are encouraged to attend classes at the CT Technology Transfer Center.
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0 Pounds
Reduction in turf area (since start of permit)	0 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$0

#### 6.4 Catch Basin Cleaning Program

**Briefly describe the method used to optimize your catch basin inspection and cleaning schedule. [Complete this section for the 2017 Annual Report only]**

It is estimated that there are approximately 1,200 to 1,500 catch basins in the Town of Weston.  
 2017 - 600 to 750 catch basins were cleaned.  
 2018 - No catch basin cleaning was conducted.  
 Catch basin mapping and depth of sediment accumulation will be conducted in 2019 to determine which catch basins need to be cleaned annually or more often.

#### 6.5 Retrofit program

**Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project. [Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.]**

Storm Drainage Retrofit prioritization will be given to stormwater outfalls that are known to result in soil erosion and sedimentation. Prioritization will be given to the outfalls within the impaired water drainage basins with particular emphasis placed on stormwater outfalls which are located on fine grained glacial till soils.

**Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years. [Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.]**

Based on the computed Directly Connected Impervious Area (DCIA) of 48.72 acres, a reduction in DCIA of 0.974 acre would be required to achieve the CT DEEP goal of a 2% DCIA reduction by 2022. The private redevelopment retrofit in the village center is incorporating subsurface detention which may result in a rather significant reduction of the CT DEEP DCIA goal.

**Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years. [Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.]**

Given that there is very limited commercial property in town there are limited opportunities for future private DCIA reduction. The future DCIA reduction will need to be achieved by municipal reconstruction projects.



**Part II: Impaired waters investigation and monitoring [This section required beginning with 2018 Annual Report]**

**1. Impaired waters investigation and monitoring program**

**1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution.** This data is available on the MS4 map viewer:

Nitrogen/ Phosphorus       Bacteria       Mercury       Other Pollutant of Concern

**1.2 Describe program status.**

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

2017 - No MS4 stormwater outfalls which discharge directly to impaired waters were sampled.  
2018 - No MS4 stormwater outfalls which discharge directly to impaired waters were sampled.  
It is anticipated that all MS4 stormwater outfalls to impaired waters will be sampled in early 2019. Follow up sampling will be conducted in 2019 based on initial sample results.

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

**2.1 Screening data collected under 2017 permit**

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

<b>Outfall ID</b>	<b>Sample date</b>	<b>Parameter</b> (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	<b>Results</b>	<b>Name of Laboratory (if used)</b>	<b>Follow-up required?</b>

**2.2 Credit for screening data collected under 2004 permit**

If any outfalls to impaired waters were sampled under the 2004 MS4 permit, that data can count towards the monitoring requirements under the modified 2017 MS4 permit. Complete the table below to record sampling data for any outfalls to impaired waters under the 2004 MS4 permit.

<b>Outfall</b>	<b>Sample date</b>	<b>Parameter</b> (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	<b>Results</b> (Colonies/100 ml)	<b>Name of Laboratory (if used)</b>	<b>Follow-up required?</b>

**3. Follow-up investigations** (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

<b>Outfall</b>	<b>Status of drainage area investigation</b>	<b>Control measure implementation to address impairment</b>

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

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2020.

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

**Part III: Additional IDDE Program Data [This section required beginning with 2018 Annual Report]**

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

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

<b>1. Catchment ID (DEEP Basin ID)</b>	<b>2. Category</b>	<b>3. Rank</b>
7200-24-1 15.35% Impervious	High Priority - E. coli	1
7200-22-2-R1 12.74% impervious	High Priority - E. coli	1
7203-04-1 11.55% Impervious	High Priority - E. coli	1



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

#### 3.1 System Vulnerability Factor Summary

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

Outfall ID	Receiving Water	System Vulnerability Factors

Where SVFs are:

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





**Part IV: Certification**

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Chief Elected Official or Principal Executive Officer


Print name: Christopher Spaulding, First Selectman



Signature / Date:  
April 25, 2019

Document Prepared by

Print name: Wade M. Thomas



Signature / Date:  
April 24, 2019