



2017 ANNUAL REPORT

Municipal Separate Storm Sewer System

FARMINGTON, CT

Prepared by

**TOWN OF FARMINGTON
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March 2018

MS4 General Permit
Town of Farmington 2017 Annual Report
 Existing MS4 Permittee
 Permit Number GSM 000090
 [January 1, 2017 – December 31, 2017]

This report documents the Town of Farmington’s efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2017 to December 31, 2017.

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 Progress	Procure or develop stormwater content about bacteria and pet waste management.	Add to existing Library	DPW	Jul 1, 2018	Jul 1, 2018	
	Complete	Informational material posted to Town Website: http://www.farmington-ct.org/home/showdocument?id=6537	Material secured from FRWA. Posted January 2017			January 2017	
1-2 Address education/ outreach for pollutants of concern*	On-going	Publish stormwater content about bacteria and pet waste management in Town Newsletter/Website	Publish Information	DPW	Jul 1, 2018	Jul 1, 2018	
	Complete	Informational material posted to Town Website: http://www.farmington-ct.org/home/showdocument?id=6537	Material secured from FRWA. Posted January 2017			January 2017	

1-3 Green Efforts Commission	Ongoing	Posted and distributed information about the Annual Clean Up Day. Sponsored and distributed information for a Compost Bin and Rain Barrel Sale.	Information posted to website, flyers, Annual Newsletter, and Everbridge Notification System.	DPW & Green Efforts Committee	Yearly	Spring /Summer 2017	
1-4 Farmington River Watershed Association	Ongoing	Provided financial assistance to the FRWA	Continue to provide assistance to the FRWA to assist with education efforts, programs and studies of the watershed.	Town of Farmington	Yearly	July 2017	
1-5 Stormwater Page on Town Website	In Progress	Material has been collected and website template has been developed.	Publish and maintain a stormwater-specific webpage on Town Website	DPW	Jul 1, 2018	April 1, 2018	

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

- Publish material in the Towns Newsletter
- Host Townwide Cleanup Day
- Host a Spring and Fall Bulky Waste Collection
- Launch Stormwater Page on Town Website

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
FRWA / Green Efforts meeting March 2017	Residents/ GE members	Sustainable lawn and garden care	Pesticides and fertilizers	DPW & Green Efforts
Stormwater Quality Flyers distributed at Unionville Festival	Residents	Stormwater Quality	Bacteria, nitrogen and phosphorus	Green Efforts Committee
Hosted an online Compost Bin & Rain Barrel order for residents on the Town Website.	Residents	Stormwater Quality	Nitrogen and phosphorus	DPW Green Efforts Committee
FRWA – River Smart CT program – support the River Smart pledge campaign and distribute supporting educational materials	Residents	Stormwater Quality	All pollutants of concern	DPW

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	Complete	Publish Notice about MS4 Plan	Publish Notice	DPW	Mar 15, 2017	March 15, 2017	Notice of Plan review posted to Town website, submitted through the Everbridge System and copy in Planning and Engineering Division for review.
2-1 Comply with public notice requirements for Annual Reports	In progress	Publish Notice about MS4 Plan and Annual Report	Publish Notice on website and through Everbridge	DPW	Jan 31, 2018	Jan 31, 2018	
2-2 Hosted Clean Up Town Day	Ongoing	Publish notice in Town Newsletter, Website, and Everbridge	Residents help remove trash from parks, playgrounds, roadsides and riverbanks	DPW & Green Efforts Committee	Yearly	April 29, 2017	Heaviest haul competition coordinated by Green Efforts Committee. Prizes are awarded to groups and individuals that remove the most trash. This helps improve participation in the event.
2-3 Hosted Household Hazardous Waste Collection Events	Ongoing	Publish notice in Town Newsletter, Website, and Everbridge	Residents dispose of hazardous waste properly	DPW & Green Efforts Committee & Conservation Commission	Yearly	April 29, 2017 June 17, 2017 October 28, 2017	
2-3 Hosted Shredding Events	Ongoing	Publish notice in Town Newsletter, Website, and Everbridge	Residents dispose of material properly	DPW Green Efforts Committee	Yearly	April 29, 2017 June 17, 2017 October 28, 2017	
2-4 Partner with Local Volunteer Organizations	On-going	Provide financial assistance to the FRWA annually. Support River Smart program.	Financial assistance. Promote & distribute River Smart info.	Town of Farmington	Yearly	Summer 2017	
2-5 Hosted Bulkwaste Pickup	Ongoing	Publish notice in Town Newsletter, Website, and Everbridge	Residents dispose of material properly	DPW	Bi-Annual	April 3 rd – April 7 th Oct 16 th – Oct 20 th (2017)	

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

Host the following Event:

- Household Hazardous Waste Cleanup
- Shredding event
- Townwide Cleanup Day
- Spring and Fall Bulky Waste Collection
- Annual posting of the Stormwater Report for public comment

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Y	March 15, 2017	http://www.farmington-ct.org/departments/engineering/stormwater
Availability of Annual Report announced to public	Y	January 31, 2017	http://www.farmington-ct.org/departments/engineering/stormwater

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	Completed	Town completed IDDE Plan	Implement IDDE program	DPW	Jul 1, 2018	Plan was completed May 31, 2017	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	In Progress	Continue to update Townwide mapping	Update Townwide Mapping as required	DPW	Jul 1, 2019	Jul 1, 2019	Town continues to update database. Town currently prioritizing areas for review and testing
3-3 Implement citizen reporting program	Ongoing	Received and acted on complaints as received	Track citizen complaints	DPW	Jul 1, 2017	Jul 1, 2017	Currently review and act on any complaints as received. Town to include a link on Town Website.
3-4 Establish legal authority to prohibit illicit discharges	On-going	On-going review of Existing Ordinance for compliance with current MS4 requirements	Update and enforce ordinance as required	DPW	Jul 1, 2018	July 1, 2018	
3-5 Develop record keeping system for IDDE tracking	On-going	Spreadsheet to be developed to track IDDE, will include all criteria noted in permit	Spreadsheet created	DPW	Jul 1, 2017	July 2018	Currently no reported illicit discharges
3-6 Address IDDE in areas with pollutants of concern	Not Started	None	Initiate sampling program	DPW	Not specified		Work to commence upon implementation of outfall screening

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

The written program will be posted to the Dept of Public works webpage and a link listed in next year's Annual Report; will update the written IDDE program as needed throughout the permit term.

Maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process

Continue with identifying priority areas and maintaining the detention/retention database

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

Date of Report	Location / suspected source	Response taken
October 27, 2017	77 Mountain Spring Rd. / erosion control breach	Site inspected. Contractor ordered to remove sediment from impacted areas and make necessary modifications and repairs to erosion control measures.
October 25, 2017	788 Farmington Ave. / erosion control breach	Site inspected. Contractor ordered to remove sediment from impacted areas and make necessary modifications and repairs to erosion control measures.

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.

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)
7 Wildcat Drive	March 8, 2016 (2000hrs) March 8, 2016 (2100hrs)	N	<100 gal	Mainline backup	Plug was removed from manhole and mainline cleaned	N/A
20 Scott Swamp Road	March 18, 2015 (1330hrs) March 18, 2015 (1430hrs)	N	<1,000 gal	Mainline backup	Manhole and mainline cleaned	N/A
Depot Place (cul-de-sac)	Sept 9, 2014 (0930hrs) Sept 9, 2014 (1030hrs)	N	<500gal	Mainline backup	Manhole and mainline cleaned	N/A
308 Farmington Ave	April 24, 2014 (2230hrs) April 24, 2014 (2330hrs)	N	<1,500gal	Forcemainline backup	Forcemain repaired	N/A
Walnut Farms Drive 41.736783/72.871006	Sept 10, 2012 (2200hrs) Sept 10, 2012 (2345hrs)	N	<500gal	Manhole backup	Manhole sticks removed	N/A

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

Any illicit complaint is received and logged in spreadsheet, and upon investigation, the DPW Engineering Division is notified as to whether the complaint was valid, the connection removed, or if further action is required.

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
22 Griffinville Road – System Failure	Install new tank and leaching fields	4300-28-1-L1
36 Progress Avenue	Abandon drywell and install new leaching fields	4300-00-4+R15
183 Waterville Road	Repair damaged pipe in existing leaching field trenches	4300-00-5+R3
95 Woodruff Road	Install new tank	4403-01-1
106 Woodruff Road	Install new tank and leaching fields	4403-01-1

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	738
Estimated or actual number of interconnections	Estimated 100
Outfall mapping complete	100%
Interconnection mapping complete	80%
System-wide mapping complete (detailed MS4 infrastructure)	90%
Outfall assessment and priority ranking	0%
Dry weather screening of all High and Low priority outfalls complete	0%
Catchment investigations complete	0%
Estimated percentage of MS4 catchment area investigated	0%

3.8 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).

Stormwater training of Town employees is through on-the-job instruction and training by supervisors, consultants, and through employee's attending University of Connecticut Technology Transfer training programs. The primary focus of the training continues to be the cross training of existing employees within the divisions that make up the Department of Public Works, aimed at ensuring a broader understanding of the roles of each member of the staff assigned specific stormwater management responsibilities, and how those activities are integrated to minimize the Town's impact to the environment and to meet the obligations of the stormwater general permit.

The Town is also currently working with a Consultant to develop a formal training program that can be used to train new employees and a refresher for existing employees.

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	On-Going	Article IV, Section 11 of the Farmington Zoning Regulations requires the submission of an E & S plan for all projects with earth disturbance greater than ½ acre.	The Planning and Zoning application checklist requires the submission of an E&S plan.	DPW	Jul 1, 2019	On-going.	Implement Public Works Design Manual which includes stormwater requirements consistent with new MS4 permit. Manual will be adopted into Zoning/Subdivision regulations by reference.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete	Town Manager Policy and Procedure#0402 outlines the interdepartmental review requirements.	The Interdepartmental review process is implemented with every Land Use Application.	DPW	Jul 1, 2017	Completed. Implemented prior to 2017.	
4-3 Review site plans for stormwater quality concerns	On-going	The review checklist included in Manager Policy and Procedure #0402 includes Stormwater quality elements	Every Land Use Application is reviewed to ensure compliance with the checklist.	DPW	Jul 1, 2017	Completed. Implemented prior to 2017.	
4-4 Conduct site inspections	Complete / on-going (Long Term Maintenance requirements)	The Planning / Engineering Divisions review the installation of all E & S measures during construction; reviews as-built plans to ensure all storm drain elements are installed per plan; and long term maintenance of storm drain elements are the responsibility of the owner.	E&S sign-off required prior to issuance of Building Permit. Review of As-built plan required prior to the issuance of C.O. Long term maintenance plan required as part of all Commercial developments.	DPW	Jul 1, 2017	Completed. Implemented prior to 2017. On-going regarding the implementation of the Long Term Maintenance requirements for Commercial Developments.	

4-5 Implement procedure to allow public comment on site development	Complete	The public hearing process allows for public comment for all proposed Land Use Applications. The public can voice concerns to DPW. Concerns brought to other departments are transferred to DPW for management.	Public Hearing – meetings are recorded and minutes issued. Other Public Concerns – most concerns and resolution are documented in writing	DPW	Jul 1, 2017	Completed. Implemented prior to 2017.	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Complete	Notification provided to applicants disturbing over 5 acres of land.	Notification provided via Engineering Comments. All Land Use approvals are subject to the resolution of Engineering Comments.	DPW	Jul 1, 2017	Completed. Implemented prior to 2017.	
4-7 Regulatory Flexibility for Additional Controls as Needed	On-going	Review of Zoning Regulations	Allowance of innovative water quality techniques	DPW	On-going	On-going	The Engineering Division permits minor modification of erosion control and water quality measures to meet the specific needs of each site.
4-8 Require Maintenance and Operation Plans	On-going	Review of Article IV, Section 11 of the Zoning Regulations	Land Use conditions of approval that require the submission of Long Term Maintenance Reports submitted to the Town.	DPW	On-going	On-going	
4-9 Interjurisdictional Agreements	On-going	Review of mapping to identify interjurisdictional stormwater discharges / connections	Quantify the number of interjurisdictional connections that exist	DPW	On-going	On-going	In 2018 work to prepare draft agreements with adjacent municipalities and other agencies as required

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

1. Require applicants to conduct E & S inspections and to submit E & S monitoring reports from their Engineers for sites that disturb more than 1 acre of land. Reports to be completed monthly and after rainfall events of more than 1-inch.

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 Progress	Commence evaluation of existing regulations to determine what is required.	Review sample LID Regulations and incorporate into existing Public Works Design Manual.	DPW	Jul 1, 2021	Jul 1, 2021	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing	Currently require no increase in runoff from proposed developments and concurrence with the CT Stormwater Manual through our Land Use Application approvals.	Revise Public Works Design Manual accordingly	DPW	Jul 1, 2019	Jul 1, 2019	
5-3(a) Identify retention and detention ponds in priority areas	Ongoing	List of public/private detention/retention ponds and water quality measures has been developed and currently being vetted through various Public Works Divisions for revisions.	Develop and maintain list.	DPW	Jul 1, 2019	Jul 1, 2019	

5-3(b) Implement long-term maintenance plan for stormwater basins and treatment structures	(TOWN) In Progress (PRIVATE) Ongoing	Town currently maintains structures as required. Currently require owners of private stormwater systems to provide long term maintenance plans and annual reports.	Complete list of structures, perform initial inspections, and develop plan Continue review and requirements through Land Use Applications.	DPW	Jul 1, 2019	Jul 1, 2019	
5-4 DCIA mapping	Not Started	None	Review CTDEEP IC Mapping and calculate DCIA using the CTDEEP/EPA Guidance equations	DPW	Jul 1, 2020	Jul 1, 2020	
5-5 Address erosion and sediment problems in areas with pollutants of concern	Ongoing	Review projects before, during, and after construction. Continue inspections and make corrections as required and/or notify owners of deficiencies consistent with 5-3A & 5-3B above.	Continue review and inspections	DPW	Ongoing	Ongoing	Town currently reviews project before, during, and after construction. Projects are not approved unless area is stabilized. Cash Bonds are secured if work not completed and released after work has been completed.
5-6 Reduction in Turfed Areas	Complete	Current regulations comply.	Continue to enforce regulations.	DPW	Ongoing	Ongoing	Town Zoning Regulations currently limit impervious coverage to 40%. Limits of tree clearing are strictly reviewed and limited. Zoning Regulations also allow for smaller lot sizes in an effort to provide greater preservation and protection of open space and other valuable resources.

5-7 Consistency with Stormwater Quality Manual	In Progress	Public Works Manual has been developed to incorporate the CTDEEP Stormwater Manual.	TPZ to incorporate manual into regulations.	DPW	Jul 1, 2018	Jul 1, 2018	
5-8 Coordination with Local Health Department	Ongoing	Continue to actively coordinate with local Health Department (FVHD)	Continue to keep Town and FVHD informed about ongoing activities.	DPW	Ongoing		The Town includes FVHD on all Land Use Applications to coordinate comments. FVHD continually contacts the Town regarding septic systems in need of repair to discuss viability of connecting to the Town Sanitary Sewer System.

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

Require annual stormwater monitoring reports as part of Land Use Applications.

Continue inspections of Town stormwater infrastructure

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	To be evaluated in 2018
DCIA disconnected (redevelopment plus retrofits)	To be evaluated in 2018
Retrofits completed	To be evaluated in 2018
DCIA disconnected	To be evaluated in 2018
Estimated cost of retrofits	To be evaluated in 2018
Detention or retention ponds identified	To be evaluated in 2018

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

CT DEEP from EPA guidance on DCIA

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

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	On-going	Weekly staff meetings with Highway and Grounds employees to review Best Management Practices, safety and general housekeeping items.	Attendance taken at each meeting.	DPW	Jul 1, 2017	July 1, 2017	
6-2 Implement MS4 property and operations maintenance		<p>Highway & Grounds Annual Fuel System Training – every January; use of spill prevention kits is reviewed annually at training, kits are inspected monthly.</p> <p>Hazardous Material program – MSDS sheets are assembled and kept at Highway garage. Sheets are reviewed quarterly at Safety Training.</p>	Attendance taken at each meeting.	DPW	Jul 1, 2018	July 1, 2017	
6-3 Implement coordination with interconnected MS4s	On-going	Review of mapping to identify interjurisdictional stormwater discharges / connections	Quantify the number of interjurisdictional connections that exist and with which agency coordination is required.	DPW	On-going	On-going	
6-4 Develop/implement program to control other sources of pollutants to the MS4	On-Going	Obtained list of General Permit registrants. Reviewing list and comparing to previous monitoring locations and the results.	List of General Permit registrants.	DPW	On-going	On-going	Current IDDE ordinance is under review to ensure compliance with current MS4 permit.

6-5 Evaluate additional measures for discharges to impaired waters*	On-going	<p><u>Batterson Park Pond</u> Nitrogen and Phosphorus pollutant of concern. Identified Town owned properties in watershed.</p> <p><u>Peguabuck River & Roaring Brook</u> Bacteria pollutant of concern. Identified Town owned properties in watersheds</p>	<p>Reviewing use and maintenance practices at Town owned properties. Properties are limited to (2) Schools. Remaining Town-owned properties are Open Space.</p> <p>Town-owned properties are limited to Open Space.</p>	DPW	On-going	On-going	
6-6(a) Track projects that disconnect DCIA	On-going	Review Land Use Applications from July to December 2017 – no redevelopment projects; 8 new development projects – all include infiltration of the Water Quality Volume.	<p>Modify Public Works Design Manual to match permit requirements.</p> <p>Review of projects from the last 5 years.</p>	DPW	Jul 1, 2017	On-going	
6—6(b) Implement retrofit projects to disconnect 2% of DCIA	On-going	Will review historic Public/Private projects and track current projects to ensure DCIA reduction.	Tracking list annotated with reduction percentages where applicable.	DPW	Jul 1, 2022	On-going	
6-7 Implement infrastructure repair/rehab program	On-going	Work with Highway & Grounds to develop protocols identifying stormwater infrastructures in need of repair.	Protocols / procedures documented and distributed to Highway and Grounds crews and DPW employees	DPW	Jul 1, 2021	On-going	
6-8 Develop/implement plan to identify/prioritize retrofit projects	On-going	Catch basins reviewed during cleaning and, outlets reviewed during street paving projects, application reviews, and E & S inspections	Track number of structures repaired each year.	DPW	Jul 1, 2020	On-going	
6-9 Develop/implement street sweeping program	On-going	All municipally owned streets, parking lots and school parking lots are swept annually each spring.	2017 sweeping activities occurred late March / early April.	DPW	Jul 1, 2017	Spring 2017	

6-10 Develop/implement catch basin cleaning program	On-going	In 2017 the catch basins located on roadways that were being reconstructed / repaved were cleaned; 63 basins were cleaned. Inspections of the catch basins occur at the time of cleaning and throughout the year by DPW personnel. The quantity of basins cleaned in 2017 was reduced due to the lack of funding received from the State of Connecticut.	<ol style="list-style-type: none"> 1. Quantity of catch basins cleaned. 2. Volume of material removed. 3. Notification of infrastructure in disrepair where applicable. 	DPW	Jul 1, 2020	Summer 2017	<p>In years 2014, 2015 and 2016 collectively all catch basins were cleaned at least once. Some were cleaned twice during that three year period.</p> <p>Annual spring municipal street and parking lot sweeping greatly reduces the volume of sediment that can enter the drainage system and be trapped in the catch basin sumps.</p> <p>The contractor notes all infrastructure that is in disrepair and any basin that has an unusually large accumulation of sediment.</p>
6-11 Develop/implement snow management practices	On-going	Deicing material is stored in a covered barn / shed. Material used is Clear-Lane by Cargill and plain salt. Employees receive material handling training each year prior to the start of snow season. Deicing material is dispersed with truck mounted sanders using the automated Cirus Controls.	<p>Volume of deicing agent used per season</p> <p>Lane miles treated per season</p>	DPW	Jul 1, 2018	Fall / Winter 2017	
6-12 Develop / implement Parks and Open Space management procedures	On-going	<p>Fertilizers are used sparingly at many municipal/school properties. Pesticides are used only when needed.</p> <p>Grass clippings are recycled into the lawns.</p> <p>Leaf collection at all municipal / school lots are composted at the Town's Leaf compost</p>	<p>Fertilizer and pesticide use rates for 2017 per manufacturer requirements. Commercial Applicator Pesticide Use Summary Reports issued for applications to Town owned land.</p> <p>Leaf compost available to</p>	DPW	Jul 1, 2018	On-going	

		<p>facility.</p> <p>Majority of Town owned land in Farmington is left in natural forested state.</p>	<p>municipal residents at no-cost at leaf compost facility.</p>				
6- 13 Implement / enforce pet waste management practices	On-going	<p>Pet Waste disposal requirement signs are posted at all parks and trails.</p> <p>There are no dog parks in Farmington.</p> <p>There are no known pet waste issues that pose an immediate threat to wetlands or waterbodies.</p>	<p>Improve Pet Waste disposal signage.</p> <p>Improve educational material distributed to residents.</p>	DPW	Jul 1 2017	On-going	
6-14 Develop / implement water fowl management practices	On-going	<p>Canada Geese are known to congregate at Westwoods Golf Course.</p> <p>Noise-making devices are used to disperse geese.</p> <p>There is no known issue of residents feeding the geese.</p>	<p>Continued use of noise-making devices to disperse geese.</p>	DPW	Jul 1, 2017	On-going	
6-15 Review and continue implement plan for vehicle storage, maintenance, fueling, washing, etc.	On-going	<p>Highway and Grounds: All vehicles stored inside. Vehicle maintenance is conducted at the Highway Garage. There is a Vehicle wash bay at the Highway Garage connected to the POTW through an oil/water separator. There is a vehicle fueling station for all municipal vehicles at the Highway Garage.</p> <p>Police Dept. All vehicles are stored outside in a locked enclosure. Vehicle maintenance is conducted at contracted maintenance</p>	<p>Vehicle Maintenance records</p> <p>Review Industrial Permit Stormwater Pollution Prevention Plans, as applicable.</p>	DPW	Jul 1, 2017	On-going	

		<p>facilities. Police vehicle washing is done through a contract with a local vendor at an off-site location. Vehicle fueling takes place at the Highway Garage.</p> <p>Fire Dept. All fire trucks are stored inside at the respective fire departments.</p> <p>Fire truck maintenance is conducted off-site at contracted maintenance facilities.</p> <p>Fire Truck Fueling occurs at the Highway Garage.</p> <p>All other Municipal vehicles are stored outside; and are maintained off-site at contracted maintenance facilities.</p> <p>Fueling is occurs at the Highway Garage.</p>					
6-16 Leaf Management	On-going	Town-wide Leaf Collection program.	Leaf Collection conducted annually through the month of November along all municipal streets.	DPW	Jul 1, 2017	On-going	

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

January – Annual Fuel System Training
Quarterly – Hazardous Material / Safety Mtgs
Household Hazardous Waste Removal Day – three times
Weekly safety meetings

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	(yes) / some weekly, some quarterly and Annual Fuel System Training
Street sweeping	Yes
Curb miles swept	240 miles
Volume (or mass) of material collected – Includes Muni. prkg lots, muni. roads and school lots	450 CY
Catch basin cleaning	yes
Total catch basins in priority areas	3535
Total catch basins in MS4	3787
Catch basins inspected: basins are inspected for disrepair at time of cleaning and throughout year by DPW personnel	Many CB's inspected during routine maintenance
Catch basins cleaned: In 2017 the Town was able to clean the catch basins on the roads that we repaved through our road maintenance project. These roads include – Oakland Gardens neighborhood, White Oak, Upper Mountain Spring, Mountain Lane, Field Stone Run, and Pinnacle Road. The lack of State funding impacted the Town's ability to clean more basins.	63
Volume (or mass) of material removed from all catch basins	20 CY
Volume removed from catch basins to impaired waters (if known)	none
Snow management	
Type(s) of deicing material used Cargill "Clear-Lane" and plain salt	Salt
Total amount of each deicing material applied	1,483.75 Tons
Type(s) of deicing equipment used	Truck mounted spreader with Cirus Controls
Lane-miles treated	120 miles / storm
Snow disposal location	Tunxis Mead gravel parking lot when needed due to accumulation.
Staff training provided on application methods & equipment	Yes. Annually prior to snow season.
Municipal turf management program actions (for permittee properties in basins with N/P impairments) (East Farms and IAR are in the Batterson Park Pond Basin)	
Reduction in application of fertilizers (since start of permit)	0%
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) (No Dog Parks, Batterson Pond Park – owned by City of Hartford, no public sites with failing septic systems.)	
Cost of mitigation actions/retrofits	\$

6.4 Catch basin cleaning program

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

When fully funded the town has embarked on a program that cleans half of all catch basins in year 1 and the other half in year 2. During the catch basin cleaning process the basins are observed and items of disrepair noted for correction. This practice was successfully implemented in 2014, 2015 and 2016. In 2017 the State budget issues and ultimate reduction in funding to the Town of Farmington necessitated a drastic change to this program. The catch basins cleaned aligned with those that were located on the roads that were repaved during the 2017 construction season. 63 basins were cleaned in 2017. Additionally, catch basin inspections are performed throughout the year by DPW personnel.

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. [\[Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.\]](#)

Not completed in 2017.

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

Not completed in 2017.

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

Not completed in 2017.

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: <http://s.uconn.edu/ctms4map>.

Nitrogen/ Phosphorus Bacteria Mercury Other Pollutant of Concern

1.2 Describe program status.

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

2. Screening data for outfalls to impaired water bodies (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.

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

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.

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

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

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment

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)

NOT REQUIRED FOR 2017 REPORT

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).

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank

2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

2.1 Dry weather screening and sampling data from outfalls and interconnections

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

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

NOT REQUIRED FOR 2017 REPORT

2.2 Wet weather sample and inspection data

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

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

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:

- History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
- Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
- Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
- Common or twin-invert manholes serving storm and sanitary sewer alignments.
- Common trench construction serving both storm and sanitary sewer alignments.
- Crossings of storm and sanitary sewer alignments.
- Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
- 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.
- Areas formerly served by combined sewer systems.
- Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.

11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

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

3.3 Wet weather investigation outfall sampling data

Outfall ID	Sample date	Ammonia	Chlorine	Surfactants



3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed

NOT REQUIRED FOR 2017 REPORT

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	Document Prepared by
Print name: Kathleen A. Eagen	Print name: Russell M. Arnold, Jr., P.E.
Signature / Date: 	Signature / Date:  3/28/18

3/29/18



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

MS4 Annual Report Transmittal Form

For the General Permit to Discharge Stormwater
 from Small Municipal Separate Storm Sewer
 Systems (MS4)

Print or type unless otherwise noted. Please submit this
 completed transmittal form, fee, and the MS4 Annual Report as
 indicated at the end of this form.

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

Part I: Annual Report General Information

1. Reporting Period (Calendar Year): <u>2017</u>	
2. Provide the registration number for the existing general permit registration: <u>GSM 000090</u>	
3. Registrant Type (check one):	Fees
<input type="checkbox"/> state institution/agency	\$375.00 [713]
<input type="checkbox"/> federal institution/agency	\$375.00 [713]
<input checked="" type="checkbox"/> municipality	\$187.50 [713]
4. Municipality name or Municipality name where institution is located: <u>Town of Farmington</u>	
The annual report 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 (DEEP) 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): <u>Town of Farmington</u>	
Mailing Address: <u>Department of Public Works, 1 Monteith Drive</u>	
City/Town: <u>Farmington</u>	State: <u>CT</u> Zip Code: <u>06032</u>
Business Phone: <u>(860) 675-2305</u>	ext.: _____
Contact Person: <u>Russell M. Arnold, Jr. P.E.</u>	Phone: <u>(860) 675-2305</u> ext. _____
*E-mail: <u>arnoldr@farmington-ct.org</u>	
*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:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.:

Contact Person:

Phone:

ext.

E-mail:

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

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.:

Contact Person:

Phone:

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.

4. Engineer(s) or other consultant(s) employed or retained to assist in preparing the annual report.

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:

5. 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: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the annual report must sign this part. [If the registrant is the preparer, please mark N/A in the spaces provided for the preparer.]

"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 the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

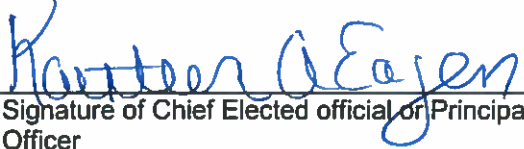
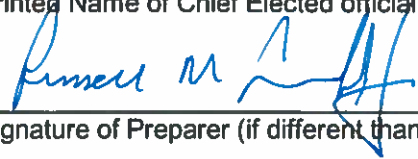
I certify that this annual report transmittal is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

I certify that the following public notice requirements have been met.

Annual Report Availability: At least forty-five (45) days prior to submission of each Annual Report to DEEP, pursuant to Section 4(d)(3) of the MS4 General Permit, each permittee shall make available for public review and comment a draft copy of the complete Annual Report. Comments on the Annual Report may be made to the permittee and are *not* submitted to DEEP. Reasonable efforts to inform the public of this document shall be undertaken by the permittee. Such draft copies shall be made available electronically on the permittee's website for public inspection and copying, consistent with the federal and state Freedom of Information Acts, and shall be made available, at a minimum, at one of the following locations: the permittee's main office or other designated municipal or institution office, a local library or other central publicly available location. Following submission of the Annual Report to DEEP, a copy of the final report shall be made available for public inspection during regular business hours.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

I also certify that the signature of the registrant, or a duly authorized representative, being submitted herewith complies with section 22a-430-3(b)(2)(B) of the Regulations of Connecticut State Agencies.

 _____ Signature of Chief Elected official or Principal Executive Officer	3-16-2018 _____ Date
Kathleen A. Eagen _____ Printed Name of Chief Elected official or Principal Executive Officer	Town Manager _____ Title (if applicable)
 _____ Signature of Preparer (if different than above)	3/14/18 _____ Date
Russell M. Arnold, Jr., P.E. _____ Printed Name of Preparer	Director Public Works/Town Eng _____ Title (if applicable)

- Note:** Please submit
- 1) this completed Transmittal Form and the Fee to:
 CENTRAL PERMIT PROCESSING UNIT
 DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127
 - 2) a copy of this completed Transmittal Form and the Annual Report electronically to the following email address: DEEP.StormwaterStaff@ct.gov.

Refer to www.ct.gov/deep/municipalstormwater for information on Annual Report Templates or other additional information concerning the MS4 General Permit.

In the event that electronic submission is not available or possible, please contact the Stormwater Section at 860-424-3025.



Town of Farmington
ACCOUNTS PAYABLE
 1 Monteith Drive
 Farmington, CT 06032-1053

Webster
 51-7010/2111

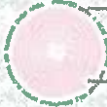
Check Date: 03/21/2018
 Check Number: 00081951
 VOID 60 DAYS FROM DATE OF ISSUE

\$187.50

Pay One Hundred Eighty Seven Dollars and 50 cents *****

To The
 Order Of

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

Kathleen A Eagen MP
 Authorized Signature

John Sweet MP
 Authorized Signature

⑈00081951⑈ ⑆211170101⑆10 0010592946⑈

Town of Farmington, Farmington, CT 06032-1053

Page 1 of 1

Check Number: 00081951

Invoice Date	Invoice Number	Description	GL Account	Invoice Amount
03/21/2018	141711	MS4 ANNUAL FEE/REPORT SUBMISSION	13900-54410-	\$187.50

Vendor No.	Vendor Name	Check No.	Check Date	Check Amount
7707	DEPT OF ENERGY & ENVIRONMENTAL PROTECTION	00081951	03/21/2018	\$187.50

Bruce Cyr

From: Allen, Karen <Karen.Allen@ct.gov> on behalf of DEEP StormwaterStaff <DEEP.StormwaterStaff@ct.gov>
Sent: Wednesday, March 28, 2018 2:55 PM
To: Bruce Cyr
Subject: RE: 2017 MS4 Annual Report Submittal (Town of Farmington)

Thank you for the submittal of Farmington's 2017 MS4 Annual Report. Please contact me if you have any questions.

*Karen Allen
Sanitary Engineer III
Connecticut Department of Energy and Environmental Protection
Water Permitting and Enforcement Division
Stormwater Section
860-424-3842*

From: Bruce Cyr [mailto:cyrb@farmington-ct.org]
Sent: Wednesday, March 28, 2018 2:47 PM
To: DEEP StormwaterStaff <DEEP.StormwaterStaff@ct.gov>
Cc: Shannon Rutherford <rutherfords@farmington-ct.org>; Russ Arnold <ArnoldR@farmington-ct.org>; Matthew Walsh <walshm@farmington-ct.org>
Subject: 2017 MS4 Annual Report Submittal (Town of Farmington)

Please find attached a copy of the following:

1. MS4 Annual Report Transmittal Form along with a copy of the check.
2. The Town of Farmington 2017 Annual Report

Please feel free to contact us should you have any questions.

Thanks,

Bruce Cyr
Zoning Enforcement/Development Specialist
Town of Farmington
Department of Public Works
1 Monteith Drive
Farmington, CT 06032
Phone: (860) 675-2325