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## 2019 ANNUAL REPORT

TOWN OF AVON  
60 WEST MAIN STREET  
AVON, CONNECTICUT

2017 MS4 GENERAL PERMIT  
EXISTING PERMITTEE  
PERMIT NUMBER GSM000044

FEBRUARY 2020

PREPARED FOR:

TOWN OF AVON  
60 WEST MAIN STREET  
AVON, CONNECTICUT 06001

PREPARED BY:

CMG ENVIRONMENTAL, INC.  
CMG ID 2016-046

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## INTRODUCTION

This Annual Report has been prepared for the Town of Avon in compliance with the Connecticut Department of Energy & Environmental Protection (CT DEEP) General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4) (MS4 General Permit), effective July 1, 2017. This report documents the efforts of the Town of Avon to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) for the period of January 1, 2019 to December 31, 2019.

The 2019 Annual Report for the Town of Avon is presented on the following pages. As a note, under Status in each BMP Summary table, “In progress” means the BMP has yet to be completed, and “Ongoing” means the BMP has been completed and upkeep/maintenance of it continues.

## 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 responsible	Due	Completion date	Additional details
1-1 Implement public education and outreach	Ongoing	Stormwater Management Plan and past Annual Reports have been posted on Town website with a links to CT DEEP, US EPA and UConn NEMO websites for more MS4 General Permit information. DPW website has been updated with whom to contact for stormwater concerns/emergencies	SWMP posted to website	Public Works	July 1, 2019	July 1, 2019	Printed information regarding stormwater management is available in Town Manager's office. The Lower Farmington River/Salmon Brook was designated as "Wild and Scenic", and as such, the Town will need to appoint a representative to the Management Committee
1-2 Address education/outreach for pollutants of concern	Ongoing	Same as above	SWMP posted to website	Public Works	July 1, 2019	July 1, 2019	Same as above

#### 1.2 DESCRIBE ANY PUBLIC EDUCATION AND OUTREACH ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.

Town website will be further updated to include the following info:

- Link to current Annual Report
- Info regarding IDDE program will be posted to website. Once posted, a banner on website indicating new info will be added.

**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>
Information available on DPW page of Town website.	General public	MS4 General Permit	NA	Public Works
Literature is available in Town Hall and the public library.	General public	Stormwater pollution prevention and waste minimization	NA	Public Works
Erosion is discussed during Physical Sciences class in schools.	Students in grades K thru 5	How water changes the slope of land	NA	Education

## 2. PUBLIC INVOLVEMENT/PARTICIPATION (Section 6(a)(2) / page 21)

### 2.1 BMP SUMMARY

BMP	Status	Activities in current reporting period	Measurable goal	Department responsible	Due	Completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan	Complete	Stormwater Management Plan has been posted on Town website	SWMP posted to website	Public Works	April 3, 2017	April 3, 2017	None
2-1 Comply with public notice requirements for Annual Reports	Ongoing	Annual Report has been posted on Town website	Annual Report posted to website	Public Works	Feb. 15, 2019	Feb. 15, 2019	After posting, a banner was added to website indicating new info
2-2 Promote community stormwater management efforts	Ongoing	The Secret Lake community conducts annual harvesting of weeds from lake. Trash pickup by Boy Scouts. Invasive plant removal along Fisher Meadows Trail by Farmington River Watershed Association. Brush cutting in Sycamore Hills Park by Valley Community Baptist Church. Avon Old Farms seniors clean up roadways and trails around campus on Senior Community Day in April.	Events conducted throughout year	Planning & Community Development; Recreation and Parks; Avon Old Farms School	Annually	Ongoing	

### 2.2 DESCRIBE ANY PUBLIC INVOLVEMENT/PARTICIPATION ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.

Continuation of community stormwater management efforts listed above.
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### 2.3 PUBLIC INVOLVEMENT/PARTICIPATION REPORTING METRICS

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	4/15/17	Town website
Availability of Annual Report announced to public	Yes	2/15/19	Town website

### 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 responsible	Due	Completion date	Additional details
3-1 Develop written IDDE program	In progress	Town is in process of developing written IDDE program using the CT IDDE program template	Develop written IDDE program	Public Works	July 1, 2018	In progress	Once complete, program will be posted to Town website with a banner indicating new info added.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	In progress	Application for use in field to capture outfall locations developed	Develop list and map	Engineering	July 1, 2019	In progress	Map of Priority Areas has been developed using NEMO MS4 mapping tool
3-3 Implement citizen reporting program	Ongoing	Public Works investigates suspected illicit discharges. Drainage complaints are handled by Engineering. The Fire Marshal and Fire Inspector also conduct illicit discharge inspections. CT DEEP alerts town of releases reported to spill hotline.	Citizen reports logged and investigated	Engineering; Public Works	July 1, 2017	July 1, 2017	
3-4 Establish legal authority to prohibit illicit discharges	Complete	Ordinance enforcement	Illicit discharges investigated and remediated	Planning & Community Development	July 1, 2018	July 1, 2017	
3-5 Develop record keeping system for IDDE tracking	Complete	Systems in place and functioning properly	Illicit discharges investigated, logged, tracked and remediated	Engineering; Public Works	July 1, 2017	July 1, 2017	See 3-3 above
3-6 Address IDDE in areas with pollutants of concern	Ongoing	IDDE complaints investigated, logged and tracked	Illicit discharges investigated, logged, tracked and remediated	Engineering; Public Works	Not specified	Ongoing	
3-7 Household hazardous waste collection	Ongoing	Participation in Household Hazardous Waste Collection Day with partner towns	Household hazardous waste collected and recycled/disposed	Public Works	Annually	Annually	225 households participated

**3.2 DESCRIBE ANY IDDE ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.**

The written program will be posted to the Town website and a link listed in next year's Annual Report. The written IDDE program will be updated as needed throughout the term of the General Permit.

A master IDDE tracking spreadsheet will be maintained, and all employees involved in the IDDE program will be trained regarding 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
None		

**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)
None						

**3.5 BRIEFLY DESCRIBE THE METHOD USED TO TRACK ILLICIT DISCHARGE REPORTS, RESPONSES TO THOSE REPORTS AND WHO WAS RESPONSIBLE FOR TRACKING THIS INFORMATION.**

Reports of illicit discharges are received and investigated by the Departments of Public Works and Engineering.

**3.6 PROVIDE A SUMMARY OF ACTIONS TAKEN TO ADDRESS SEPTIC FAILURES USING THE TABLE BELOW.**

<b>Location and nature of structure with failing septic systems</b>	<b>Actions taken to respond to and address the failures</b>	<b>Potentially impacted waterbody or watershed, if known</b>
Real estate transaction at 24 Woodford Hills	New tank installed	Farmington River
Deteriorated tank at 28 Reverknolls	New tank installed	Farmington River
Slow drainage at 295 Lovely	System replaced	Roaring Brook
Problem at 29 Valley View	New tank installed	Farmington River
Slow drainage at 180 Scoville	System replaced	Chidsey Brook
Substandard tank at 64 Sylvan	New tank installed	Farmington River
Problem at 40 Juniper	New tank installed	Roaring Brook
At capacity at 205 Burnham	System replaced	Farmington River
Problem at 135 Woodhaven	New tank installed	Thompson Brook
Tank in poor condition at 71 Hurdle Fence	New tank installed	Thompson Brook
Problem at 61 School St	New tank installed	Farmington River
Sale inspection at 43 Craigmore Circle	New tank installed	Roaring Brook
Bad tank baffle at 125 Tamara Circle	New system installed	Farmington River
Cracked tank at 551 Deercliff Rd	New tank installed	North Branch Park River
Old tank at 8 Anvil Dr	New tank installed	Farmington River
Leaking tank at 81 Parkview Dr	New tank installed	Nod Brook
Tank with structural cracks at 34 Bolleswood	New tank installed	Nod Brook
Broken tank at 27 Sunnyridge Rd	New tank installed	Roaring Brook
Problem at 29 Bronson Rd	New tank installed	Thompson Brook
Tank in poor condition at 13 Jackson St	New tank installed	Farmington River
Problem at 60 Old Farms Rd	New tank installed	Farmington River
Cracked tank at 14 Wright Dr	New tank installed	Farmington River



### 3.7 IDDE REPORTING METRICS

Metrics	
Estimated or actual number of MS4 outfalls	~430
Estimated or actual number of interconnections	Unknown
Outfall mapping complete	80%
Interconnection mapping complete	0%
System-wide mapping complete (detailed MS4 infrastructure)	60%
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).

Annual training of Department of Public Works employees on the following topics:

- MS4 General Permit
- SWMP and who has responsibility for implementation
- Discussion of IDDE, Post-Construction SW Management and Pollution Prevention / Good Housekeeping MCMs and what Town is required to do under each

#### 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 responsible	Due	Completion date	Additional details
4-1 Implement, upgrade and enforce land use regulations or other legal authority to meet requirements of MS4 General Permit	Ongoing	Inspection of construction sites and verbal warnings regarding E&SC issues	Regulations enforcement	Engineering; Planning & Community Development	July 1, 2019	July 1, 2019	7 large construction sites and numerous single-family lots inspected. 4 NOVs and several verbal warnings given and numerous conversations with contractors for E&SC issues. 14 emails sent regarding concerns about E&SC measures. Numerous inspections conducted following significant rainfall events.
4-2 Develop/implement plan for interdepartmental coordination in site plan review and approval	Ongoing	Engineering, Planning and Wetlands/Zoning Depts. involved in review, permitting and approval of land disturbance projects as necessary	Continued inter-departmental site plan review and approval	Engineering; Planning & Community Development	July 1, 2017	July 1, 2017	
4-3 Review site plans for stormwater quality concerns	Ongoing	Town conducts plan reviews and inspections of projects disturbing 1 or more acres	Continued review of site plans for stormwater quality concerns	Engineering; Planning & Community Development	July 1, 2017	July 1, 2017	Site inspections are to assess adequacy of installation, maintenance, operation and repair of construction and post-construction control measures
4-4 Conduct site inspections	Ongoing	Inspection of construction sites and issuance of notices of violation or stop work orders	Inspections conducted	Engineering; Planning & Community Development	July 1, 2017	July 1, 2017	In addition to 4-1 above, 91 permits for work in right-of-way or sewer construction issued. Projects $\geq 5$ acres are required to submit weekly reports of E&SC progress.

BMP	Status	Activities in current reporting period	Measurable goal	Department responsible	Due	Completion date	Additional details
4-5 Implement procedure to allow public comment on site development	Ongoing	Hearings and/or public hearings with local land use commissions	Public comment solicited and received	Planning & Community Development	July 1, 2017	July 1, 2017	Planning & Community Development responded to at 10-12 calls from public regarding site developments; Engineering responded to several calls
4-6 Implement procedure to notify developers about DEEP Construction Stormwater General Permit	Ongoing	Wetlands Dept. notifies developers and contractors of regulation if projects disturbing 1 or more acres	Continued notification of developers of regulation	Planning & Community Development	July 1, 2017	July 1, 2017	

**4.2 DESCRIBE ANY CONSTRUCTION SITE RUNOFF CONTROL ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.**

None other than continuation of those listed above.

## 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 responsible	Due	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	Minor changes to Zoning Regulations to allow for coverage increase if offset by sustainable and resilience measures to include LID/pervious treatments/other exemplary stormwater management	Continued implementation and upgrade of regulations	Planning & Community Development	July 1, 2021	In progress	Plan of Conservation and Development (POCD) currently incorporates LID
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects.	Ongoing	Inspection of construction sites and issuance of notices of violation or stop work orders	Continued enforcement of regulations	Engineering; Planning & Community Development	July 1, 2019	July 1, 2019	See 4-1 and 4-4
5-3 Identify retention and detention ponds in priority areas.	Ongoing		Develop list of retention and detention ponds.	Engineering; Public Works	July 1, 2019	July 1, 2019	Town will continue to add as newly constructed or identified
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures.	Ongoing		Develop and implement long-term maintenance plan.	Public Works	July 1, 2019	July 1, 2019	
5-5 DCIA mapping.	In progress	Town is in process of completing IDDE program including DCIA calculations.	Perform calculations and complete mapping.	Engineering	July 1, 2020	In progress	Map developed using NEMO MS4 mapping tool
5-6 Address post-construction issues in areas with pollutants of concern.	Ongoing		Post-construction issues will be identified and addressed.	Engineering; Planning & Community Development; Public Works	Not specified	Ongoing	

**5.2 DESCRIBE ANY POST-CONSTRUCTION STORMWATER MANAGEMENT ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.**

None other than continuation of those listed above.

**5.3 POST-CONSTRUCTION STORMWATER MANAGEMENT REPORTING METRICS**

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	Unknown # acres
DCIA disconnected (redevelopment plus retrofits)	0 acres this year / unknown # acres total
Retrofits completed	0
DCIA disconnected	0% this year / % total since 2012
Estimated cost of retrofits	\$0
Detention or retention ponds identified	# this year /# total

**5.4 BRIEFLY DESCRIBE THE METHOD TO BE USED TO DETERMINE BASELINE DCIA.**

Consultation of MS4 map on UConn NEMO website.

## 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 responsible	Due	Completion date	Additional details
6-1 Develop/implement formal employee training program.	In progress	Training program has been established and will be implemented	Training performed	Public Works	July 1, 2017	In progress	
6-2 Implement MS4 property and operations maintenance.	Ongoing	Town optimizes fertilizer application, properly manages grass clippings and leaves, manages pet waste and waterfowl, and buildings, vehicles and equipment are properly maintained	Continued program implementation	Public Works	July 1, 2018	July 1, 2018	
6-3 Implement coordination with interconnected MS4s.	In progress		Town will coordinate with interconnected MS4s as necessary	Public Works	Not specified	In progress	
6-4 Develop/implement program to control other sources of pollutants to the MS4.	In progress		Program will be developed and implemented as necessary	Public Works	Not specified	In progress	
6-5 Evaluate additional measures for discharges to impaired waters.	In progress		Discharges will be evaluated as necessary	Public Works	Not specified	In progress	
6-6 Track projects that disconnect DCIA.	In progress		Projects will be tracked	Public Works	July 1, 2017	In progress	
6-7 Implement infrastructure repair/rehab program.	Ongoing		Program will continue to be implemented	Public Works	July 1, 2021	July 1, 2017	5 drainage swales inspected, cleaned and maintained
6-8 Develop/implement plan to identify/prioritize retrofit projects.	In progress		Projects will be identified and prioritized	Public Works	July 1, 2020	In progress	

BMP	Status	Activities in current reporting period	Measurable goal	Department responsible	Due	Completion date	Additional details
6-9 Implement retrofit projects to disconnect 2% of DCIA.	In progress		Projects will be implemented	Public Works	July 1, 2022	In progress	
6-10 Develop/implement street sweeping program.	Ongoing	Streets and parking lots in Priority Areas are inspected and swept annually in spring	Program will continue to be implemented	Public Works	July 1, 2017	July 1, 2017	
6-11 Develop/implement catch basin cleaning program.	Ongoing	Catch basins routinely inspected and cleaned as necessary	Program will continue to be implemented	Public Works	July 1, 2020	July 1, 2017	
6-12 Develop/implement snow management practices.	Ongoing	Snow and de-icing agents are properly managed	Program will continue to be implemented	Public Works	July 1, 2018	July 1, 2018	

**6.2 DESCRIBE ANY POLLUTION PREVENTION/GOOD HOUSEKEEPING ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.**

None other than continuation of those listed above.

### 6.3 POLLUTION PREVENTION/ GOOD HOUSEKEEPING REPORTING METRICS

Metrics	
Employee training provided for key staff	2019
Street sweeping	
Curb miles swept	220 miles
Volume (or mass) of material collected	60 cy
Catch basin cleaning	
Total catch basins in priority areas	Unknown
Total catch basins in MS4	~4,800
Catch basins inspected	~2,600
Catch basins cleaned	~2,600
Volume (or mass) of material removed from all catch basins	75 cy
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	Treated salt
Total amount of each deicing material applied	Unknown
Type(s) of deicing equipment used	Truck spreaders
Lane-miles treated	220 miles
Snow disposal location	Right of way
Staff training provided on application methods & equipment	Oct. 2019
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	Unknown
Reduction in turf area (since start of permit)	Unknown
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	Unknown

### 6.4 CATCH BASIN CLEANING PROGRAM

<b>Briefly describe the method used to optimize your catch basin inspection and cleaning schedule. [Complete this section for the 2018 Annual Report only]</b>
Visual inspection as part of road maintenance program. Approximately half of all catch basins are cleaned annually, with other half cleaned the following year.



#### 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.]**

Information not available.

**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.]**

Information not available.

**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.]**

Information not available.

## 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.**

IDDE Program under development.

### 2. SCREENING DATA FOR OUTFALLS TO IMPAIRED WATERBODIES (Section 6(i)(1) / page 41)

#### 2.1 SCREENING DATA COLLECTED UNDER 2017 GENERAL 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?
None					

#### 2.2 CREDIT FOR SCREENING DATA COLLECTED UNDER 2004 GENERAL PERMIT

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

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

### 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)

## 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

#### 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	Surfactants	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.
- 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).
- 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

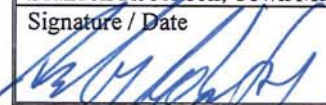

**3.3 WET WEATHER INVESTIGATION OUTFALL SAMPLING DATA**

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

## PART IV: CERTIFICATION

<p>"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."</p>	
Chief Elected Official or Principal Executive Officer:	Document Prepared by:
Print name	Print name
Brandon Robertson, Town Manager	Matthew Reiser, CMG Environmental, Inc.
Signature / Date	Signature / Date
 4/17/20	 4/2/20