

MS4 General Permit
City of New Britain, 2019 Annual Report
Existing MS4 Permittee
Permit Number GSM 000064
[January 1, 2019 – December 31, 2019]

This report documents the City of New Britain's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2019 to December 31, 2019.

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	In progress / Ongoing	The City provided a section on "Stormwater Management in Connecticut" on measures to take to help reduce pollution and improve water quality in its annual Water Quality Report. The City also updated its website to provide additional information related to Stormwater Pollutants of Concern, along with general pollutant reduction practices for residents.	Develop and implement public education program	DPW	Jul 1, 2018	Jul 1, 2018	Public education and outreach program is ongoing.
1-2 Address education/ outreach for pollutants of concern*	In progress / Ongoing	The City provided a section on "Stormwater Management in Connecticut" on measures to take to help reduce pollution and improve water quality in its annual Water Quality Report	Identify pollutants and incorporate into BMP 1-1	DPW	Jul 1, 2018	Jul 1, 2018	Public education and outreach program is ongoing.

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

Update and expand the public education program with additional website information. Continue outreach program as detailed under Minimum Measure 2, including public speaking engagements.

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Publish section on “Stormwater Management in Connecticut” on measures to take to help reduce pollution and improve water quality in its annual Water Quality Report. This is mailed annually to all people on City water.	Residents and businesses (approx. 70,000)	Proper car care, material storage and disposal, fertilizer usage, pet waste collection, car washing, septic system maintenance, illicit discharges, disconnected impervious area, water conservation.	Phosphorus, nitrogen, bacteria	DPW
Host a 2-hour joint Water Summit with a focus on water and sewer-related subjects targeting applicable City staff. A tour of the treatment plant was conducted after presentations concluded.	City staff and departments (approx. 50)	Topics included water quality treatment and overview, illicit discharge detection and elimination, field investigations, and MS4 permit compliance	N/A	DPW
Provided school tours of the treatment plant.	Students (approx. 75)	Topics included illicit discharges and other stormwater-related topics.	N/A	DPW

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

2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan	Complete	New Britain published the public notice online on April 1, 2017 during a previous reporting period and the plan is still available for download.	Publish SMP and issue public notice requesting comments	DPW	Apr 3, 2018	Apr 1, 2017	The SMP remains available online, along with additional information on the MS4 permit. To date, no comments have been received.
2-2 Comply with public notice requirements for Annual Reports	Complete / Ongoing	New Britain published the annual report online on February 14, 2020.	Publish annual reports and issue public notice requesting comments	DPW	Feb 15, 2020	Feb 14, 2020	The annual report is available online for public comment.

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

Continue to make the Stormwater Management Plan and Annual Report available online and for public comment. Continue to host periodic public outreach and participation events as time and schedule allows. Engagements are expected to include periodic public speaking engagements with a combination of topics that include stormwater, drinking water, and sewer, as well as the targeted education events outlined under Minimum Measure 1.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	Apr 1, 2017	http://www.newbritainct.gov/services/public_works/programs_n_services/storm_water_management.htm
Availability of Annual Report announced to public	Yes	Feb 14, 2020	http://www.newbritainct.gov/services/public_works/programs_n_services/storm_water_management.htm

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

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	Complete / Ongoing	The City completed the written IDDE program in full compliance with permit requirements during a previous reporting period in 2017.	Develop and implement IDDE program	DPW	Jul 1, 2018	Apr 1, 2017	Compliance with the written program is ongoing.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Complete / Ongoing	New Britain mapped all known and accessible outfalls throughout the city in 2016 and early 2017 during a previous reporting period. Additional information, including manholes and pipe connectivity, were also included.	Complete and update mapping	DPW, Engineering	Jul 1, 2019	Apr 1, 2017	As more outfalls are located, they are added to the City's GIS database.
3-3 Implement citizen reporting program	Complete / Ongoing	The City established a utility called SeeClickFix that allows users from a website or mobile device to report an illicit discharge. New Britain also publishes a phone number in the annual Water Quality Report for citizens to report illegal activities.	Develop program and investigate citizen reports	DPW	Jul 1, 2017	Jul 1, 2017	Tracking of citizen complaints is ongoing. During 2019, the City received 0 complaints.
3-4 Establish legal authority to prohibit illicit discharges	Complete / Ongoing	New Britain reviewed its IDDE bylaws during a previous reporting period and has determined that it has sufficient legal authority as required under the Permit.	Establish and enforce legal authority	DPW; Engineering, Licenses, Permits & Inspection	Jul 1, 2018	Jul 1, 2018	Illicit discharge enforcement is ongoing.
3-5 Develop record keeping system for IDDE tracking	Complete / Ongoing	The City developed an IDDE tracking database as part of its written IDDE program, completed in early 2017 during a previous reporting period. During 2019, the City removed one illicit discharge identified on Vance Street identified during catchment investigations. See Part II and Part III at the end of this report for more information.	Develop and implement IDDE tracking system	DPW	Jul 1, 2017	Jul 1, 2017	Tracking of illicit discharges is ongoing.

3.1 BMP Summary (continued)

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-6 Address IDDE in areas with pollutants of concern	In progress / Ongoing	New Britain is actively investigating illicit discharges through its program of dry and wet weather sampling. The City continued investigations in the C9/N1 project area, and also identified an illicit discharge at 98 Newington Avenue.	Review impaired water guidance and track progress of BMPs for impaired waters	DPW	Not specified	Ongoing	As part of an agreement with CT DEEP, the City has a 3-year plan in place to investigate areas with indications of illicit discharges. These investigations are ongoing. The City recently performed work in areas N1 and C9 and expects to remove remaining illicit discharges in 2020. The City is also working with the home-owner on Newington Avenue to remove the illicit connection.
3-7 Outfall and interconnection dry weather screening and sampling	Complete	The City investigated all known and accessible outfalls to collect samples and perform other screening activities in 2016 during dry weather. No additional dry weather screening was performed during 2019 due to general wet weather and high groundwater levels.	Develop and implement screening procedures	DPW	Varies	Apr 1, 2017	As part of an agreement with CT DEEP, the City has a 3-year plan in place to investigate areas with indications of illicit discharges. These investigations are ongoing. The City is also performing ongoing wet weather sampling as funding allows.
3-8 Sanitary Sewer Overflows (SSOs) Inventory	Complete / Ongoing	New Britain created an SSO inventory of all known overflows dating back to 2012 as part of its SMP. Information was updated to reflect events of the past year.	Create SSO inventory and report new SSOs	DPW	Oct 29, 2017	Apr 1, 2017	SSO inventory update and investigations are ongoing.

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

The City recently expanded its SeeClickFix utility to make reporting illicit discharges easier by adding additional categories to the reporting feature. As part of an agreement with CT DEEP, the City has a 3-year plan in place to investigate areas with indications of illicit discharges. These investigations are ongoing. The City also plans to continue select wet weather sampling as funding allows. Many other items are ongoing, such as illicit discharge investigations, bylaw enforcement, infrastructure mapping, SSO and IDDE inventorying and tracking, etc.

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

Date of Report	Location / suspected source	Response taken

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)
See attached table						

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

The City uses an Illicit Discharge Tracking Form as part of its IDDE Plan, completed in 2017. This form in part documents the location, cause, description of the event, and corrective actions taken. Information is recorded in an electronic database that in part tracks illicit discharge reports, locations, and response efforts. New Britain updates the database as reports come in and follow-up actions are performed. This information is the responsibility of the Deputy Director of Public Works, Utility Division and Superintendent of Water and Sewer.

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

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	Approx. 290 (271 located to date)
Estimated or actual number of interconnections	#
Outfall mapping complete	95%
Interconnection mapping complete	(%)
System-wide mapping complete (detailed MS4 infrastructure)	80%
Outfall assessment and priority ranking	95%
Dry weather screening of all High and Low priority outfalls complete	95%
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).

IDDE training is conducted annually for employees involved in the IDDE program. Training generally includes the following topics: information on how to identify illicit discharges and SSOs; impacts from fats, oils, and greases; pollution in the environment and waterways; and employee roles within the framework of the IDDE program. IDDE training is performed concurrent with Good Housekeeping measures outlined under BMP 6-1.

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

4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	In progress / Ongoing	The City has continued review of existing regulations to confirm legal authority or areas where modifications are required.	Establish and enforce legal authority	Engineering; Licenses, Permits & Inspection	Jul 1, 2019	Jul 1, 2019	Existing regulations were enforced during this reporting period, and will continue to be enforced until updated as required to meet permit requirements.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete	A plan was developed to coordinate between departments on site plan review and approval.	Develop and implement coordination plan	Licenses, Permits & Inspection	Jul 1, 2017	Jul 1, 2017	Departments coordinate as needed to complete site plan review as noted under BMP 4-3.
4-3 Review site plans for stormwater quality concerns	Complete / Ongoing	Site plans were reviewed for all development and redevelopment projects with soil disturbance greater than 1 acre.	Perform site plan reviews	Engineering; Licenses, Permits & Inspection	Jul 1, 2017	Jul 1, 2017	New Britain also provides developers with a checklist as noted under BMP 4-6 that in part addresses stormwater controls to minimize impacts to water quality.
4-4 Conduct site inspections	Complete / Ongoing	Site inspections were performed for all development and redevelopment projects with soil disturbance greater than 1 acre.	Perform site inspections	Licenses, Permits & Inspections	Jul 1, 2017	Jul 1, 2017	The Building Inspector conducts formal site inspections that in part address construction and post-construction stormwater control measures such as erosion and sediment controls. Additional informal inspections are conducted during routine site visits.
4-5 Implement procedure to allow public comment on site development	Complete / Ongoing	The City established procedures during a previous reporting period for receipt and consideration of information submitted by the public.	Develop and implement public comment period	Licenses, Permits & Inspections	Jul 1, 2017	Jul 1, 2017	Information may be submitted via a web link under the Department of Public Works webpage. See item 4.2 below for additional information.

4.1 BMP Summary (continued)

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Complete / Ongoing	New Britain developed a checklist during a previous reporting period that is provided to developers, with one item addressing DEEP's construction stormwater permit.	Develop and implement notification procedure	Engineering, Licenses, Permits & Inspections	Jul 1, 2017	Jul 1, 2017	All developers are provided the checklist when filing for a permit.

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

The City will continue to determine required land use regulatory updates that will be required during future permit years.

The City will continue to post a list of Site Plan Applications with soil disturbance greater than 1 acres as received by the Building Department on its dedicated Stormwater Management website, available at http://www.newbritainct.gov/services/public_works/programs_n_services/stormwater_management.htm. Users are instructed to contact the Building Department for information or to comment on any applications as required by BMP 4-5.

Additional items are ongoing, such as site plan review, site inspections, and outreach to developers.

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

5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In progress / ongoing	Continued to enforce current regulations.	Evaluate and develop guidelines	Engineering; Licenses, Permits & Inspection	Jul 1, 2021	Jul 1, 2021	No progress to date on new regulations. Existing regulations were enforced during this reporting period.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In progress / ongoing	The City began reviewing its existing regulations to determine changes in order to meet permit compliance.	Enforce regulations	Engineering; Licenses, Permits & Inspection	Jul 1, 2019	Jul 1, 2019	Existing regulations were enforced during this reporting period. Begin implementation by July 1, 2020.
5-3 Implement long-term maintenance plan for stormwater basins and treatment structures in priority areas	Not started	The City began working towards implementing a long-term maintenance plan for its stormwater treatment BMPs.	Inventory applicable retention and detention ponds and develop and implement long-term maintenance plan	DPW, Engineering	Jul 1, 2019	Jul 1, 2019	Begin implementation by July 1, 2020.
5-4 DCIA mapping	In progress / ongoing	The City began to determine the methodology for tracking DCIA as part of ongoing development projects.	Develop and update DCIA mapping and calculation	Engineering	Jul 1, 2020	Jul 1, 2020	See item 5.4 below for additional information.
5-5 Address post-construction issues in areas with pollutants of concern	Not started	No progress.	Identify projects in catchments that discharge to impaired waters	Engineering	Not specified	To be determined	No progress to date.

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

New Britain will complete updates to its LID regulations, retention and detention pond inventory, and developing a long-term maintenance plan for stormwater basins and treatment structures as per the requirements of BMPs 5-2 and 5-3 above.

5.3 Post-Construction Stormwater Management reporting metrics

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

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

Due to historic development throughout the City, New Britain has substantial impervious area. As the City has an extensive GIS database of land use, we intend to track impervious area changes through this system. As development projects are submitted to various departments, the City will require developers to provide an index of both existing impervious area (connected and disconnected) and proposed impervious area (connected and disconnected) for each parcel impacted by development or redevelopment. The definition of DCIA will be consistent with permit requirements and based on retaining a portion of the Water Quality Volume. DCIA is based on an existing baseline map using 2012 data obtained from CT DEEP. This information will be incorporated into the City's GIS system and tracked on an annual basis. As DCIA is tracked during subsequent years, this tracking methodology may be updated based on results of the program.

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

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	Complete / Ongoing	The City continued its training program established under the previous permit.	Perform annual employee training	DPW	Jul 1, 2017	Jul 1, 2017	Good housekeeping training is performed concurrently with IDDE training as outlined in Section 3.8.
6-2 Implement MS4 property and operations maintenance	Not started	The City has started to develop and implement an O&M program for municipally-owned property that discharges to the MS4.	Develop and implement maintenance procedures	DPW	Jul 1, 2018	Jul 1, 2018	Complete program as allowed within fiscal constraints.
6-3 Implement coordination with interconnected MS4s	Complete / Ongoing	New Britain has reached out to two interconnected MS4s to coordinate on outfall and catchment investigations.	Identify MS4s and attend coordination meetings	DPW	Not specified	Ongoing	Other MS4s contacted include ConnDOT and the Central Connecticut State University.
6-4 Develop/implement program to control other sources of pollutants to the MS4	In progress	The City is developing a plan based on ongoing water quality testing in conjunction with BMP 6-5.	Develop and implement pollutant source control program	DPW, Engineering	Not specified	Ongoing	As water quality testing is performed during subsequent years, the plan will continue to be refined to prioritize areas for further investigation.
6-5 Evaluate additional measures for discharges to impaired waters*	In progress	The City is developing a plan based on ongoing water quality testing in conjunction with BMP 6-4.	Develop and implement measures for discharges to impaired waters	DPW	Not specified	Ongoing	As water quality testing is performed during subsequent years, the plan will continue to be refined to prioritize areas for further investigation.
6-6 Track projects that disconnect DCIA	Complete / In progress	New Britain has developed a DCIA tracking methodology as outlined in Section 5.4.	Track DCIA percentage	Engineering	Jul 1, 2017	Jul 1, 2017	DCIA tracking is ongoing.
6-7 Implement infrastructure repair/rehab program	Not started	No progress.	Evaluate, develop, and implement infrastructure program	DPW	Jul 1, 2021	Jul 1, 2021	No progress to date.

6.1 BMP Summary (continued)

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-8 Develop/implement plan to identify/prioritize retrofit projects	Not started	No progress.	Develop retrofit plan / implement plan to remove 1% of DCIA annually	Engineering	Jul 1, 2020 / Jul 1, 2022	Jul 1, 2020 / Jul 1, 2022	No progress to date.
6-9 Develop/implement street sweeping program	Complete / Ongoing	The City continued implementing its street sweeping program developed during a previous reporting period.	Perform annual street sweeping	DPW	Jul 1, 2017	Jul 1, 2017	The program generally includes sweeping all streets at least once annually, with heavily trafficked roads swept more often.
6-10 Develop/implement catch basin cleaning program	Complete / Ongoing	The City continued implementing its catch basin cleaning program developed during a previous reporting period.	Develop and implement catch basin cleaning and inspection procedures	DPW	Jul 1, 2020	Jul 1, 2017	Catch basin cleaning and other data is documented in an asset management software program. Updates are made continuously based on field information.
6-11 Develop/implement snow management practices	In progress	New Britain has started to document snow management practices.	Develop and implement snow management	DPW	Jul 1, 2018	Jul 1, 2018	Complete program as allowed within fiscal constraints.

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

New Britain will review its existing training program and make changes to address additional permitting requirements pertaining to good housekeeping and IDDE, where applicable.

The catch basin and street sweeping programs will continue to be implemented during the next year, with refinements made as applicable.

Many other items are ongoing, including catch basin cleaning, street sweeping, winter operations, and water quality testing.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	
Street sweeping	
Curb miles swept	
Volume (or mass) of material collected	
Catch basin cleaning	
Total catch basins in priority areas	
Total catch basins in MS4	3,590
Catch basins inspected	131
Catch basins cleaned	131
Volume (or mass) of material removed from all catch basins	8,400 cubic feet
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	
Type(s) of deicing equipment used	
Lane-miles treated	
Snow disposal location	
Staff training provided on application methods & equipment	
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	32%
Reduction in turf area (since start of permit)	11.44 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program.
None to date.

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.

To be determined.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.

To be determined.

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.

To be determined.

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. [This data is available on the MS4 map viewer: http://s.uconn.edu/ctms4map](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.

The City conducted extensive dry weather sampling throughout 2017 on all known and accessible outfalls. Results are provided in Section 2.1 below. Approximately 10% of outfalls could not be located or accessed for a variety of reasons, including being located on private property, within railroad right-of-way, or were otherwise buried. The City is currently working with other property owners to attempt to locate and inspect these outfalls according to the permit schedule. Additionally, the City has performed wet weather sampling as time and budget allows on those outfalls where follow-up is required.

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

2.1 Screening data collected under 2017 permit

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

Outfall ID	Date	Parameter of Concern	Results	Name of Laboratory	Follow-Up Required?
1	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3	11/2/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3A	11/2/2016	Bacteria	E. coli - 1520 MPN/100 ml Phosphorus - 0.45 mg/l	Phoenix Environmental Laboratories	Yes
4	11/14/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
5	11/2/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
7	11/4/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
8	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
9	11/4/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
10	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
11	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
12	11/1/2016	Bacteria	E. coli - 450 MPN/100 ml Phosphorus - 0.747 mg/l	Phoenix Environmental Laboratories	Yes
13	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
14	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
16	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
17	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
18	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
19	11/17/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No

[illegible]

Outfall ID	Date	Parameter of Concern	Results	Name of Laboratory	Follow-Up Required?
1077	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1079	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1162	11/17/2016	Bacteria	Sewage smell - no sample	Phoenix Environmental Laboratories	Yes
1551	11/4/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
1563	11/4/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
1564	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1572	11/4/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1596	11/1/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
1636	10/26/2016	Bacteria	E. coli - 1330 MPN/100 ml	Phoenix Environmental Laboratories	Yes
1701	11/14/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1780	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1787	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1809	11/17/2016	Bacteria	E. coli - >24,200 MPN/100 ml Nitrogen - 2.86 mg/l Phosphorus - 0.703 mg/l	Phoenix Environmental Laboratories	Yes
1868	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1868A	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1868B	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1992	11/14/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
1993	11/14/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
1994	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2133	11/2/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2149	11/3/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
2188	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2188A	10/26/2016	Bacteria	E. coli - 529 MPN/100 ml	Phoenix Environmental Laboratories	Yes
2242	11/2/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
2403	11/1/2016	Bacteria	E. coli - 933 MPN/100 ml Nitrogen - 2.62 mg/l	Phoenix Environmental Laboratories	Yes
2467	11/17/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2551	11/2/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
2575	11/2/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2578	11/2/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2602	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2783	11/8/2016	Phosphorus/Nitrogen	No sign of dry weather flow	Phoenix Environmental Laboratories	No
2852	11/7/2016	Bacteria	E. coli - 1,410 MPN/100 ml Nitrogen - 2.59 mg/l	Phoenix Environmental Laboratories	Yes
2857	11/14/2016	Bacteria	E. coli - >24,200 MPN/100 ml Nitrogen - 25.8 mg/l Phosphorus - 4.09 mg/l	Phoenix Environmental Laboratories	Yes
2868	11/3/2016	Bacteria	E. coli - >24,200 MPN/100 ml Nitrogen - 6.72 mg/l Phosphorus - 0.636 mg/l	Phoenix Environmental Laboratories	Yes
2996	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3005	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3006	11/9/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3007	11/11/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3008	11/11/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3009	11/11/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
3010	11/17/2016	Bacteria	E. coli - 473 MPN/100 ml	Phoenix Environmental Laboratories	Yes
3038	11/14/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3104	-	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3172	11/4/2016	Bacteria	E. coli - >24,200 MPN/100 ml Nitrogen - 6.25 mg/l	Phoenix Environmental Laboratories	Yes

Outfall ID	Date	Parameter of Concern	Results	Name of Laboratory	Follow-Up Required?
3176	11/4/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3182	11/11/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3185	11/11/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3188	11/11/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3190	11/17/2016	Bacteria	Flow insufficient for sampling	Phoenix Environmental Laboratories	Yes
3190A	11/17/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3192	11/14/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3194	11/17/2016	Bacteria	E. coli - 2,610 MPN/100 ml Nitrogen - 3.52 mg/l	Phoenix Environmental Laboratories	Yes
3194A	11/17/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3200	11/11/2016	Bacteria	Nitrogen - 3.92 mg/l	Phoenix Environmental Laboratories	Yes
3202	11/17/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3204	11/11/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3206	11/11/2016	Bacteria	E. coli - 11,200 MPN/100 ml	Phoenix Environmental Laboratories	Yes
3208	11/14/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
3238	11/17/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3240	11/1/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
3242	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3242A	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3242B	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3246	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3246A	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3246B	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3246C	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3246D	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
3246E	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5000	10/26/2016	Bacteria	No pollutants of concern	Phoenix Environmental Laboratories	No
5001	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5002	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5003	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5004	10/26/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5005	11/1/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5006	11/17/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5007	11/3/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5008	11/3/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5011	11/3/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5012	11/14/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5013	11/9/2016	Bacteria	No sign of dry weather flow but sewage odor present	Phoenix Environmental Laboratories	Yes
5014	11/4/2016	Bacteria	No sign of dry weather flow but sewage odor present	Phoenix Environmental Laboratories	Yes
5025	11/17/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No
5026	11/11/2016	Bacteria	No sign of dry weather flow	Phoenix Environmental Laboratories	No

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

Follow-up investigations of the applicable outfalls listed in Part II, Section 2.1 above are ongoing.

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, 6 of the highest contributors of pollutants of concern will be identified. The City will begin monitoring these outfalls on an annual basis on July 1, 2020.

[illegible]

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).

Outfall ID	Receiving Water	Category (Priority)	Rank
1	Willow Brook	High	3
2	Willow Brook	High	3
3 (3A?)	Willow Brook	Excluded	0
4	Willow Brook	High	9
5	Willow Brook	Excluded	0
6	Willow Brook	High	3
7	Willow Brook	High	3
8	Willow Brook	High	3
9	Willow Brook	High	4
10	Willow Brook	High	3
11	Willow Brook	High	3
12	Willow Brook	High	4
13	Willow Brook	High	3
14	Willow Brook	High	4
16	Willow Brook	High	4
17	Willow Brook	Excluded	0
18	Willow Brook	Excluded	0
19	Willow Brook	High	4
20	Willow Brook	High	3
21	Willow Brook	High	3
22	Willow Brook	Problem	4
23	Willow Brook	High	3
25	Willow Brook	High	3
26	Willow Brook	High	3
27	Willow Brook	High	3
28	Willow Brook	High	3

Outfall ID	Receiving Water	Category (Priority)	Rank
29	Willow Brook	High	3
30	Willow Brook	High	3
31	Bass Brook	High	2
32	Willow Brook	Problem	7
33	Willow Brook	High	4
34	Webster Brook	High	3
35	Webster Brook	High	3
36	Webster Brook	High	3
37	Webster Brook	High	3
38	Webster Brook	High	5
39	Webster Brook	High	3
40	Piper Brook	High	2
42	Piper Brook	High	2
43	Piper Brook	High	2
44	Piper Brook	Problem	3
45	Piper Brook	High	2
46	Piper Brook	Problem	8
47	Piper Brook	High	2
48	Piper Brook	High	2
49	Piper Brook	High	2
50	Webster Brook	High	3
51	Webster Brook	High	3
52	Webster Brook	High	3
53	Webster Brook	High	3
54	Webster Brook	High	3
54A	Webster Brook	High	3

Outfall ID	Receiving Water	Category (Priority)	Rank
55	Webster Brook	High	3
56	Webster Brook	High	3
57	Webster Brook	High	3
58	Webster Brook	High	3
59	Bass Brook	High	2
60	Bass Brook	High	2
61	Willow Brook	Excluded	0
62	Willow Brook	Excluded	0
63	Willow Brook	Excluded	0
64	Willow Brook	Excluded	0
65	Willow Brook	Excluded	0
66	Willow Brook	Excluded	0
67	Willow Brook	High	3
68	Willow Brook	High	4
69	Willow Brook	High	4
70	Willow Brook	High	3
71	Willow Brook	High	3
72	Willow Brook	High	3
73	Willow Brook	High	3
73A	Willow Brook	High	3
74	Willow Brook	High	3
75	Willow Brook	High	3
77	Quinnipiac River	High	3
78	Webster Brook	High	3
79	Webster Brook	High	4
80	Webster Brook	High	3
81	Webster Brook	High	3
82	Webster Brook	High	3
83	Bass Brook	High	2
84	Bass Brook	High	2
85	Bass Brook	High	2
86	Bass Brook	High	3
87	Bass Brook	High	3
88	Bass Brook	High	3

Outfall ID	Receiving Water	Category (Priority)	Rank
89	Bass Brook	High	2
90	Bass Brook	Problem	2
91	Bass Brook	High	3
92	Bass Brook	Excluded	0
93	Bass Brook	Excluded	0
94	Bass Brook	Excluded	0
95	Bass Brook	High	2
96	Bass Brook	High	2
97	Bass Brook	High	2
98	Bass Brook	High	2
99	Bass Brook	High	2
100A	Bass Brook	High	4
100B	Bass Brook	High	3
100C	Bass Brook	High	3
100D	Bass Brook	High	4
101	Bass Brook	High	2
102	Bass Brook	High	2
103	Bass Brook	High	2
104	Bass Brook	High	2
105	Bass Brook	High	2
106		Excluded	0
108	Bass Brook	High	2
109	Bass Brook	High	2
110	Bass Brook	High	2
111	Bass Brook	High	2
112	Bass Brook	High	2
113	Bass Brook	High	3
114	Quinnipiac River	High	3
115	Bass Brook	High	2
116	Willow Brook	High	3
117	Bass Brook	Excluded	0
118	Bass Brook	Excluded	0
119	Bass Brook	High	3
120	Bass Brook	Excluded	0

Outfall ID	Receiving Water	Category (Priority)	Rank
121	Bass Brook	Excluded	0
122	Bass Brook	High	2
123	Bass Brook	High	2
124	Bass Brook	High	2
125	Bass Brook	High	2
126	Bass Brook	High	2
127	Bass Brook	High	2
128	Bass Brook	High	2
234	Bass Brook	High	2
264	Bass Brook	High	2
290	Bass Brook	High	3
293	Bass Brook	High	2
297	Bass Brook	High	2
315	Bass Brook	High	1
338	Bass Brook	Problem	6
437	Bass Brook	High	2
579	Bass Brook	Low	0
734	Quinnipiac River	High	3
742	Quinnipiac River	High	3
743	Quinnipiac River	High	4
753	Quinnipiac River	High	3
962	Bass Brook	High	2
1003	Webster Brook	High	3
1077	Piper Brook	High	3
1079	Piper Brook	High	2
1162	Piper Brook	Problem	3
1177	Bass Brook	High	3
1214	Bass Brook	High	2
1219	Bass Brook	High	1
1223	Bass Brook	High	1
1238	Bass Brook	Low	0
1551	Willow Brook	High	3
1563	Willow Brook	High	3
1564	Willow Brook	High	3

Outfall ID	Receiving Water	Category (Priority)	Rank
1572	Willow Brook	High	3
1596	Willow Brook	High	4
1636	Willow Brook	High	3
1701	Willow Brook	High	3
1780	Willow Brook	High	4
1787	Willow Brook	High	4
1809	Willow Brook	Problem	5
1868	Webster Brook	High	3
1868A	Webster Brook	High	3
1868B	Webster Brook	High	3
1983	Webster Brook	High	4
1992	Webster Brook	High	2
1993	Webster Brook	Problem	4
1994	Webster Brook	High	4
2012	Bass Brook	Problem	5
2132	Willow Brook	Problem	7
2133	Willow Brook	High	4
2149	Webster Brook	High	4
2188	Willow Brook	High	4
2188A	Willow Brook	High	5
2242	Willow Brook	High	3
2403	Willow Brook	High	5
2467	Willow Brook	High	3
2551	Webster Brook	High	4
2575	Willow Brook	High	4
2578	Willow Brook	High	4
2589	Willow Brook	High	3
2592	Willow Brook	High	3
2602	Willow Brook	High	3
2728	Piper Brook	High	2
2783	Batterson Park Pond	High	3
2786	Bass Brook	High	2
2789	Bass Brook	High	2
2790	Bass Brook	High	4

Outfall ID	Receiving Water	Category (Priority)	Rank
2790A	Bass Brook	High	4
2792	Bass Brook	High	1
2793	Bass Brook	High	2
2817	Bass Brook	High	2
2837	Bass Brook	High	1
2852	Piper Brook	High	5
2857	Piper Brook	Problem	5
2859	Piper Brook	High	4
2868	Piper Brook	Problem	8
2989	Quinnipiac River	High	7
2996	Quinnipiac River	High	4
3001	Bass Brook	Excluded	0
3002	Bass Brook	Excluded	0
3003	Bass Brook	High	2
3004	Bass Brook	High	2
3005	Willow Brook	Excluded	0
3006	Willow Brook	Excluded	0
3007	Willow Brook	High	3
3008	Willow Brook	High	3
3009	Willow Brook	High	3
3038	Piper Brook	High	2
3047	Bass Brook	High	4
3052	Quinnipiac River	High	3
3054	Bass Brook	High	2
3076	Bass Brook	High	2
3079	Bass Brook	High	1
3104	Webster Brook	Problem	4
3151	Bass Brook	High	1
3153	Bass Brook	High	1
3156	Bass Brook	High	2
3156A	Bass Brook	High	2
3156B	Bass Brook	High	2
3158	Bass Brook	High	2
3158A	Bass Brook	High	2

Outfall ID	Receiving Water	Category (Priority)	Rank
3160	Bass Brook	High	3
3161	Bass Brook	Problem	4
3164	Bass Brook	High	2
3166	Bass Brook	High	2
3172	Quinnipiac River	Problem	4
3176	Quinnipiac River	High	4
3182	Willow Brook	High	3
3185	Willow Brook	High	3
3186	Willow Brook	High	3
3188	Willow Brook	High	3
3190	Willow Brook	High	2
3190A	Willow Brook	High	3
3192	Willow Brook	High	1
3192A	Willow Brook	High	1
3194	Willow Brook	High	4
3194A	Willow Brook	High	3
3196	Willow Brook	High	3
3196A	Willow Brook	High	3
3198	Willow Brook	High	3
3198A	Willow Brook	High	4
3200	Willow Brook	High	3
3202	Willow Brook	High	3
3204	Willow Brook	High	3
3206	Willow Brook	High	4
3208	Willow Brook	High	3
3210	Bass Brook	High	1
3212	Bass Brook	High	2
3214	Bass Brook	High	2
3218	Bass Brook	Low	0
3220	Bass Brook	Problem	3
3224	Bass Brook	High	2
3226	Bass Brook	High	2
3228	Webster Brook	High	3
3230	Webster Brook	High	3

Outfall ID	Receiving Water	Category (Priority)	Rank
3234	Willow Brook	High	4
3236	Willow Brook	High	5
3238	Willow Brook	High	4
3240	Willow Brook	High	3
3242	Willow Brook	High	3
3242A	Willow Brook	High	3
3242B	Willow Brook	High	3
3244	Willow Brook	High	3
3246	Willow Brook	High	1
3246A	Willow Brook	High	3
3246B	Willow Brook	High	3
3246C	Willow Brook	High	3
3246D	Willow Brook	High	3
3246E	Willow Brook	High	3
5000	Willow Brook	High	3
5001	Willow Brook	High	3
5002	Willow Brook	High	3
5003	Willow Brook	High	3
5004	Willow Brook	High	3
5005	Willow Brook	High	3

Outfall ID	Receiving Water	Category (Priority)	Rank
5006	Willow Brook	High	4
5007	Webster Brook	High	3
5008	Webster Brook	High	4
5009	Piper Brook	Problem	4
5010	Piper Brook	High	2
5011	Piper Brook	High	2
5012	Quinnipiac River	High	3
5013	Piper Brook	Problem	3
5014	Piper Brook	Problem	3
5016	Bass Brook	High	2
5017	Bass Brook	High	2
5018	Bass Brook	High	2
5019	Bass Brook	High	1
5020	Bass Brook	High	1
5021	Bass Brook	High	3
5022	Bass Brook	High	3
5023	Bass Brook	High	3
5024	Bass Brook	High	1
5025	Piper Brook	High	2
5026	Willow Brook	High	3
10005	Bass Brook	High	3

Note that in the “Rank” column above, a higher number means an outfall ranks higher within each particular “Category”. The number relates to the quantity of DEEP screening factors applicable to each catchment.

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 ID	Date	Temperature (deg C)	Conductivity (uS/cm)	Salinity (ppt)	Chlorine (mg/L)	Ammonia (mg/L)	Surfactants (mg/L)	E. Coli (MPN/100 ml)	Pollutant of Concern	If required, follow-up actions taken
3A	11/2/2016	12.5	422.4	0.3	0	1	0.25	1,520	Bacteria	
4	11/14/2016	11.2	735	0.5	0	0.2	0.25	10	Bacteria	
12	11/1/2016	10.3	221.4	0.1	0.15	0.2	0.75	450	Bacteria	
19	11/17/2016	13.8	260	0.2	0	0.05	0.125	<10	Bacteria	No
22	10/26/2016	-	-	-	-	-	-	-	Bacteria	Flow not significant enough to obtain sample but sewage/toilet paper floatables present. Perform additional dry weather screening and sampling in 2019.
27	11/4/2016	14.6	335.2	0.2	0.05	0.1	0	<10	Bacteria	No
44	11/4/2016	-	-	-	-	-	-	-	Bacteria	Flow inaccessible; could not obtain sample but sewage odor was observed along with brown color. Perform additional dry weather screening and sampling in 2019.
46	11/11/2016	-	-	-	-	-	-	-	Bacteria	Flow inaccessible; could not obtain sample but sewage odor was observed. Perform additional dry weather screening and sampling in 2019.
73	10/26/2016	-	-	-	-	-	-	<10	Bacteria	No
90	11/9/2016	14.5	372.5	0.2	0	7	1	-	n/a	
91	11/14/2016	11.3	342	0.2	0	0	0.125	-	n/a	
125	11/8/2016							-	n/a	No
338	11/14/2016	15	483	0.3	0	2	0.25	-	n/a	

Outfall ID	Date	Temperature (deg C)	Conductivity (uS/cm)	Salinity (ppt)	Chlorine (mg/L)	Ammonia (mg/L)	Surfactants (mg/L)	E. Coli (MPN/100 ml)	Pollutant of Concern	If required, follow-up actions taken
1162	11/17/2016	-	-	-	-	-	-	-	Bacteria	Flow inaccessible; could not obtain sample but sewage odor was observed. Perform additional dry weather screening and sampling in 2019.
1177	11/14/2016	14.1	320	0.2	0.2	0.2	0.125	-	n/a	
1551	11/4/2016	14.8	216.8	0.1	0.15	0	0.125	<10	Bacteria	No
1563	11/4/2016	-	-	-	-	-	0	-	Bacteria	No sample obtained. Perform additional dry weather screening and sampling in 2019 to address pollutant concerns.
1596	11/1/2016	37.8	39.6	0	0.3	0.15	2	<10	Bacteria	No
1636	10/26/2016	26.9	242.5	0.1	0	0.35	0.25	1,330	Bacteria	
1809	11/17/2016	13.3	98.1	0.1	0	2.5	1.5	>24,200	Bacteria	
1993	11/14/2016	17.5	630	0.4	0	0.05	0	122	Bacteria	
2012	11/17/2016	14	370	0.2	0	0	0.125	-	n/a	
2149	11/3/2016	15.8	928	0.6	0	0.15	0.25	75	Bacteria	
2242	11/2/2016	41.5	44.1	0	0.25	0	0.125	<10	Bacteria	No
2403	11/1/2016	15.4	633	0.4	0.05	0	0.125	933	Bacteria	
2551	11/2/2016	15.7	357	0.2	0.1	0.1	0.125	131	Bacteria	
2789	11/7/2016	12.1	568	0.4	0	0	0.125	-	n/a	
2790	11/17/2016	11	320.5	0.2	0	0.125	0.125	-	n/a	
2852	11/7/2016	12.1	198.9	0.1	0	0	0.125	1,410	Bacteria	
2857	11/14/2016	15.8	448	0.3	0	10	3	>24,200	Bacteria	Collected sample at upstream manhole. Verified this is storm line. 100% positive this has sewage flowing through it
2868	11/3/2016	17.6	361	0.2	0	6.5	0.5	>24,200	Bacteria	Strong sewer smell
3009	11/11/2016	13.9	166.2	0.1	0.15		0	<10	Bacteria	No

Outfall ID	Date	Temperature (deg C)	Conductivity (uS/cm)	Salinity (ppt)	Chlorine (mg/L)	Ammonia (mg/L)	Surfactants (mg/L)	E. Coli (MPN/100 ml)	Pollutant of Concern	If required, follow-up actions taken
3010	11/17/2016	13.7	805	0.5	0.15	0.25	0.125	473	Bacteria	
3047	11/14/2016	14.6	695	0.4	0	0	0.125	-	n/a	
3161	11/17/2016	10.5	403	0.3	0	0.1	0.125	-	n/a	
3172	11/4/2016	13.3	523	0.3	0	1	0.25	>24,200	Bacteria	
3190	11/17/2016	-	-	-	-	-	-	-	Bacteria	No sample obtained. Perform additional dry weather screening and sampling in 2019 to address pollutant concerns.
3194	11/17/2016	14	365.6	0.2	0.05	0.1	3	2,610	Bacteria	
3200	11/11/2016	14.6	431.2	0.1	0	0.4	0.125	135	Bacteria	
3206	11/11/2016	11.9	314	0.2	0	0	0.125	11,200	Bacteria	
3208	11/14/2016	12.7	350	0.2	0.15	0	0	145	Bacteria	
3220	11/17/2016	-	-	-	-	-	-	-	n/a	Could not without sandbag
3240	11/1/2016	9.3	133.2	0.1	0	0	0.125	-	Bacteria	No bacteria sample obtained. Perform dry weather screening and sampling in 2019 to address pollutant concerns.
5000	10/26/2016	21.8	126.1	0.1	0.05	0.1	0.125	10	Bacteria	
5008	11/2/2016	57.4	134.7	0	0	0.5	0.125	-	Bacteria	No bacteria sample obtained. Perform additional dry weather screening and sampling in 2019 to address pollutant concerns.
5009	11/3/2016	17.8	2750	1.7	0	0.2	0.25	-	n/a	
5016	11/7/2016	13.4	544	0.3	0.05	0.05	0.125	-	n/a	
5020	11/8/2016	13.3	466	0.3	0	0	0	-	n/a	
5022	11/17/2016	13.9	602	0.4	0	0	0.125	-	n/a	
5023	11/11/2016	15.1	478	0.3	0	0.2	0.125	-	n/a	
100A	11/11/2016	13.2	900	0.6	0.05	0	0.125	-	n/a	

Outfall ID	Date	Temperature (deg C)	Conductivity (uS/cm)	Salinity (ppt)	Chlorine (mg/L)	Ammonia (mg/L)	Surfactants (mg/L)	E. Coli (MPN/100 ml)	Pollutant of Concern	If required, follow-up actions taken
100C	11/11/2016	14.1	455	0.3	0.1	0	0	-	n/a	
100D	11/11/2016	12.6	410.8	0.3	0.1	0.4	0	-	n/a	
2790a	11/17/2016	9.4	312.1	0.2	0	0.2	0.125	-	n/a	
3156B	11/8/2016	-	-	-	-	-	-	-	n/a	No sample obtained. Perform dry weather sampling in 2019 to complete investigation.
3161a	11/17/2016	10.5	424	0.3	0	0.1	0.12	-	n/a	No bacteria sample obtained but sewage odor was observed. Perform additional dry weather screening and sampling in 2019.
3198A	10/26/2016	14	433	0.3	0.05	0.4	1.25	-	n/a	

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 (mg/L)	Chlorine (mg/L)	Conductivity (uS/cm)	Salinity (ppt)	pH	E.Coli (cfu/100mL)
16	5/5/2017	0.25	0	36	0.02	-	281
17	5/5/2017	0.6	0	51	0.03	-	75
19	5/5/2017	0	0	368	0.24	-	<10
73	5/5/2017	0	0	172	0.1	-	31
75	5/5/2017	0	0	324	0.21	-	10
1701	5/5/2017	0.5	0	78	0.05	-	24200
1780	5/5/2017	0.25	0	1339	0.96	-	4610
1787	5/5/2017	0.5	0	76	0.05	-	5480
1809	5/5/2017	0.6	0	277	0.08	-	5790
3192	5/5/2017	0.125	0	191	0.12	-	8660
3194	5/5/2017	0	0	4.03	0.27	-	121
5000	5/5/2017	0	0	166	0.1	-	<10
5002	5/5/2017	0.25	0	46	0.03	-	4350
5003	5/5/2017	0.25	0	76	0.05	-	2910
3196A	5/5/2017	0.5	0	88	0.5	-	13000
3246D	5/5/2017	0.6	0	198	0.12	-	4610
NEW-1	5/5/2017	0.25	0	136	0.08	-	1780
39	5/25/2017	0	0.05	32	0.01	-	24200
44	5/25/2017	0	0	371	0.18	-	1180
48	5/25/2017	0	0	317	0.15	-	41
50	5/25/2017	0.25	0	8	0	-	<10
51	5/25/2017	0.28	0	22	0.01	-	<10
54	5/25/2017	0.25	0	76	0.03	-	428
55	5/25/2017	0	0	58	0.03	-	323
77	5/25/2017	0	0	-	-	-	10
84	5/25/2017	0	0	105	0.05	-	145
753	5/25/2017	0	0	73	-	-	1310
1551	5/25/2017	0	0	157		-	19900
1992	5/25/2017	0	0	203	0.10	-	24200
1993	5/25/2017	0	0	107	0.05	-	24200
1994	5/25/2017	0.25	0	191	0.09	-	2910
2589	5/25/2017	0	0	34	0.29	-	717
2996	5/25/2017	0.25	-	34	-	-	>24,200
3007	5/25/2017	0.25	0	49	-	-	789
3008	5/25/2017	0.25	0	70	-	-	14100
3038	5/25/2017	0	0	0.69	0.58	-	6130
3104	5/25/2017	0	0	107	0.05	-	24200
3172	5/25/2017	0.25	0	187	-	-	24200
5012	5/25/2017	0	0	14	-	-	3260
5025	5/25/2017	0	0	276	0.13	-	3870
5	6/28/2018	0.25	0	23	0.0	9.0	583
6	6/28/2018	0.25	0	333	0.2	8.3	>24200

Outfall / Interconnection ID	Sample Date	Total Coliform (cfu/100mL)	Surfactants (mg/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Temperature (deg C)	
16	5/5/2017	>24200	0.18	-	-	13.27	
17	5/5/2017	>24200	0.75	-	-	12.94	
19	5/5/2017	862	0.25	-	-	10.94	
73	5/5/2017	1500	0.25	-	-	12.56	
75	5/5/2017	1250	0.25	-	-	11.19	
1701	5/5/2017	>24200	0.25	-	-	12.81	
1780	5/5/2017	>24200	0.125	-	-	9.82	
1787	5/5/2017	>24200	0.3	-	-	12.68	
1809	5/5/2017	>24200	-	2.95	0.258	11.68	
3192	5/5/2017	17300	0.25	-	-	11.92	
3194	5/5/2017	6130	0.25	0.63	0.036	11.14	
5000	5/5/2017	933	0.25	-	-	12.68	
5002	5/5/2017	>24200	0.25	-	-	12.8	
5003	5/5/2017	>24200	0.25	-	-	12.01	
3196A	5/5/2017	>24200	0.75	-	-	13.22	
3246D	5/5/2017	>24200	1	-	-	13.6	
NEW-1	5/5/2017	>24200	0.3	-	-	13.46	
39	5/25/2017	>24200	0.375	-	-	17.4	
44	5/25/2017	>24200	0.125	-	-	12.02	
48	5/25/2017	1940	0	-	-	11.18	
50	5/25/2017	>24200	0.25	-	-	17.1	
51	5/25/2017	959	0.75	-	-	16.9	
54	5/25/2017	>24200	0.75	-	-	16.7	
55	5/25/2017	>24200	0.75	-	-	16.6	
77	5/25/2017	>24200	0.125	-	-	15.58	
84	5/25/2017	>24200	0.125	-	-	15.4	
753	5/25/2017	3650	0.25	-	-	14.8	
1551	5/25/2017	>24200	0.125	-	-	14.63	
1992	5/25/2017	>24200	0.375	-	-	16.7	
1993	5/25/2017	>24200	0.375	1.08	-	17.2	
1994	5/25/2017	>24200	0.625	-	-	16.6	
2589	5/25/2017	>24200	0.125	-	-	17.74	
2996	5/25/2017	>24200	0.25	-	-	15.87	
3007	5/25/2017	>24200	0.625	-	-	16.13	
3008	5/25/2017	>24200	0.5	-	-	15.92	
3038	5/25/2017	>24200	0.375	-	-	16.73	
3104	5/25/2017	>24200	0.375	-	-	17.2	
3172	5/25/2017	>24200	0.375	2.36	-	15.18	
5012	5/25/2017	>24200	0.5	-	-	16.79	
5025	5/25/2017	>24200	0	-	-	12.49	
5	6/28/2018	>24200	0.25	0.43	0.050	23.4	
6	6/28/2018	>24200	1	2.18	0.483	21.5	

Outfall / Interconnection ID	Sample Date	Ammonia (mg/L)	Chlorine (mg/L)	Conductivity (uS/cm)	Salinity (ppt)	pH	E.Coli (cfu/100mL)
8	6/28/2018	0	0	80	0.0	7.2	4880
10	6/28/2018	0.25	0	207	0.1	8.8	13000
27	6/28/2018	0	0	253	0.13	7.44	937
61	6/28/2018	0.5	0	373	265	8.96	121
1563	6/28/2018	0	0	329	0.17	6.88	1780
1564	6/28/2018	0	0	224	0.11	6.81	3260
1572	6/28/2018	0	0	162	0.08	7.75	17300
2242	6/28/2018	0	0	180	0.09	8.89	8160
2403	6/28/2018	0	0	522	0.26	8.27	7270
2602	6/28/2018	0	0	14	0.01	8.83	4350
100A	6/28/2018	0	0	138	0.06	4.37	19900
100B	6/28/2018	0	0	75	70	8.94	17300
100C	6/28/2018	0	0	83	77	8.51	14100
100D	6/28/2018	0	0	85	79	9.64	24200
xxxx	6/28/2018	0	0	189	172	9.50	>24200
4	4/26/2019	0.24	0.05	494	0.24	7.42	3870
9	4/26/2019	0.15	0.07	118	0.06	7.67	>24200
59	4/26/2019	0.22	0.03	427	0.21	7.40	663
60	4/26/2019	0.22	<0.02	280	0.14	7.14	134
112	4/26/2019	0.22	<0.02	315	0.15	7.00	573
113	4/26/2019	0.13	0.04	241	0.12	7.54	30
116	4/26/2019	0.14	<0.02	78	0.04	8.29	211
293	4/26/2019	0.87	<0.02	585	0.03	7.68	9800
338	4/26/2019	0.18	<0.02	578	0.03	7.83	>24200
1214	4/26/2019	0.22	0.03	778	0.39	6.87	471
1219	4/26/2019	0.78	<0.02	148	0.07	6.88	457
1223	4/26/2019	1.24	<0.02	628	0.31	6.92	520
2783	4/26/2019	0.29	<0.02	788	0.43	8.04	>24200
3010	4/26/2019	0.63	<0.02	377	0.18	7.33	1370
3047	4/26/2019	0.18	<0.02	360	0.02	8.02	1250
3076	4/26/2019	<0.10	<0.02	598	0.03	7.90	2910
3238	4/26/2019	1.36	<0.02	507	0.25	7.25	426
5018	4/26/2019	0.09	<0.02	409	0.20	7.07	10
5021	4/26/2019	0.11	<0.02	131	0.01	8.12	10
10005	4/26/2019	0.21	<0.02	1772	0.09	8.50	1600
3198A	4/26/2019	0.32	<0.02	540	0.26	6.46	>24200
12	6/13/2019	0.32	< 0.02	81	0.04	7.38	6130
13	6/13/2019	0.38	< 0.02	48	0.03	6.66	6490
23	6/13/2019	0.1	< 0.02	250	0.09	6.89	960
89	6/13/2019	0.14	0.08	37	0.02	7.94	>24200
90	6/13/2019	0.19	< 0.02	1148	0.57	7.70	74
91	6/13/2019	0.24	0.06	384	0.19	7.45	6130
92	6/13/2019	0.3	< 0.02	48	0.02	6.98	1010
106	6/13/2019	0.15	< 0.02	34	0.02	7.17	465
108	6/13/2019	0.26	< 0.02	996	0.45	8.04	2720
109	6/13/2019	0.6	< 0.02	645	0.42	8.30	2610
110	6/13/2019	0.44	< 0.02	834	0.40	7.97	909

Outfall / Interconnection ID	Sample Date	Total Coliform (cfu/100mL)	Surfactants (mg/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Temperature (deg C)	
8	6/28/2018	>24200	0	0.52	0.089	22.8	
10	6/28/2018	>24200	0	0.97	0.221	21.9	
27	6/28/2018	>24200	0	1.19	0.037	20.9	
61	6/28/2018	>24200	0.75	8.25	15.1	23.7	
1563	6/28/2018	>24200	0	3.81	0.069	23.0	
1564	6/28/2018	>24200	0	5.2	0.095	22.1	
1572	6/28/2018	>24200	0	2.63	0.143	22.1	
2242	6/28/2018	>24200	0	1.71	0.144	22.0	
2403	6/28/2018	>24200	0	2.11	0.059	21.3	
2602	6/28/2018	>24200	0	0.53	0.120	21.4	
100A	6/28/2018	>24200	0	0.97	0.175	22.1	
100B	6/28/2018	>24200	0	1.01	0.190	21.3	
100C	6/28/2018	>24200	0.25	2.42	0.010	21.4	
100D	6/28/2018	>24200	0	1.12	0.162	21.3	
xxxx	6/28/2018	>24200	0	1.3	0.115	20.5	
4	4/26/2019	>24200	0.06	-	-	12.5	
9	4/26/2019	>24200	<0.05	-	-	11.3	
59	4/26/2019	>24200	0.13	-	-	12.6	
60	4/26/2019	>24200	0.28	-	-	12.2	
112	4/26/2019	>24200	0.20	-	-	13.3	
113	4/26/2019	>24200	0.18	-	-	12.9	
116	4/26/2019	17300	0.16	-	-	12.4	
293	4/26/2019	>24200	0.11	-	-	13.9	
338	4/26/2019	>24200	<0.05	-	-	13.7	
1214	4/26/2019	9800	0.15	-	-	13.4	
1219	4/26/2019	>24200	0.16	-	-	13.8	
1223	4/26/2019	17300	0.55	-	-	12.5	
2783	4/26/2019	>24200	0.16	3.77	0.108	12.1	
3010	4/26/2019	>24200	<0.05	-	-	13.0	
3047	4/26/2019	>24200	0.13	-	-	13.5	
3076	4/26/2019	>24200	0.09	-	-	13.5	
3238	4/26/2019	>24200	0.26	-	-	12.8	
5018	4/26/2019	>24200	<0.05	-	-	11.2	
5021	4/26/2019	10	<0.05	-	-	13.1	
10005	4/26/2019	>24200	0.21	-	-	14.1	
3198A	4/26/2019	>24200	0.11	-	-	10.9	
12	6/13/2019	>24,200	0.17	-	-	17.1	
13	6/13/2019	>24,200	0.52	-	-	16.6	
23	6/13/2019	>24,200	0.06	-	-	16.7	
89	6/13/2019	>24,200	0.25	-	-	15.2	
90	6/13/2019	>24,200	0.09	-	-	15.7	
91	6/13/2019	>24,200	0.08	-	-	17.1	>24,200
92	6/13/2019	>24,200	0.26	-	-	17.1	>24,200
106	6/13/2019	>24,200	0.16	-	-	17.7	>24,200
108	6/13/2019	>24,200	0.17	-	-	17.5	>24,200
109	6/13/2019	>24,200	0.27	-	-	17.5	>24,200
110	6/13/2019	>24,200	0.16	-	-	18.1	>24,200

Outfall / Interconnection ID	Sample Date	Ammonia (mg/L)	Chlorine (mg/L)	Conductivity (uS/cm)	Salinity (ppt)	pH	E.Coli (cfu/100mL)
119	6/13/2019	0.14	0.02	500	0.25	7.47	473
121	6/13/2019	0.31	< 0.02	764	0.43	8.36	161
126	6/13/2019	1.29	< 0.02	1656	0.84	7.23	275
128	6/13/2019	0.62	< 0.02	1465	0.73	7.39	75
234	6/13/2019	0.58	< 0.02	461	0.23	7.70	5170
2789	6/13/2019	< 0.05	0.05	1322	0.66	7.67	3260
2868	6/13/2019	0.54	0.03	771	0.39	6.92	8160
3001	6/13/2019	0.2	< 0.02	96	0.05	7.50	1270
3002	6/13/2019	0.27	< 0.02	92	0.05	6.04	565
3005	6/13/2019	0.05	< 0.02	-	-	-	231
3054	6/13/2019	0.41	< 0.02	106	105	6.85	2100
3200	6/13/2019	0.18	0.03	299	0.13	6.81	1290
3202	6/13/2019	0.1	< 0.02	150	0.08	7.51	1550
3204	6/13/2019	0.27	< 0.02	153	0.11	7.40	12000
3206	6/13/2019	0.1	< 0.02	-	-	-	3450
5026	6/13/2019	0.57	< 0.02	271	0.15	7.43	594

Outfall / Interconnection ID	Sample Date	Total Coliform (cfu/100mL)	Surfactants (mg/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Temperature (deg C)	
119	6/13/2019	>24,200	0.21	-	-	14.3	>24,200
121	6/13/2019	>24,200	0.4	-	-	16.3	>24,200
126	6/13/2019	>24,200	0.08	-	-	19.3	>24,200
128	6/13/2019	17300	< 0.05	-	-	19.2	17300
234	6/13/2019	>24,200	0.16	-	-	16.6	>24,200
2789	6/13/2019	>24,200	< 0.05	-	-	15.7	>24,200
2868	6/13/2019	>24,200	0.23	-	-	18.0	>24,200
3001	6/13/2019	>24,200	0.2	-	-	16.5	>24,200
3002	6/13/2019	>24,200	0.19	-	-	16.5	>24,200
3005	6/13/2019	>24,200	0.08	-	-	-	>24,200
3054	6/13/2019	>24,200	0.31	-	-	16.5	>24,200
3200	6/13/2019	>24,200	0.07	-	-	16.8	>24,200
3202	6/13/2019	>24,200	< 0.05	-	-	16.8	>24,200

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
1	Willow Brook	10
2	Willow Brook	10
3	Willow Brook	10
4	Willow Brook	10
5	Willow Brook	10
6	Willow Brook	10
7	Willow Brook	10
8	Willow Brook	10
9	Willow Brook	10
10	Willow Brook	10
11	Willow Brook	10
12	Willow Brook	10
13	Willow Brook	10
14	Willow Brook	10
16	Willow Brook	10
17	Willow Brook	10
18	Willow Brook	10
19	Willow Brook	10
20	Willow Brook	10
21	Willow Brook	10
22	Willow Brook	10
23	Willow Brook	10
25	Willow Brook	10
26	Willow Brook	10
27	Willow Brook	10
28	Willow Brook	10
29	Willow Brook	10
30	Willow Brook	10

Outfall ID	Receiving Water	System Vulnerability Factors
31	Bass Brook	10
32	Willow Brook	1, 10
33	Willow Brook	10
34	Webster Brook	10
35	Webster Brook	10
36	Webster Brook	10
37	Webster Brook	10
38	Webster Brook	10
39	Webster Brook	10
40	Piper Brook	10
42	Piper Brook	10
43	Piper Brook	10
44	Piper Brook	10
45	Piper Brook	10
46	Piper Brook	1, 2, 10
47	Piper Brook	10
48	Piper Brook	10
49	Piper Brook	10
50	Webster Brook	10
51	Webster Brook	10
52	Webster Brook	10
53	Webster Brook	10
54	Webster Brook	10
54A	Webster Brook	10
55	Webster Brook	10
56	Webster Brook	10
57	Webster Brook	10
58	Webster Brook	10

Outfall ID	Receiving Water	System Vulnerability Factors
59	Bass Brook	10
60	Bass Brook	10
61	Willow Brook	10
62	Willow Brook	10
63	Willow Brook	10
64	Willow Brook	10
65	Willow Brook	10
66	Willow Brook	10
67	Willow Brook	10
68	Willow Brook	10
69	Willow Brook	10
70	Willow Brook	10
71	Willow Brook	10
72	Willow Brook	10
73	Willow Brook	10
73A	Willow Brook	10
74	Willow Brook	10
75	Willow Brook	10
77	Quinnipiac River	1, 10
78	Webster Brook	10
79	Webster Brook	10
80	Webster Brook	10
81	Webster Brook	10
82	Webster Brook	10
83	Bass Brook	10
84	Bass Brook	10
85	Bass Brook	10
86	Bass Brook	10
87	Bass Brook	10
88	Bass Brook	10
89	Bass Brook	10
90	Bass Brook	10
91	Bass Brook	10
92	Bass Brook	10

Outfall ID	Receiving Water	System Vulnerability Factors
93	Bass Brook	10
94	Bass Brook	10
95	Bass Brook	10
96	Bass Brook	10
97	Bass Brook	10
98	Bass Brook	10
99	Bass Brook	10
100A	Bass Brook	10
100B	Bass Brook	10
100C	Bass Brook	10
100D	Bass Brook	10
101	Bass Brook	10
102	Bass Brook	10
103	Bass Brook	10
104	Bass Brook	10
105	Bass Brook	10
108	Bass Brook	10
109	Bass Brook	10
110	Bass Brook	10
111	Bass Brook	10
112	Bass Brook	10
113	Bass Brook	10
114	Quinnipiac River	10
115	Bass Brook	10
116	Willow Brook	10
117	Bass Brook	10
118	Bass Brook	10
119	Bass Brook	10
120	Bass Brook	10
121	Bass Brook	10
122	Bass Brook	10
123	Bass Brook	10
124	Bass Brook	10
125	Bass Brook	10

Outfall ID	Receiving Water	System Vulnerability Factors
126	Bass Brook	10
127	Bass Brook	10
128	Bass Brook	10
234	Bass Brook	10
264	Bass Brook	1, 10
290	Bass Brook	10
293	Bass Brook	10
297	Bass Brook	10
315	Bass Brook	10
338	Bass Brook	1, 2, 10
437	Bass Brook	10
734	Quinnipiac River	10
742	Quinnipiac River	10
743	Quinnipiac River	2, 10
753	Quinnipiac River	10
962	Bass Brook	10
1003	Webster Brook	10
1077	Piper Brook	10
1079	Piper Brook	10
1162	Piper Brook	10
1177	Bass Brook	10
1214	Bass Brook	10
1219	Bass Brook	10
1223	Bass Brook	10
1551	Willow Brook	10
1563	Willow Brook	10
1564	Willow Brook	10
1572	Willow Brook	10
1596	Willow Brook	10
1701	Willow Brook	10
1780	Willow Brook	10
1787	Willow Brook	10
1809	Willow Brook	10
1868	Webster Brook	10

Outfall ID	Receiving Water	System Vulnerability Factors
1868A	Webster Brook	10
1868B	Webster Brook	10
1983	Webster Brook	10
1992	Webster Brook	10
1993	Webster Brook	1, 10
1994	Webster Brook	10
2012	Bass Brook	1, 10
2132	Willow Brook	1, 10
2133	Willow Brook	10
2149	Webster Brook	10
2188	Willow Brook	10
2188A	Willow Brook	10
2242	Willow Brook	10
2403	Willow Brook	10
2467	Willow Brook	10
2551	Webster Brook	10
2575	Willow Brook	10
2578	Willow Brook	10
2589	Willow Brook	10
2592	Willow Brook	10
2602	Willow Brook	10
2728	Piper Brook	10
2783	Batterson Park Pond	10
2786	Bass Brook	10
2789	Bass Brook	10
2790	Bass Brook	10
2790A	Bass Brook	10
2792	Bass Brook	10
2793	Bass Brook	10
2817	Bass Brook	10
2837	Bass Brook	10
2852	Piper Brook	1, 10
2857	Piper Brook	10

Outfall ID	Receiving Water	System Vulnerability Factors
2859	Piper Brook	10
2868	Piper Brook	1, 2, 4, 10
2989	Quinnipiac River	10
2996	Quinnipiac River	2, 10
3001	Bass Brook	10
3002	Bass Brook	10
3003	Bass Brook	10
3004	Bass Brook	10
3005	Willow Brook	10
3006	Willow Brook	10
3007	Willow Brook	10
3008	Willow Brook	10
3009	Willow Brook	10
3038	Piper Brook	10
3047	Bass Brook	10
3052	Quinnipiac River	10
3054	Bass Brook	1, 10
3076	Bass Brook	10
3079	Bass Brook	10
3104	Webster Brook	1, 10
3151	Bass Brook	10
3153	Bass Brook	10
3156	Bass Brook	10
3156A	Bass Brook	10
3156B	Bass Brook	10
3158	Bass Brook	10
3158A	Bass Brook	10
3160	Bass Brook	10
3161	Bass Brook	10
3164	Bass Brook	10
3166	Bass Brook	10
3172	Quinnipiac River	10
3176	Quinnipiac River	1, 10
3182	Willow Brook	10

Outfall ID	Receiving Water	System Vulnerability Factors
3185	Willow Brook	10
3186	Willow Brook	10
3188	Willow Brook	10
3190A	Willow Brook	10
3194	Willow Brook	10
3194A	Willow Brook	10
3196	Willow Brook	10
3196A	Willow Brook	10
3198	Willow Brook	10
3198A	Willow Brook	10
3200	Willow Brook	10
3202	Willow Brook	10
3204	Willow Brook	10
3206	Willow Brook	10
3208	Willow Brook	10
3210	Bass Brook	10
3212	Bass Brook	10
3214	Bass Brook	10
3220	Bass Brook	10
3224	Bass Brook	10
3226	Bass Brook	10
3228	Webster Brook	10
3230	Webster Brook	10
3234	Willow Brook	10
3236	Willow Brook	10
3238	Willow Brook	10
3240	Willow Brook	10
3242	Willow Brook	10
3242A	Willow Brook	10
3242B	Willow Brook	10
3244	Willow Brook	10
3246A	Willow Brook	10
3246B	Willow Brook	10
3246C	Willow Brook	10

Outfall ID	Receiving Water	System Vulnerability Factors
3246D	Willow Brook	10
3246E	Willow Brook	10
5000	Willow Brook	10
5001	Willow Brook	10
5002	Willow Brook	10
5003	Willow Brook	10
5004	Willow Brook	10
5005	Willow Brook	10
5006	Willow Brook	10
5007	Webster Brook	10
5008	Webster Brook	10
5009	Piper Brook	10
5010	Piper Brook	10
5011	Piper Brook	10
5012	Quinnipiac River	10

Outfall ID	Receiving Water	System Vulnerability Factors
5013	Piper Brook	10
5014	Piper Brook	10
5016	Bass Brook	10
5017	Bass Brook	10
5018	Bass Brook	10
5019	Bass Brook	10
5020	Bass Brook	10
5021	Bass Brook	10
5022	Bass Brook	10
5023	Bass Brook	10
5024	Bass Brook	10
5025	Piper Brook	10
5026	Willow Brook	10
10005	Bass Brook	10

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

N/A, none performed to date.

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

N/A, the City has not yet started formal catchment investigations, however illicit discharge investigations are ongoing.

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed
80 Kent Road	House	Cross connection between storm and sanitary laterals	Dye testing	5/9/18		Required removal	Unknown
98 Newington Avenue	House	Sanitary sewer connection		2019		Required removal	Unknown

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

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Erin E. Stewart 3/23/2020

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