

2021 ANNUAL REPORT

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

Registration No. GSM000082

for

*Town of Southington, CT
75 Main Street
Southington, Connecticut*



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MS4 General Permit
Town of Southington 2021 Annual Report
Existing MS4 Permittee
Permit Number GSM000082
January 1, 2021 – December 31, 2021

Primary MS4 Contact: Jim Grappone, Assistant Town Engineer, 860-276-6231, grapponej@southington.org

This report documents Town of Southington's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2021 to December 31, 2021 (reporting period).

Part I: Summary of Minimum Control Measure Activities

1. PUBLIC EDUCATION AND OUTREACH (Section 6 (a)(1) / page 19)

1.1 BMP Summary

| BMP | Activities in current reporting period | Sources Used (if applicable) | Method of Distribution | Audience (and # of people reached) | Measurable goal | Department / Person Responsible | Additional details |
|---|--|--|--|---|-------------------------------|--|---|
| 1-1 Implement public education and outreach | The Town's Stormwater Info webpage contains pertinent information concerning stormwater/urban runoff and its effects on the environment. | CT DEEP, QRWA, Quinnipiac River Fund, UConn CLEAR, EPA, Save the Sound | Town Website: www.southington.org/departments/engineering_department/stormwater_info.php | General Public | Number of volunteers/projects | Engineering/James Grappone | The Town will continue to develop and update the Stormwater Info website. |

| BMP | Activities in current reporting period | Sources Used (if applicable) | Method of Distribution | Audience (and # of people reached) | Measurable goal | Department / Person Responsible | Additional details |
|---|--|------------------------------|--|---|---|---|--|
| 1-1 Implement public education and outreach (Continued) | Quinnipiac River Clean-up occurred on May 22, 2021. | Not Applicable | Not Applicable | 8 participants | Number of volunteers | QRWA with support from Southington Land Trust | The Town will continue to partner with environmental advocacy organizations, such as the Quinnipiac River Association (QRWA), Save the Sound, Southington Land Trust and Open Space Committee. |
| | Battery recycling containers have been placed at Town Hall and the library. | Not Applicable | Not Applicable | Hundreds to thousands of batteries collected and recycled | Number of batteries collected | Engineering/ James Grappone | The Town will continue to collect batteries for recycling. |
| | Christmas trees were recycled. | Not Applicable | Not Applicable | 125 Christmas trees collected and recycled | Number of Christmas trees collected | Engineering/ James Grappone | The Town will continue to Christmas trees for recycling. |
| 1-2 Address education/ outreach for pollutants of concern | Town Clerk handing out brochure on picking up pet waste "Here's The Scoop, Pick Up After Your Pet" to residents. | Clean Water Campaign | Brochures were sent out with annual registration notices in July 2018. | 1000 brochures distributed | Raise awareness for pollutants of concern | Engineering/ Town Clerk | |
| | Homeowner's Guide to Maintaining Septic Systems ("Do Your Part – Be Septic Smart!") was distributed. | US EPA | Brochures were distributed through the Health Department in July 2018. | Unknown | | Health Department | |
| | Town website contains links for "Lawn Care and Fertilizer Guidelines" and "cleaning up after your pet". | UConn, US EPA | Town Website: www.southington.org/departments/engineering_department/stormwater_info.php | General Public | | Engineering/ James Grappone | |

| BMP | Activities in current reporting period | Sources Used (if applicable) | Method of Distribution | Audience (and # of people reached) | Measurable goal | Department / Person Responsible | Additional details |
|--|--|------------------------------|--|------------------------------------|--|--|---|
| 1-3 Integrate water quality into school curriculum | Planning a water unit for Grade 6. Focus on runoff, the difference between point and non-point pollution and the actions that homeowners can take to minimize impacts from runoff. | TBD | No progress was made on this BMP in 2021 due to the COVID-19 pandemic. | Not Applicable | Educate students on common stormwater topics, pollution prevention, and water quality topics | Engineering/ James Grappone/ Southington Public Middle School Science Teachers | Water quality education is incorporated in high school during the school year under the Environmental Science Program |

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

- The Town will continue to provide the public with information on the impacts to stormwater discharges.
- The Town will continue to update the Stormwater webpage.
- The Town will continue to coordinate with school officials to determine feasibility of program with Quinnipiac River Watershed Association involving environmental educational tours and activities for the high school and elementary school, which was delayed due to COVID-19 policies.

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 | Date completed or projected completion date | Location Posted | Additional details |
|--|-----------|---|--|---------------------------------|--|---|--------------------|
| 2-1 Final Stormwater Management Plan publicly available | Completed | Completed registration and General Permit for SMP | Post final plan on website | Public Works/Director | May 17, 2017 | https://www.southington.org/departments/engineering_department/stormwater_info.php | |
| 2-2 Comply with public notice requirements for Annual Reports (annually by 2/15) | On-going | Published public notice and made Draft 2021 Annual MS4 Report available for public comment. | Publish public notice and make draft annual reports available for public comment | Public Works/Director | Public notice for the 2019 & 2020 Annual Reports was provided 8/19/2021 & 10/4/2021 and, 2/15/2022 for the 2021 report. Draft 2019 & 2020 Annual Reports were available on 10/4/2021 and, 2/16/2022 for the 2021 report. | https://www.southington.org/departments/engineering_department/stormwater_info.php | |

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

- Continue to comply with the public notice and review requirements for Annual Reports.
- Continue to reach out to local organizations, such as QRWA, Southington Serves, Southington Community Services, Activate Southington, Scout Troops that may want to participate in the review and implementation of the SMP.

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 | Date completed/ projected | Additional details |
|--|-------------|--|--|---|--|---|
| 3-1 Develop written IDDE program (Due 7/1/19) | In progress | Town is in process of completing a written IDDE program using the CT IDDE program template. | Develop written plan of IDDE program | Public Works, Planning & Zoning Commission, Conservation Commission/Directors | December 2022 | The plan will be added as an appendix to the Planning & Zoning Regulations |
| 3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20) | Complete | Th list for all municipal outfalls has been generated. The Town will continue to update the mapping, as necessary. The list of outfalls to be investigated for all impaired waterbodies has been mapped and field verified. | Inspect all outfalls | Public Works/Director | Substantially Complete Jul 1, 2019 On-going | During the summer of 2018 with the assistance of two interns, the Town did initial screening & evaluation of dry weather flow at 1100 outlet locations. The Town will continue to update its mapping as new information is gathered. |
| 3-3 Implement citizen reporting program (Ongoing) | Complete | The Town of Southington's Engineering website encourages citizens to report illicit discharges through a "Report Stormwater and Erosion Complaint" function. | Promote citizen reporting of illicit discharges into the Town's storm drainage systems | Public Works James. A Grappone, P.E. | April 2018 | Complaints are emailed to Public Works/Engineering |
| 3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19) | In progress | The Town has a draft illicit Discharge Ordinance which will be adopted by all major Boards and Commissions | Ordinance adopted and included in Code and Aquifer Protection/Zoning regulations | Town Council, Planning & Zoning Commission, Conservation Commission/Directors | December 2022 | Public hearing and/or informational meeting will need to take place before the respective Boards and Commissions adopt the ordinance. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Date completed/ projected | Additional details |
|--|-------------|--|--|---------------------------------|------------------------------|---|
| 3-5 Develop record keeping system for IDDE tracking (Due 7/1/17) | Completed | The Town hired Barton & Loguidice to take initial screenings at 34 outfalls to impaired water bodies. 16 of these outfalls were noted discharging. | Create and maintain a reliable system for recording stormwater issues and tracking illicit discharges. | Public works/Director | July 1, 2019 On-going | Investigation data will be collected on a tablet and uploaded onto the Town's GIS layer |
| 3-6 Address IDDE in areas with pollutants of concern | Not started | | | | | |

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

- Finalize written IDDE Program
- Post IDDE Program to the Stormwater Management Program webpage and include link in next year's Annual Report
- Continue updating the MS4 outfall and system mapping, as needed
- Continue working towards finalizing legal authority to prohibit illicit discharges
- Continue to maintain master IDDE tracking system
- Investigate illicit discharges in areas with pollutants of concern

3.3 Provide a record of all citizen reports of suspected illicit discharges and other illicit discharges occurring during the reporting period and SSOs occurring July 2017 through end of reporting period using the following table. Illicit discharges are any unpermitted discharge to waters of the state that do not consist entirely of stormwater or uncontaminated groundwater except those discharges identified in Section 3(a)(2) of the MS4 general permit when such non-stormwater discharges are not significant contributors of pollution to a discharge from an identified MS4.

| Location | 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 | Sampling data (if applicable) |
|------------------|---------------------------------|-----------------------------------|-----------------------------|--|--|-------------------------------|
| 72 Homesdale Ave | 1/7/20 | No | 1-50 gal | Homeowner reported sewage in their basement. | TOS responded to the call, used vac truck to release the blockage. I'm going to submit the bypass report. WPC stall gave owner a list of companies to call for cleanup. Looking to have Granite evaluate this street for lining. | N/A |

| Location | 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 | Sampling data (if applicable) |
|-------------------|---------------------------------|-----------------------------------|-----------------------------|--|---|-------------------------------|
| Maple Street | 1/23/20 | No | N/A | TOS have contractor working on Maple Street between Mark Drive and Route 10 replacing 140' of sewer main that collapsed. The affected neighbors have been notified and as of now there have been no backups. The WPCA has been notified and the on-call operators are on deck with the vac truck if needed. Pipe collapsed because one of the buildings that was connected to the main that was being lined had an injector pump, therefore causing the lining to push back and cause the main to collapse. | Service has been restored. Approximately 150' of sewer main was replaced. TOS determined the cause of the liner collapse and have taken steps to prevent a reoccurrence. | N/A |
| 48 Berkley Ave | 1/29/20 | No | 1-50 gal | Homeowner at 48 Berkley Avenue reported she has a sewer backup into her cleanout in the basement. The resident mentioned that there was about an inch of water in their basement. It looks like grease was the cause of the blockage. | TOS responded and found this issue ended up being a blockage in our main. Staff cleared the blockage and left a yellow card for homeowner listing cleanup companies. | N/A |
| 284 Summer St | 3/16/20 | No | 1-50 gal | Homeowner called the plant to report a sewer backup after they ran two loads of laundry. | Granite lined that main around Feb 10th and after review of the videos, it was determined that the lateral was not cut out. Brian Marek dug up the line and reconnected the lateral. | N/A |
| Hillcrest Orchard | 4/13/20 | Yes | Unknown | Received email stating issued at Hillcrest subdivision. There is little to almost no erosion and sediment control. Many lots are under construction with no protection to neighbors or our catch basins and drainage systems. An entire wood area is flooded with muddy waters from the development. On the downhill side there's also a retention pond with silty outflow coming from the engineered retention pond which is going downhill into neighbors properties and directly into our catch base of system on Blatchley Road. | TOS is aware of these issues and Engineering dept had coordinated with Planning dept to inspect potential trouble spots. Last week silt fences were up in critical areas adjacent to wetlands. Since curbing was installed over the past few months, runoff had been kept to a minimum. With the 1.5" + rainfall in a short period of time it appears certain areas have become inundated. The detention ponds are doing their job, as the best they can do is "minimize" the discoloration of sediment laden waters, as required by the State of CT. TOS will follow up with the developers to ensure the trouble spots are addressed. | N/A |

| Location | 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 | Sampling data (if applicable) |
|-----------------|---------------------------------|-----------------------------------|-----------------------------|--|--|-------------------------------|
| 90 Sunset Ridge | 4/14/2020 | No | 1-50 gal | WPC was contacted with report of a sewer backup in the home. TOS went to the location and noticed that the main was surcharged. Staff reported that the backup was caused by the storm. | A combination of the rain, debris (bricks) in the downstream invert . There is a slight offset due to the pipe transitioning from PVC to AC. We need to decide if this section should be replaced by Marek. also noticed heavy debris in MH 450-1. There's another video with heavy infiltration right after the drop. Seems to be a lot of issues with this line. We will have Beetle video the entire shed after we video the road projects. | N/A |
| 136 Curtiss St | 4/21/2020 | Yes | Unknown | Ongoing problem of an illegal car wash in the building located at 136 Curtiss Street. Sediment, waste and a chemical trail is clearly visible walking toward the canal. Everything is flowing untreated into the sewers. The washing includes both cars and semi-trucks on a consistent basis. | TOS forwarded this complaint to the supervisor of our Field Inspection Group at DEEP. TOS have had ongoing enforcement matters relating to zoning at this site for some time. | N/A |
| 24 Minthal Dr | 5/27/2020 | No | N/A | Susan called to report a sewer issue she is having. She did contact a plumber to come out and take a look. Upon the plumber's inspection he popped the manhole in the main and he said it looked to be flowing slowly. | TOS responded Staff checked the line and reported that there was "dried asphalt creating a dam" in the line. They removed the material and the line is flowing fine now. | N/A |
| 87 Harvest Lane | 6/15/2020 | Yes | Unknown | A neighbor called concerned that the folks at 87 Harvest Lane are possibly pumping chlorinated pool water into the storm drain in the street. He said there is a blue hose running from their back yard, discharging water that is causing white stains by the storm drain. | TOS sent inspector to the property to address. | N/A |
| 61 Pinecrest Dr | 7/31/2020 | No | N/A | Louise has had issues in the past with the line that runs through her back yard getting clogged and she can hear a weird sound when it starts to happen. She called this morning to let us know that she can hear that sound again. | TOS responded and reported the line was surcharged and they cleared the blockage. | N/A |
| 105 Woodland Dr | 11/19/2020 | No | 1-50 gal | Received a call from the homeowners at 105 Woodland Drive, they have sewage coming out of the shower in the basement of their home. | TOS responded to the call and reported that this was an issue with our sewer main. They jetted the line and gave the resident the list of companies for cleanup. | N/A |

| Location | 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 | Sampling data (if applicable) |
|-------------------|---------------------------------|-----------------------------------|-----------------------------|---|--|-------------------------------|
| 11 Chestnut St | 12/4/2020 | No | N/A | Rob called regarding a sewer issue he is having at his property. He said that with all this rain he noticed that the sinks are backing up and that the clean-out cap had water dripping from it. He tried to open the clean-out so he could snake the line but he said there was so much pressure he thought he better not. | TOS responded and reported this ended up being an issue with our main. Homeowner mentioned that there wasn't any damage to his property. I told him to check his drains again and we will return if there is still an issue. There seemed to be quite a bit of sand/dirt in the line that caused the restriction. Staff also mentioned they noticed a lot of wipes in the line also. | N/A |
| 46 Berkley Ave | 12/23/2020 | No | 1-50 gal | A sewer backup was reported at 46 Berkeley Drive. TOS Staff jetted the main and reported that roots were the cause of the blockage. Staff gave the resident the list of companies for cleanup. I believe damages were minimal. Staff jetted this segment a few weeks earlier on 11/10/2020. We are going to install a manhole monitor on the street to give us an early indication of possible issues | Staff jetted this segment a few weeks earlier on 11/10/2020. We are going to install a manhole monitor on the street to give us an early indication of possible issues. | N/A |
| 746 Main St | 1/5/2021 | MS4 | 1-50 gallons | SPD Dispatch called to report water bubbling up out of the sewer manhole at 746 Main St (right in front of Dunkin Donuts). TOS responded to the call, found grease in the line that caused the blockage. Staff also mentioned they noticed mechanic rags and "flushable" wipes. | TOS considering putting a manhole monitor in this location, but it will be difficult to fit because the line is so shallow it's difficult to find space to allow the floats to hang. | N/A |
| 781 South Main St | 1/12/2021 | MS4 | 1-50 gallons | SPD received a phone call from Wells Fargo saying they had water backing up into their building. TOS suspect the backup we had last week in this location may have flowed downstream and caused this one. | TOS responded to the call, staff reported the main was surcharged. They went out with the Vac truck to jet the line. | N/A |
| 28 Beecher St | 2/4/2021 | MS4 | 1-50 gallons | SPD were notified of a sewer blockage at 28 Beecher Street. TOS responded and mentioned excessive amount of grease in the line. | TOS responded to the call, staff relieved the blockage. TOS to schedule this line for video. | N/A |

| Location | 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 | Sampling data (if applicable) |
|-----------------------------|---------------------------------|-----------------------------------|-------------------------------|--|---|-------------------------------|
| 186 Summit St | 5/14/2021 | N/A | N/A | Received a call from Medina Sewer & Drain, there was a backup at this location. Benny mentioned that the sewer there was recently lined. He thinks that maybe the cutout isn't big enough and asked if a crew could come out ASAP. | TOS and Granit responded, Granite went to punch out the hole to the lateral. 911 Restoration was contacted for cleanup. No damage to personal property. Cleanup complete by the end of the day. They left some fans and dehumidifiers running in there for the weekend. | N/A |
| 1816 Meriden Waterbury Tpke | 6/24/2021 | MS4 | Unkown - private pump station | Received a call from Home Depot at 1816 Meriden Waterbury Tpke, they said there is water coming out of a sewer manhole in the parking lot. TOS responded to the call and determined, their pump station in the parking lot had tripped off line and causing the back up. A couple of gallons came out of the manhole. | TOS advised Home Depot the other issue is their manholes are filled with grease and debris and they need to be cleaned out. The TOS main line is clear. | N/A |
| 100 Bristol St | 7/8/2021 | N/A | N/A | The owner came in to say he had his lateral flushed twice and he is saying the problem maybe in the main line. TOS investigated this and determined the chimney in the main sewer line failed. | TOS made the repair to chimney in the main sewer line. | N/A |
| 126 Pondview Dr | 8/24/2021 | MS4 | 1-50 gallons | A resident noticed water coming out of a manhole in their yard and called the Southington Police Department. The SPD called the emergency on-call Southington Water Pollution Control Operator and the operator found the sewer main was blocked. | TOS WPC operator relieved the blockage in the main. | N/A |
| 999 Meriden Waterbury Tpke | 9/2/2021 | Surface Water | 1,001-5,000 gallons | The WPC Facility received an unusual amount of rain water. All of the water went through preliminary, primary, secondary, biological, and nitrification processes. Some of the water was then bypassed to an emergency storage tank. Eventually the emergency storage tank reached max capacity and water was released to the Quinnipiac River. This released water did not receive treatment for denitrification, phosphorus removal, or disinfection 1,001 - 5,000 gallons | Caused by major rain storm event. | N/A |

| Location | 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 | Sampling data (if applicable) |
|------------------|---------------------------------|-----------------------------------|-------------------------------|---|--|-------------------------------|
| 774 West Street | 9/8/2021 | N/A | N/A | Tim from the Residence Inn called, reporting they have water overflowing in the lower level toilets. TOS responded and Staff jetted the line in their parking lot to relieve the blockage. | TOS Investigated that this issue is in the lateral just before the wye, however TOS will install a manhole monitor there to prevent this from happening again. | N/A |
| 774 West Street | 9/10/2021 | N/A | N/A | We received a call from the Residence Inn again. Staff went back out there and it was blocked again. | TOS Staff jetted the main line again and will install a manhole monitor at this location even though the issue is in the private lateral just before the wye. | N/A |
| 235 Queen Street | 10/7/2021 | MS4 | Unkown - private pump station | We were notified by a Namco Pools employee that sewage is spewing out of a manhole in the back parking lot of the business. | TOS is in contact with the property manager and they are getting someone to jet the lines in the complex. TOS went out to the plaza to check the grease trap in the restaurant a few units down from Namco. | N/A |
| 714 West St | 11/17/2021 | N/A | N/A | While the TOS Contractor was videoing the main line at this location, he called us to let us know that smh 277-30B is submerged and he feels that there may be a blockage in the line between the hotel Residence Inn and Cadillac Ranch. | TOS responded and had the main line jetted. TOS met with the owner of the shopping mall (Nader 860-930-4148) Based on TOS video there are roots entering the Town's main from the mall's private lateral at the wye connection. Nader will be hiring a plumber to fix the problem. | N/A |

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

| Method used to track illicit discharge reports | Location and nature of structure with failing septic systems | Actions taken to respond to and address the failures | Impacted waterbody or watershed, if known | Dept. / Person responsible |
|--|--|--|---|---|
| Health District File System | 590 Marion Ave | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 19 Westover Lane | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 70 Mountain Pond Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 35 Potomac Lane | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 337 Flanders St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 426 Laning St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 159 Sunny Slope | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 26 Holly Hill Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 62 Hart St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 23 Manor Rd. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 123 Moore Hill Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |

| Method used to track illicit discharge reports | Location and nature of structure with failing septic systems | Actions taken to respond to and address the failures | Impacted waterbody or watershed, if known | Dept. / Person responsible |
|--|--|--|---|---|
| Health District File System | 26 Holly Hill Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 973 Marion Ave | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 55 Noshahogan Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 473 Winding Ridge | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 139 Autumn Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 16 Horne Cir. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 1063 Mt. Vernon Rd. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 902 Marion Ave | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 63 Budding Ridge | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 1040 Shuttle Meadow Rd. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 1564 Flanders Rd. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 362 Hart St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 3 Williams St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 358 Jude Lane | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 52 Horne Cir | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 33 Brandywine Pl. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 176 Diana Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 361 Pratt St | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 86 Sandra Lane | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 555 Prospect St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 125 Hitchcock Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 36 Westover Lane | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 201 East St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 91 Tallwood Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 40 Diana Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 141 Budding Ridge | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 12 Sheldon Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 139 Lee Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 719 Mt. Vernon | Repaired | Unknown | Plainville-Southington Regional Health District |

| Method used to track illicit discharge reports | Location and nature of structure with failing septic systems | Actions taken to respond to and address the failures | Impacted waterbody or watershed, if known | Dept. / Person responsible |
|--|--|--|---|---|
| Health District File System | 83 Bruce Ave. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 22 Wildwood Acres | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 145 High Ridge Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 212 Welch Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 4 Jude Rd. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 125 Mandel Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 40 Lombardo Ct | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 637 Flanders St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 300 Welch Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 1512 Mt. Vernon Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 260 Laning St | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 26 Fral Ct. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 38 Marion Ave | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 53 South Borough | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 32 North Ridge Ct | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 32 Hidden Hills Dr | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 131 Saddlebrook Path | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 143 Pattonwood Dr. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 112 Mine Hollow Rd | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 380 Mulbery St. | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 48 Rahlene Dr | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 75 Dunham Place | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 456 Flanders St | Repaired | Unknown | Plainville-Southington Regional Health District |
| Health District File System | 187 Huckleberry Lane | Repaired | Unknown | Plainville-Southington Regional Health District |

3.5 Briefly describe the method and effectiveness of said method used to track illicit discharge reports.

- Illicit discharge reports as well as other stormwater and erosion related issues/concerns are received by the Department of Public works. The information is put into Municipality (permit and complaint tracking system) and stored in a database. The DPW administrative assistant and/or engineer reviewing the report have the ability to generate a work request via email to investigate and follow through on resolving the issue reported.

3.6 IDDE reporting metrics

| Metrics | |
|--|------|
| Estimated or actual number of MS4 outfalls | 1299 |
| Estimated or actual number of interconnections | 124 |
| Outfall mapping complete | 95% |
| Interconnection mapping complete | 95% |
| System-wide mapping complete (detailed MS4 infrastructure) | 90% |
| Outfall assessment and priority ranking | TBD |
| Dry weather screening of all High and Low priority outfalls complete | 100% |
| Catchment investigations complete | 0% |
| Estimated percentage of MS4 catchment area investigated | 0% |

3.7 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).

- An MS4 and IDDE training program was developed for presentation to all Town personnel that may come into contact with stormwater or that may review applications and plans that impact stormwater quality. Due to safety restrictions resulting from the COVID-19 pandemic, select Town personnel attended the following virtual trainings:
 - Reevaluating Stormwater Design in a Changing Climate (January 26, 2021)
 - Stormwater Utilities; Real Estate Conveyance Fees, Flood, Erosion & Control Boards, etc. (February 11, 2021)
 - The NEMO Rain Garden App -- Reborn!, UConn CLEAR (March 24, 2021)
 - EPA Webinar: MS4 Construction Site Inspections: Key Elements and Best Practices (May 12, 2021)
 - MS4 Compliance & Stormwater Regulations (May 27, 2021.)
 - DPW staff attended SWPPP & MS4 in-person training conducted by Barton & Loguidice (September 17, 2021)
 - Funding for Stormwater Operations and Maintenance Webinar (September 21, 2021)

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 | Date completed/ projected | Additional details |
|---|----------|--|---|---|------------------------------|--|
| 4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit (Due 7/1/20) | On-going | Implemented a change in the zoning regulations that allows for less required parking areas for new developments; therefore, reducing the amount of impervious area. | Continually update stormwater regulations in the Land Use documents | Planning & Zoning, Conservation Commission, IW/Directors | Jul 1, 2019 On-going | The Town has established a “zero increase” in peak flow runoff (storage up to the 25 year storm event) in the regulations for new site plans and subdivisions |
| 4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing) | Complete | Zoning and building permits are tracked using Municipality Software Permit System | Permitting System tracking | Planning, Engineering, Health, Fire, Building departments/dept. Directors | Jul1, 2017 | Very good coordination exists between all development departments for technical review. Comments are tracked by the Planning Department. |
| 4-3 Review site plans for stormwater quality concerns (Ongoing) | On-going | Engineering and Planning conduct comprehensive site plan/subdivision plan reviews that incorporate proper stormwater controls and BMP’s to prevent impacts to water quality. | Permitting System tracking | Engineering, Planning/Directors | Jul 1, 2017 On-going | The Town executes a standard Stormwater Connection Agreement with any property who makes a direct connection to the MS4. |
| 4-4 Conduct site inspections (Ongoing) | On-going | Engineering & Planning conduct site inspections during installation of public improvements as well as during land disturbances. | | Planning, Engineering, Health, Fire, Building/Department heads | Jul 1, 2017 On-going | The purpose of the Town’s routine inspections is to assess the adequacy of the installation, maintenance, operation and repair of construction and post-construction control measures and enforcement. |
| 4-5 Implement procedure to allow public comment on site development (Ongoing) | Complete | The Town follows all State of CT Public hearing requirements on applications for P&Z, Subdivision, IW, etc. | Receipt of Green-cards for hearing notices. | P&z, Conservation, IW/Directors | Jul 1, 2017 | The Town follows up on all public comments received during and after the public hearings. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Date completed/ projected | Additional details |
|--|----------|--|---------------------------|---------------------------------|---------------------------|--|
| 4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing) | Complete | Amount of disturbed area is verified with each application. If the total disturbed area is five or more acres, a "Stormwater and Dewatering Wastewaters from Construction Activities" general permit is required by CT DEEP. | Items of checklist review | Planning/Engineering/Directors | July 1, 2017 | This is an on-going process and the Town will make changes as necessary. |

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

- Update the Town of Southington's Stormwater regulations, as necessary, to comply with the MS4 requirements.
- Continue to review all design plans for regulation consistency.
- Continue to follow all State public notice and hearing requirements and follow up on all comments and complaints received.
- Continue routine inspection of active construction sites.
- Implement a checklist for inspector's use when visiting construction sites.

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 | Date completed / projected | Additional details |
|---|----------|---|--|--|----------------------------|---|
| 5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning (Due 7/1/22) | On-going | Current Zoning and Subdivision regulations including the Conservation Plan of Development include the use of LID for land use design | Full adoption of LID. Regulations to reduce impervious coverage. | Public works, P&Z, Conservation Commission, IW/Director | December 2022 | Need to establish legal authority provisions |
| 5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22) | On-going | Staff reviewed of Zoning & subdivision regulations to determine possible modifications to better match the requirement of the 2017 General Permit | The adoption of a LID ordinance. | Public Works, Zoning Enforcement/Directors of each department. | Jul 1, 2019 On-going | The Town has a Zero increase in runoff (ZIRO) guideline in the Zoning/subdivision regulations since 2005. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Date completed / projected | Additional details |
|---|----------|--|---|--|----------------------------|---|
| 5-3 Identify retention and detention ponds in priority areas (Due 7/1/20) | Complete | All detention ponds are mapped on the GIS drainage layer | Complete list including inspections & ranking of all basins | Public Works/Director | Jul 1, 2019 | |
| 5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing) | On-going | The Town performs annual inspections and removes accumulated sediment, as necessary. | Complete list of all these structures. | Public Works/Director | Jul 1, 2019 | The Town is reviewing current procedures and will improve for compliance with MS4 GP. |
| 5-5 DCIA mapping (Due 7/1/20) | On-going | Town is in the process of analyzing DCIA from mapping provided by UConn Clear. | Calculate DCIA | Public Works/Director | Nov 15, 2019 On-going | The Town will develop & maintain DCIA within the MS4 priority area. |
| 5-6 Address post-construction issues in areas with pollutants of concern | On-going | The Town performs routine inspections and follow-up on complaints received | Prioritize areas subject to erosion and sediment | Engineering/Planning/Health Department – Directors of each department. | On-going | |

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

- Continue to enforce runoff reduction requirements for development and redevelopment projects.
- Expand on data collection for all Town owned detention/retention ponds and underground stormwater treatment structures. The database will also include inspection and maintenance records.
- Continue updating the DCIA mapping, as necessary.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics

| | | |
|---|------------------|----------------------------------|
| Baseline (2012) Directly Connected Impervious Area (DCIA) | 410.48 acres | acres |
| DCIA disconnected (redevelopment plus retrofits) | 0.11 ac / 3.4 ac | acres this year / acres total |
| Retrofit projects completed | 10 | # |
| DCIA disconnected | 0.02% / 0.86% | % this year / % total since 2012 |
| Estimated cost of retrofits | Unknown | \$ |
| Detention or retention ponds identified | 161 | # total |

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

The Town used the baseline DCIA method process from CT 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 / Person Responsible | Date completed/ projected | Additional details |
|--|----------|---|---|--|---------------------------|---|
| 6-1 Develop/implement formal employee training program (Ongoing) | On-going | Parks/Highway/Treatment Plant employees received annual industrial Stormwater and MS4 training. Town conducts additional training in street sweeping, catch basin cleaning and repairing, retrofitting of the stormwater system. | Continue to ensure that all town employees are educated to recognize pollutant sources, prevent or reduce pollutant runoff from municipal operations, and implement erosion and sedimentation and stormwater controls to meet the requirements of the Permit. | Public Works/Director | On-going | Due to safety restrictions resulting from the COVID-19 pandemic, select Town personnel attended six virtual trainings that occurred throughout 2021. (See Section 3.7 for details.) |
| 6-2 Implement MS4 property and operations maintenance (Ongoing) | On-going | Under the Industrial General Permit, the Town's Bulky Waste and Garage properties are being maintained. Stormwater samples are being done by B&L and submitted to CT DEEP. Parks and trails are being inspected and maintained throughout the year. | Identify and evaluate town buildings and facilities whose operations may impact stormwater runoff and provide operation maintenance recommendations for each facility. Maintain all Town owned properties in accordance with MS4 GP | Public Works, Town Facilities Managers/Directors, Parks & Recreation Commission, Conservation Commission | Jul 1, 2018 On-going | The Town continues reviewing current practices and looking for areas for optimization. |
| 6-3 Implement coordination with interconnected MS4s | On-going | The Town has acquired DOT mapping of basins and outfalls. | Map and identify all interconnected MS4's | Public Works/Director | On-going | The Town has already shared GIS information with New Britain, Bristol, Plainville & Cheshire. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Date completed/ projected | Additional details |
|--|---------------|---|---|--|----------------------------------|--|
| 6-4 Develop/implement program to control other sources of pollutants to the MS4 | Completed | Town has implemented a pesticide/fertilizer application policy as well as Standard Operating Procedures for snow management. | Develop and implement a program to control the contribution of pollutants to the MS4 from commercial, industrial, municipal, institutional or other facilities. | Public works/Director | On-going | The dog park and the paved linear trail have pet waste disposal signs and trash receptacles that regularly get emptied. |
| 6-5 Evaluate additional measures for discharges to impaired waters* | In progress | Outfalls were identified with high potential to contributing bacteria and they will be reviewed for dog park, parks with open waters and sites with failing septic systems. | On Town-owned or operated lands with a high potential to contribute bacteria, the Town will develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s). | Public Works/Director | On-going | |
| 6-6 Track projects that disconnect DCIA (Ongoing) | In progress | A table was created for tracking disconnected DCIA. On-going additions to the table. | Annually track the total acreage of DCIA that is disconnected from the MS4 as a result of redevelopment or retrofit p | Public Works/director | Jul 1, 2017 On-going | Town is looking into more grant opportunities with Save the Sound for rain garden projects that would disconnect roof drains from the drainage system. |
| 6-7 Implement infrastructure repair/rehab program (Due 7/1/21) | In progress | The Town is in the process of reviewing its programs to repair and rehabilitate its infrastructure in a timely manner to reduce or eliminate the discharge of pollutants | Continue a program to identify MS4 structures to repair, rehabilitate, or upgrade to reduce or eliminate the discharge of pollutants into water bodies | Public Works/Director | December 2022 On-going | The Town continues reviewing current practices and looking for areas for optimization. |
| 6-8 Develop/implement plan to identify/prioritize retrofit projects (Due 7/1/20) | In progress | The Town is reviewing opportunities for redevelopment projects. | Develop a Retrofit Project Plan to identify and prioritize potential DCIA disconnection projects. | Public Works/Director | December 2022 | In 2022, the Town will continue efforts to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Date completed/ projected | Additional details |
|---|-------------|--|---|---------------------------------|---------------------------|---|
| 6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/22) | In progress | The Town is reviewing credit for previously approved projects. | Implement retrofit projects | Public Works/Director | Jul 1, 2022 | In 2022, the Town will continue efforts to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable. |
| 6-10 Develop/ implement street sweeping program (Ongoing) | Complete | All streets and Town maintained parking lots were cleaned and swept in the spring following the winter maintenance activities. Public Building Parking Lots and Municipal Parking Lots are included in this program. School Parking Lots are done by a private contractor. Bid out by the Board of Education every winter. | Continue annual street sweeping program to mitigate sediment and debris on Town roads and properties. | Public Works/Director | Jul 1, 2017 On-going | The Town continues reviewing current practices and looking for areas for optimization. |
| 6-11 Develop/ implement catch basin cleaning program (Ongoing) | Complete | Catch basins were inspected and cleaned out, as necessary, to the maximum extent practicable. | Continue current maintenance program in accordance with the Permit. | Public Works/Director | Jul 1, 2017 On-going | The Town plans to bid out inspection and cleaning services in 2022 using American Rescue Plan funds. |
| 6-12 Develop/ implement snow management practices (Due 7/1/18) | Complete | Road salt is used to treat Town roads rather than a sand mixture. To mitigate wetland impact, snow banks/piles were transferred to a bulky waste site. | Continue current snow management practices in accordance with the Permit. | Public Works/Director | Jul 1, 2018 On-going | The Town continues reviewing current practices and looking for areas for optimization. |

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

- Continue to conduct annual MS4 training events.
- Continue to review MS4 property and operations maintenance practices and look for areas for optimization.
- Continue street sweeping, catch basin cleansing and snow management practices.
- Continue to reduce pesticide application rates on Town owned MS4 properties.
- Continue MS4 interconnection coordination with neighboring Towns and the State.
- Continue tracking projects that disconnect DCIA.
- Using American Rescue Plan funds, the Town has contracted the inspection and cleaning of 137 detention basins starting in 2022 through 2025.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

| Metrics | |
|--|--|
| Employee training provided for key staff | 1/26/21; 2/11/21; 3/24/21; 5/12/21; 5/27/21; 9/21/21 (Select Town Personnel) 9/17/21 (Parks/Highway) |
| Street sweeping | |
| Curb miles swept | ~400 miles |
| Volume (or mass) of material collected | ~550 tons |
| Catch basin cleaning | |
| Total catch basins in priority areas | 6,587 |
| Total catch basins | 6,967 |
| Catch basins inspected | 357 |
| Catch basins cleaned | 357 |
| Volume (or mass) of material removed from all catch basins | ~105 tons |
| Volume removed from catch basins to impaired waters (if known) | Unknown |
| Snow management | |
| Type(s) of deicing material used | Rock salt & magnesium chloride treated rock salt |
| Total amount of each deicing material applied | ~224 tons rock salt ~5,551 tons treated rock salt |
| Type(s) of deicing equipment used | Dump trucks with automated spreaders |
| Lane-miles treated | ~413 miles |
| Snow disposal location | 623 Old Turnpike Road |
| Staff training provided on application methods & equipment | Yes, On-going throughout fall and winter |
| Municipal turf management program actions (for permittee properties in basins with N/P impairments) | |
| Reduction in application of fertilizers (since start of permit) | 170 lbs (reduced from 2019 to 2020) |
| Reduction in turf area (since start of permit) | 0.5 acres (reduced from 2019 to 2020) |
| 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

Provide any updates or modifications to your catch basin cleaning program

The Town of Southington Department of Public Works personnel performed visual inspections of catch basins throughout Town to determine which areas were most in need of cleaning. These observations, in conjunction with anticipated road projects, provide direction on which quadrant of the Town will be cleaned in a given year. The remaining quadrants of Town will be contracted out over the next four years (one quadrant per year) starting in the spring of 2022.

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. (Due 7/1/20)

Town is looking into more grant opportunities with Save the Sound for rain garden projects that would disconnect roof drains from the drainage system. In 2022, the Town will continue to work on identifying and prioritizing potential projects for the Retrofit Program to the maximum extent practicable.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection annually in future years. (Due 7/1/22)

In 2022, the Town will continue to work on identifying and prioritizing potential projects for the Retrofit Program to the maximum extent practicable.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution.

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.

- 1) In 2021, fourteen additional wet weather samples were collected at outfalls that discharge to impaired waterbodies. To-date, at total of 62 of 85 wet weather samples were collected from outfalls that discharge to impaired waters.
- 2) Of the fourteen samples collected in 2021, four of those outfalls exceeded pollutant thresholds and require follow-up investigation. To-date, 28 outfalls sampled in wet weather at impaired outfalls exceeded pollutant thresholds and require follow-up investigation.
- 3) Based on the results of the samples collected the top six (6) worst outfalls have been selected and will be sampled in 2022.

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

2.1 Screening data collected under 2017 permit

| Outfall ID | Sample Date | Latitude | Longitude | Outfall Turbidity (NTU) | Upstream Turbidity (NTU) | E. Coli (col/100mL) | Total Phosphorous (mg/L) | Lab | Investigation Required |
|------------|-------------|------------|-------------|-------------------------|--------------------------|---------------------|--------------------------|---------|------------------------|
| OF-110-5 | 9/25/2018 | 41.6125985 | -72.8796627 | 6.42 | 2.17 | | | Phoenix | NO |
| OF-110-6 | 9/25/2018 | 41.6125910 | -72.8793097 | 6.8 | 2.21 | | | Phoenix | NO |
| OF-137-13 | 12/28/2018 | 41.6337395 | -72.8552509 | 9.9 | 1.19 | | | Phoenix | YES |
| OF-170-1 | 9/25/2018 | 41.6042801 | -72.8825591 | 7.02 | 17.6 | | | Phoenix | NO |
| OF-170-2 | 9/25/2018 | 41.6043029 | -72.8826533 | 6.94 | 16.68 | | | Phoenix | NO |
| OF-220-3 | 9/25/2018 | 41.6469879 | -72.8712885 | 2.59 | 0.73 | 1440 | | Phoenix | YES |
| OF-220-4 | 12/28/2018 | 41.6481933 | -72.8691601 | 0.25 | 2.72 | | | Phoenix | NO |
| OF-220-5 | 12/28/2018 | 41.6481143 | -72.8689917 | 1.1 | 2.8 | | | Phoenix | NO |
| OF-226-2 | 6/18/2019 | 41.5929468 | -72.8476617 | | | 1670 | | Phoenix | YES |
| OF-24-1 | 6/18/2019 | 41.5934893 | -72.8858710 | 9.89 | 3.21 | 9000 | | Phoenix | YES |
| OF-250-3 | 6/18/2019 | 41.5975956 | -72.8862296 | 3.71 | 1.88 | 4880 | | Phoenix | YES |
| OF-250-6 | 6/18/2019 | 41.5989042 | -72.8856834 | 4.5 | 2.53 | 3260 | | Phoenix | YES |
| OF-250-7 | 9/25/2018 | 41.5993821 | -72.8854859 | 8.18 | 8.95 | | | Phoenix | NO |
| OF-26-2 | 6/18/2019 | 41.5732944 | -72.8669540 | | | 2480 | | Phoenix | YES |
| OF-273-13 | 6/18/2019 | 41.5595194 | -72.8736833 | | | 4610 | | Phoenix | YES |
| OF-273-4 | 9/25/2018 | 41.5698507 | -72.8734671 | 1.07 | 1.81 | 3970 | | Phoenix | YES |
| OF-273-6 | 9/25/2018 | 41.5697454 | -72.8732725 | 1.46 | 1.44 | 211 | | Phoenix | NO |
| OF-274-1 | 6/18/2019 | 41.6008165 | -72.8848318 | 21.6 | 4.01 | 2910 | | Phoenix | YES |
| OF-274-2 | 6/18/2019 | 41.6021435 | -72.8842510 | 7.14 | 3.79 | 19900 | | Phoenix | YES |
| OF-274-5 | 6/25/2019 | 41.6031841 | -72.8834120 | 0 | 0.96 | | | Phoenix | NO |
| OF-279-1 | 6/18/2019 | 41.5995434 | -72.8852986 | 7.5 | 1.89 | 14100 | | Phoenix | YES |
| OF-290-1 | 6/18/2019 | 41.5924982 | -72.8510273 | | | 1440 | | Phoenix | YES |
| OF-302-2 | 12/28/2018 | 41.6426579 | -72.8533152 | 1.34 | 9.4 | | | Phoenix | NO |
| OF-302-3 | 12/18/2018 | 41.6425098 | -72.8531356 | | 0.86 | | | Phoenix | NO |
| OF-307-2 | 9/25/2018 | 41.5673879 | -72.8764145 | 1.63 | 2.61 | 457 | | Phoenix | YES |
| OF-307-3 | 9/25/2018 | 41.5667859 | -72.8771880 | 6.76 | 2.72 | 2610 | | Phoenix | YES |
| OF-312-1 | 9/25/2018 | 41.6395115 | -72.8816729 | 1.64 | 5.17 | | | Phoenix | NO |
| OF-322-4 | 6/18/2019 | 41.5725744 | -72.8669837 | | | 6130 | | Phoenix | YES |
| OF-355-1 | 9/25/2018 | 41.6410539 | -72.8544266 | 2.84 | 12.67 | | | Phoenix | NO |
| OF-362-1 | 12/28/2018 | 41.6421404 | -72.8530585 | 0.76 | 9.2 | | | Phoenix | NO |
| OF-373-1 | 9/25/2018 | 41.6281419 | -72.8547848 | 3.99 | 3.23 | | | Phoenix | NO |
| OF-373-2 | 12/28/2018 | 41.6281795 | -72.8545357 | 0.75 | 9.2 | | | Phoenix | NO |
| OF-373-3 | 6/25/2019 | 41.6279144 | -72.8544707 | 6.09 | 0.41 | 24200 | | Phoenix | YES |

| Outfall ID | Sample Date | Latitude | Longitude | Outfall Turbidity (NTU) | Upstream Turbidity (NTU) | E. Coli (col/100mL) | Total Phosphorous (mg/L) | Lab | Investigation Required |
|------------|-------------|-------------|--------------|-------------------------|--------------------------|---------------------|--------------------------|---------|------------------------|
| OF-391-4 | 6/18/2019 | 41.5927549 | -72.8578598 | | | 2100 | | Phoenix | YES |
| OF-394-1 | 9/25/2018 | 41.5663374 | -72.8772964 | 3.38 | 1.4 | 2280 | | Phoenix | YES |
| OF-404-13A | 9/25/2018 | 41.5648070 | -72.8832425 | 1.63 | 11.2 | 404 | | Phoenix | YES |
| OF-406-2 | 9/25/2018 | 41.6322984 | -72.8561304 | 51.1 | 53.8 | | | Phoenix | NO |
| OF-429-6 | 9/25/2018 | 41.6285516 | -72.8545188 | 16.6 | 12.27 | | | Phoenix | NO |
| OF-432-2 | 12/28/2018 | 41.6264588 | -72.8520709 | 0.34 | 9.45 | | | Phoenix | NO |
| OF-432-3 | 6/25/2019 | 41.6268014 | -72.8521203 | 0 | 0 | 161 | | Phoenix | NO |
| OF-432-4 | 12/28/2018 | 41.6268297 | -72.8523531 | 54.7 | 9.45 | | | Phoenix | YES |
| OF-44-1 | 9/25/2018 | 41.5701514 | -72.8706327 | 2.73 | 2.32 | >24200 | | Phoenix | YES |
| OF-477-1 | 6/18/2019 | 41.5739981 | -72.8665649 | | | 2280 | | Phoenix | YES |
| OF-63-6 | 9/25/2018 | 41.6134802 | -72.8780096 | 5.78 | 4.54 | | | Phoenix | NO |
| OF-76-1 | 12/28/2018 | 41.6477605 | -72.8621129 | 0.94 | 2.22 | | | Phoenix | NO |
| OF-76-2 | 12/28/2018 | 41.6477976 | -72.8620392 | 1.11 | 2.22 | | | Phoenix | NO |
| OF-8-1 | 9/25/2018 | 41.5777287 | -72.8974598 | 3.26 | 3.12 | | | Phoenix | NO |
| OF-83-1 | 6/18/2019 | 41.5983017 | -72.8858356 | 12.1 | 3.15 | 15500 | | Phoenix | YES |
| OF-194-10 | 11/12/2021 | 41.56577924 | -72.88967687 | 2.91 | 15.4 | | | Phoenix | NO |
| OF-194-11 | 11/12/2021 | 41.56567788 | -72.88995465 | 4.36 | 15.4 | | | Phoenix | NO |
| OF-194-7 | 11/12/2021 | 41.57018385 | -72.88887320 | 20.9 | 16.7 | 1620 | 0.246 | Phoenix | YES |
| OF-194-8 | 11/12/2021 | 41.56981313 | -72.88892089 | 9.61 | 16.7 | 144 | 0.058 | Phoenix | NO |
| OF-220-1A | 11/12/2021 | 41.64476451 | -72.87303596 | 2.14 | 2.46 | 30 | | Phoenix | NO |
| OF-220-1B | 11/12/2021 | 41.64476451 | -72.87303596 | 2.5 | 2.46 | 2360 | | Phoenix | YES |
| OF-220-2 | 11/12/2021 | 41.64532229 | -72.87269867 | 1.5 | 2.82 | 63 | | Phoenix | NO |
| OF-220-6 | 11/12/2021 | 41.65113100 | -72.86612700 | 9.3 | 2.83 | 75 | | Phoenix | YES |
| OF-307-1 | 11/12/2021 | 41.56903100 | -72.87604700 | 8.2 | 5.59 | 1620 | | Phoenix | YES |
| OF-314-2 | 11/12/2021 | 41.58231100 | -72.86091800 | 4.8 | 6.24 | 323 | | Phoenix | NO |
| OF-404-10C | 11/12/2021 | 41.56403725 | -72.87624335 | 8.56 | 4.32 | 41 | | Phoenix | NO |
| OF-494-1 | 11/12/2021 | 41.64844062 | -72.86713727 | 2.48 | 18 | | | Phoenix | NO |
| OF-497-1 | 11/12/2021 | 41.56578241 | -72.88506273 | 6.91 | 12.64 | | | Phoenix | NO |
| OF-628-1 | 11/12/2021 | 41.57691589 | -72.86422637 | 1.89 | 6.36 | 52 | | Phoenix | NO |

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 | Latitude / Longitude | Sample date | Parameter | Results | Name of Laboratory | Follow-up required? * |
|---------|----------------------|-------------|-----------|---------|--------------------|-----------------------|
| N/A | | | | | | |

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

Provide the following information for outfalls exceeding the pollutant threshold.

| Outfall ID | Status of drainage area investigation | Control measure to address impairment |
|--|---------------------------------------|---------------------------------------|
| It is anticipated that this will be initiated during 2022. | | |

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

Once outfall sampling 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 | Latitude / Longitude | Sample Date | Parameter(s) | Results | Name of Laboratory (if used) |
|---------|----------------------|-------------|--------------|---------|------------------------------|
|---------|----------------------|-------------|--------------|---------|------------------------------|

It is anticipated that this will be conducted annually, starting prior to June 30, 2022.

Part III: Additional IDDE Program Data

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 | 2. Category | 3. Rank |
|-----------------|-------------|---------|
|-----------------|-------------|---------|

This table is in progress and it is anticipated that it will be completed during 2022.

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.

Table 2.1a – Non-Impaired Waterbody Samples

| Outfall ID | Sample Date | Latitude | Longitude | Ammonia (mg/L) | Chlorine (mg/L) | Conductivity (umhos/cm) | Salinity (g/kg) | Temp (oC) | MBAs (mg/L) | E. Coli (col/100ml) | Lab | Investigation Required |
|------------|-------------|-------------|--------------|----------------|-----------------|-------------------------|-----------------|-----------|-------------|---------------------|---------|------------------------|
| OF-179-3 | 9/18/2019 | 41.5757309 | -72.87587364 | 0 | 0.11 | 460 | 0.213 | 6.7 | 0.25 | 10 | Phoenix | NO |
| OF-227-2 | 7/9/2019 | 41.5667228 | -72.85978946 | 0 | 0.04 | 516 | 0.22 | 18.1 | 0.25 | 144 | Phoenix | NO |
| OF-28-1 | 7/9/2019 | 41.57042271 | -72.8996247 | 0 | 0.06 | 674 | 0.316 | 19.7 | 0.25 | 17300 | Phoenix | NO |
| OF-28-4A | 7/9/2019 | 41.57115767 | -72.91325791 | 0 | 0.01 | 453 | 0.211 | 17.2 | 0.25 | <10 | Phoenix | NO |
| OF-33-14 | 7/9/2019 | 41.57174201 | -72.90127825 | 0 | 0.06 | 1280 | 0.612 | 20.9 | 0.25 | 122 | Phoenix | NO |
| OF-342-1 | 9/26/2019 | 41.58687156 | -72.87550711 | 0.25 | 0.04 | 495 | 0.213 | 26.3 | 0 | 41 | Phoenix | NO |
| OF-383-1 | 7/9/2019 | 41.56630127 | -72.85762074 | 0 | 0.03 | 465 | 0.213 | 16.3 | 0.25 | 20 | Phoenix | NO |
| OF-398-1 | 7/9/2019 | 41.56468392 | -72.87093454 | 0 | 0.02 | 482 | 0.213 | 15.5 | 0.25 | <10 | Phoenix | NO |
| OF-400-2 | 7/9/2019 | 41.56075619 | -72.86038117 | 0 | 0.03 | 615 | 0.172 | 21.3 | 0.25 | 487 | Phoenix | NO |
| OF-400-3 | 7/9/2019 | 41.56188774 | -72.86023584 | 0 | 0.04 | 635 | 0.298 | 19.8 | 0.25 | 450 | Phoenix | NO |

Table 2.1a – Non-Impaired Waterbody Samples

| Outfall ID | Sample Date | Latitude | Longitude | Ammonia (mg/L) | Chlorine (mg/L) | Conductivity (umhos/cm) | Salinity (g/kg) | Temp (oC) | MBAs (mg/L) | E. Coli (col/100ml) | Lab | Investigation Required |
|------------|-------------|-------------|--------------|----------------|-----------------|-------------------------|-----------------|-----------|-------------|---------------------|---------|------------------------|
| OF-408-2 | 7/9/2019 | 41.56247041 | -72.85676655 | 0.25 | 0.04 | 370 | 0.279 | 16 | 0.5 | 2100 | Phoenix | NO |
| OF-527-1 | 7/9/2019 | 41.57156721 | -72.90013719 | 0 | 0.14 | 884 | 0.412 | 16.8 | 0.25 | 441 | Phoenix | NO |
| OF-66-16 | 9/18/2019 | 41.61428905 | -72.86580545 | 0 | 0.04 | 69.1 | 0.0323 | 8.6 | 0.5 | 74 | Phoenix | NO |
| OF-8-3 | 9/18/2019 | 41.57867901 | -72.89857857 | 0 | 0.03 | 1143 | 0.559 | 9.9 | 0.5 | <10 | Phoenix | NO |

Table 2.1b – Impaired Waterbody Samples

| Outfall ID | Sample Date | Latitude | Longitude | E. Coli (col/100ml) | Turbidity at Outfall (NTU) | Turbidity Upstream (NTU) | Lab | Investigation Required |
|------------|-------------|-----------|------------|---------------------|----------------------------|--------------------------|---------|------------------------|
| OF-24-1 | 9/18/2019 | 41.593489 | -72.885871 | <10 | 2.89 | 2.12 | Phoenix | NO |
| OF-44-1 | 7/9/2019 | 41.570151 | -72.870633 | 8660 | | | Phoenix | YES |

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. You may also attach a lab report with the same data rather than copying it to this table.

| Outfall / Interconnection ID | Latitude / Longitude | Sample date | Ammonia | Chlorine | Conductivity | Salinity | E. coli or Enterococcus | Surfactants | Water Temp | Pollutant of concern |
|------------------------------|----------------------|-------------|---------|----------|--------------|----------|-------------------------|-------------|------------|----------------------|
|------------------------------|----------------------|-------------|---------|----------|--------------|----------|-------------------------|-------------|------------|----------------------|

It is anticipated that this will be initiated during 2022.

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.

| Outfall ID | Receiving Water | System Vulnerability Factors |
|------------|-----------------|------------------------------|
|------------|-----------------|------------------------------|

This table is in progress and it is anticipated that it will be completed during 2022.

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).
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 | Latitude / Longitude | Screening / Sample date | Visual/ olfactory evidence of illicit discharge | Ammonia | Chlorine | Surfactants |
|--|-------------------------|----------------------------|---|---------|----------|-------------|
| It is anticipated that this will be initiated during 2022. | | | | | | |

3.3 Wet weather investigation outfall sampling data

| Outfall ID | Latitude / Longitude | Sample date | Ammonia | Chlorine | Surfactants |
|--|-------------------------|-------------|---------|----------|-------------|
| It is anticipated that this will be initiated during 2022. | | | | | |

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 |
|--|-----------------|--------------------------|---------------------|----------------------|------------------------|-------------------------------------|-------------------------------------|
| It is anticipated that this will be initiated during 2022. | | | | | | | |

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:

Mark J. Sciota
Town Manager

Signature / Date:

Email:

sciotam@southington.org



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3/18/2022

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