Year 5 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2022-June 30, 2023

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form. Also ensure any websites included on this form are to publicly accessible sites

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2022 and June 30, 2023 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: City of Fitchburg

EPA NPDES Permit Number: MAR041189

Primary MS4 Program Manager Contact Information

Name: Nicholas Erickson, PE Title: Commissioner of Public Works

Street Address Line 1: Fitchburg DPW

Street Address Line 2: 301 Broad Street

City: Fitchburg State: MA Zip Code: 02140

Email: nerickson@fitchburgma.gov Phone Number: (978) 829-1905

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): https://www.fitchburgma.gov/463/Stormwater-Management-Program

Date SWMP was Last Updated: September 2023

If the SWMP is not available on the web please provide the physical address:

Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state

Impairment(s)

- [x] Bacteria/Pathogens
- [ ] Chloride
- [ ] Nitrogen
- [x] Phosphorus
- [ ] Solids/ Oil/ Grease (Hydrocarbons)/ Metals

TMDL(s)

In State:

- [ ] Assabet River Phosphorus
- [ ] Bacteria and Pathogen
- [ ] Cape Cod Nitrogen
- [ ] Charles River Watershed Phosphorus
- [ ] Lake and Pond Phosphorus

Out of State:

- [ ] Bacteria/Pathogens
- [ ] Metals
- [ ] Nitrogen
- [ ] Phosphorus

Clear Impairments and TMDLs

Next, check off all requirements below that have been completed. ***By checking each box you are certifying that you have completed that permit requirement fully.*** *If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.*

Annual Requirements

- [x] Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- [x] Kept records relating to the permit available for 5 years and made available to the public
- [x] The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
  - ( ) This is not applicable because we do not have sanitary sewer
  - ( ) This is not applicable because we did not find any new SSOs
  - (•) The updated SSO inventory is attached to the email submission
  - ( ) The updated SSO inventory can be found at the following publicly available website:

    The SSO inventory can also be found on the City's Stormwater Webpage.
- [x] Updated system map due in year 2 as necessary
- [x] Provided training to employees involved in IDDE program within the reporting period
- [x] Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- [x] All curbed roadways were swept at least once within the reporting period
- [x] Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- [x] Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities

- [x] Updated inventory of all permittee owned facilities as necessary
- [x] O&M programs for all permittee owned facilities have been completed and updated as necessary
- [x] Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- [x] Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- [x] Inspected all permittee owned treatment structures (excluding catch basins)

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

- [x] Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- [x] Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- [x] Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria
    - [ ] This is not applicable because there are no septic systems present

** Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

- [x] Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers
- [x] Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- [x] Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

** Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

☒ Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)

Structural BMPs

☒ Completed the evaluation of all permittee owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under permit part 2.3.6.d or identified in the Phosphorus Source Identification Report, including: *(select the items of the evaluation that have been completed below)*

- ☒ Next planned infrastructure, resurfacing, or redevelopment activity planned for the property (if applicable) OR planned retrofit date
- ☐ Estimated cost of redevelopment or retrofit BMPs
- ☐ Engineering and regulatory feasibility of redevelopment or retrofit BMPs

☒ Completed a listing of planned structural BMPs and a plan and schedule for implementation

- ◉ The BMP list and implementation schedule is attached to the email submission
- ○ The BMP list and implementation schedule can be found at the following publicly available website:

☒ Any structural BMPs already existing or installed in the regulated area by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated phosphorus removed in mass per year by the BMP were documented.

- ○ No BMPs were installed
- ◉ The above referenced BMP information is attached to the email submission
- ○ The above referenced BMP information can be found at the following publicly available website:

Total estimated phosphorus removed in **lbs/year** from the installed BMPs: 12.56

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

The City's Phosphorus Source Identification Report includes a list of BMPs the City will consider as well as potential concepts for the first five sites.

Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

- ○ Yes
- ◉ No

If yes, describe below, including any relevant impairments or TMDLs:

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education

Number of educational messages completed **during this reporting period**: 6

*Below, report on the educational messages completed **during this reporting period**. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.*

BMP: Stormwater Pollution Prevention for Industrial Sites Fact Sheet

Message Description and Distribution Method:

Stormwater Pollution Prevention for Industrial Sites Fact Sheet was posted to Town's Stormwater webpage to promote good industrial pollution prevention practices and procedures.

Targeted Audience: Industrial facilities

Responsible Department/Parties: DPW Engineering

Measurable Goal(s):

Number of webpage views...

Message Date(s): September 28, 2022

Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐

Was this message different than what was proposed in your NOI? Yes ○ No ◉

If yes, describe why the change was made:

BMP: Grease Disposal Social Media Post

Message Description and Distribution Method:

A grease disposal social media infographic was posted to the Town's Facebook page to educate on the impact of grease on pipes and how to properly dispose of it.

Targeted Audience: Residents and Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Engineering

Measurable Goal(s):

Number of social media impressions ...

Message Date(s): June 28, 2023

Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☒

Was this message different than what was proposed in your NOI? Yes ○ No ◉

If yes, describe why the change was made:

BMP: Pet Waste Social Media Post

Message Description and Distribution Method:

A pet waste social media infographic was posted to the Town's Facebook page to educate on the environmental impact of improperly disposed pet waste.

Targeted Audience: Residents and Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Engineering

Measurable Goal(s):

Number of social media impressions ...

Message Date(s): June 28, 2023

Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☒

Was this message different than what was proposed in your NOI? Yes ○ No ◉

If yes, describe why the change was made:

BMP: Household Chemical Disposal Social Media Post

Message Description and Distribution Method:

A household chemical disposal social media infographic was posted to the Town's Facebook page including information on the events the town has for hazardous waste disposal.

Targeted Audience: Residents and Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Engineering

Measurable Goal(s):

Number of social media impressions ...

Message Date(s): June 28, 2023

Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐

Was this message different than what was proposed in your NOI? Yes ○ No ◉

If yes, describe why the change was made:

BMP: Yard Waste Social Media Post

Message Description and Distribution Method:

A yard waste social media infographic was posted to the Town's Facebook page to educate on the environmental impact that grass clippings and yard debris can have when not properly disposed.

Targeted Audience: Residents and Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Engineering

Measurable Goal(s):

Number of social media impressions ...

Message Date(s): June 28, 2023

Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐

Was this message different than what was proposed in your NOI? Yes ○ No ◉

If yes, describe why the change was made:

BMP: Vehicle Fluid Management Social Media Post

Message Description and Distribution Method:

A vehicle fluid management social media infographic was posted to the Town's Facebook page to educate on the environmental impact that vehicle fluid can have on waterways if it enters the stormwater system.

Targeted Audience: Residents and Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Engineering

Measurable Goal(s):

Number of social media impressions ...

Message Date(s): June 28, 2023

Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐

Was this message different than what was proposed in your NOI? Yes ○ No ◉

If yes, describe why the change was made:

Add an Educational Message

MCM2: Public Participation

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period**:

Consistent with the City's approved NOI, the SWMP was posted to the City web page with the public encouraged to submit comments to DPW Engineering.

Was this opportunity different than what was proposed in your NOI? Yes ○ No ◉

Describe any other public involvement or participation opportunities conducted **during this reporting period**:

The City's DPW Engineering Division, DPW Wastewater Division, and Conservation Commission partnered with the "Great American Rain Barrel" Company to facilitate a City-subsidized rain barrel purchase program. This is the sixth consecutive year the city has held the program as an effort to grow "green infrastructure", and this year the City sold (XYZ) barrels during the June 2023 program.

The Stormwater project was also presented and discussed during City council meetings held during the current reporting period.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

☐ This SSO section is NOT applicable because we DO NOT have sanitary sewer

*Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period**.*

Number of SSOs identified: 7

Number of SSOs removed: 7

MS4 System Mapping

Optional: Provide additional status information regarding your map:

Screening of Outfalls/Interconnections

If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.

- (•) No outfalls were inspected
- ( ) The above referenced outfall screening data is attached to the email submission
- ( ) The above referenced outfall screening data can be found at the following publicly available website:

*Below, report on the number of outfalls/interconnections screened **during this reporting period**.*

Number of outfalls screened: 0

*Below, report on the percent of outfalls/interconnections screened **to date**.*

Percent of outfalls screened: 100

Optional: Provide additional information regarding your outfall/interconnection screening:

Catchment Investigations

If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.

- ( ) No catchment investigations were conducted
- (•) The catchment investigation data is attached to the email submission
- ( ) The catchment investigation data can be found at the following publicly available website:

*Below, report on the number of catchment investigations completed **during this reporting period**.*

Number of catchment investigations completed this reporting period: 27

*Below, report on the percent of catchments investigated **to date.***

Percent of total catchments investigated: 11

Optional: Provide any additional information for clarity regarding the catchment investigations below:

There were 25 dry catchment investigations completed and 29 dry catchment investigations are ongoing. Two

wet weather catchment investigations were completed.

IDDE Progress

If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.

- ○ No illicit discharges were found
- ◉ The illicit discharge removal report is attached to the email submission
- ○ The illicit discharge removal report can be found at the following publicly available website:

Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed ***during this reporting period.***

Number of illicit discharges identified: 1

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 gallons/day

Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed ***since the effective date of the permit (July 1, 2018)****.*

Total number of illicit discharges identified: 1

Total number of illicit discharges removed: 0

Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

Two illicit discharges were identified during the current reporting period and have not yet been removed. The City is reviewing ongoing sewer separation work in the area of one illicit discharge to determine if removal will occur as part of that work. The City is also working with the property owner. The City is conducting follow-on dye testing for the potential second illicit discharge. The two illicit discharges identified have not been added to the Illicit Connections Inventory Appendix.

Employee Training

Describe the frequency and type of employee training conducted **during this reporting period**:

Good Housekeeping and IDDE Training video was recorded December 2020 and then distributed accordingly. The Town utilizes the services of a consultant to complete IDDE investigations. Consultant IDDE employee training was hosted on June 14, 2023. Two City of Fitchburg employees attended the consultant IDDE training session.

MCM4: Construction Site Stormwater Runoff Control

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period**.*

Number of site plan reviews completed: 24

Number of inspections completed: 12

Number of enforcement actions taken: 0

Optional: Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

MCM5: Post-Construction Stormwater Management in New Development and Redevelopment

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3): 5/7/2019

Website of ordinance or regulatory mechanism:

As-built Drawings

*Below, report on the number of as-built drawings received **during this reporting period**.*

Number of as-built drawings received: 0

Optional: Enter any additional information relevant to the submission of as-built drawings:

Street Design and Parking Lots Report

Below, describe any changes made or planned to be made to local regulations and guidelines based on the report completed in Year 4:

Green Infrastructure Report

Below, describe progress towards making green infrastructure practices allowable based on the report completed in Year 4:

Retrofit Properties Inventory

Below, list remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (must maintain a minimum of 5 sites in inventory until less than 5 sites remain):

See Appendix A.

Below, list all properties that have been modified or retrofitted with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.d of the permit. Non-MS4 owned properties that have been modified or retrofitted with BMPs to mitigate impervious area may also be listed, but must be indicated as non-MS4.

Forest Hill Cemetery - infiltrating catch basins.

MCM6: Good Housekeeping

Catch Basin Cleaning

Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins ***during this reporting period****.*

Number of catch basins inspected: 3,300

Number of catch basins cleaned: 3,300

Total volume or mass of material removed from all catch basins: 16,000 tons

Below, report on the total number of catch basins in the MS4 system.

Total number of catch basins: 7,000

If applicable:

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

Street Sweeping

*Report on street sweeping completed **during this reporting period** using one of the three metrics below.*

- (•) Number of miles cleaned: 500
- ( ) Volume of material removed: [Select Units]
- ( ) Weight of material removed: [Select Units]

Stormwater Pollution Prevention Plan (SWPPP)

*Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.*

Number of site inspections completed: 0

Describe any corrective actions taken at a facility with a SWPPP:

Additional Information

Monitoring or Study Results

Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.

- (•) Not applicable
- ( ) The results from additional reports or studies are attached to the email submission

○ The results from additional reports or studies can be found at the following publicly available website(s):

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

Additional Information

Optional: Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above. If any of the above year 5 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 6 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected

- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 6 below:

Part V: Certification of Small MS4 Annual Report 2023

40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Title:

Signature: Date:

[Signatory may be a duly authorized representative]

City of Fitchburg, Massachusetts
Massachusetts Small MS4 General Permit
Year 5 Annual Report
Reporting Period: July 1, 2022 – June 30, 2023

Appendix A – BMP List & Implementation Schedule

ARCADIS

Table A-1: Composite Score, Status, and Anticipated Schedule of Municipal Sites from Site Selection Matrix

Site Name	Composite Score	Status	Anticipated Schedule
Goodrich Academy	88	Design in progress	5 to 7 years
Longsjo Middle School	88	Design in progress	5 to 7 years
Babe DiConza Memorial Park	75	Design in progress	5 to 7 years
Goodrich Playground	74	Design in progress	7 to 10 years
Howarth Park	73	Design in progress	7 to 10 years
Rollstone/Laurel Schools	73	Not Started	5 to 7 years
Woods Haven	71	Not Started	5 to 7 years
Former Central Fire Station Lot	70	Not Started	5 to 7 years
Police Station	70	Not Started	7 to 10 years
State Pool	70	Not Started	7 to 10 years
Hosmer School	69	Not Started	7 to 10 years
Central Fire Station	68	Not Started	10 to 15 years
City Hall (New)	68	Not Started	10 to 15 years
Day Street Lot	68	Not Started	10 to 15 years
South Fitch Playground	67	Not Started	10 to 15 years
Caldwell Park	66	Not Started	10 to 15 years
Laurel Hill Cemetery	66	Not Started	15 to 20 years
Marshall PRV Station	66	Not Started	15 to 20 years
Coggshall Park	64	Not Started	15 to 20 years
Forest Hill Cemetery	64	COMPLETE	2022
Memorial Middle School	64	Not Started	15 to 20 years
West Street Cemetery	64	Not Started	20 to 25 years
Falulah Treatment Plant	63	Not Started	20 to 25 years
Forest Park Island	63	Not Started	20 to 25 years
Phillips Playground	63	Not Started	20 to 25 years
Crocker Elementary School	62	Not Started	20 to 25 years
Harwell Cemetery	62	Not Started	25 to 30 years
Senior Center	62	Not Started	25 to 30 years
South Street Elementary School	62	Not Started	25 to 30 years
FLLAC School	61	Not Started	25 to 30 years
Nikitas Field/Parkhill Park	61	Not Started	25 to 30 years
Coolidge Park	60	Not Started	30 to 35 years
Crocker Playground	60	Not Started	30 to 35 years
Main Street Parking Garage	60	Not Started	30 to 35 years
Public Library	60	Not Started	30 to 35 years
Putnam Street Parking Garage	60	Not Started	30 to 35 years
Summer Street Fire Station	60	Not Started	35 to 40 years
Putnam Park Island	58	Not Started	35 to 40 years
Gateway Park	57	Not Started	35 to 40 years
Reingold Elementary School	57	Not Started	35 to 40 years
Daniels Park	56	Not Started	35 to 40 years
Fitchburg High School	55	Not Started	40 to 45 years
Montachusett Industrial Park Pump Station	55	Not Started	40 to 45 years
Green Corners Park	52	Not Started	40 to 45 years
Heritage Park	52	Not Started	40 to 45 years
Lowe Playground	52	Not Started	40 to 45 years
Public Works Complex	52	Not Started	45 to 50 years

South Street Cemetery	52	Not Started	45 to 50 years
Bird Sanctuary	49	Not Started	45 to 50 years
Oak Hill Fire Station	49	Not Started	45 to 50 years
City Hall (Old)	48	Not Started	45 to 50 years
Monument Park	48	Not Started	50 to 55 years
Oak Hill Tank and Controls/Valve Building	48	Not Started	50 to 55 years
Scott Storage Tank and Controls/Valve Building	48	Not Started	50 to 55 years
Brigham Park	47	Not Started	50 to 55 years
East WWTF	46	Not Started	50 to 55 years
Amiot Field	45	Not Started	55 to 60 years
Riverfront Park	44	Not Started	55 to 60 years
Henry P. Dextraze Circle	40	Not Started	55 to 60 years
Lacava Pump Station	40	Not Started	55 to 60 years
Oak Hill Pump Station	40	Not Started	55 to 60 years
Crocker Field	38	Not Started	60 to 65 years
Overlook Storage Tank and Controls/Valve Building	38	Not Started	60 to 65 years
Moran Field	36	Not Started	60 to 65 years
Upper Common	36	Not Started	60 to 65 years
Vacant Parcel	35	Not Started	60 to 65 years
Dean Hill Cemetery	33	Not Started	65 to 70 years
Route 2/Fitchburg City Forest	33	Not Started	65 to 70 years
Sadie Quatrale Park	33	Not Started	65 to 70 years
West Fitchburg Streamline Trail Park	33	Not Started	65 to 70 years
West WWTF	33	Not Started	65 to 70 years
Airport Complex	31	Not Started	70 to 75 years

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Appendix B – Phosphorus Reduction Calculations

ARCADIS

City of Fitchburg, Massachusetts
Municipal Separate Sewer Storm System
Permit Year 5 (7/1/2022 - 6/30/2023)
Structural BMP Phosphorus Reduction

ARCADIS

BMP ID	Address	BMP Type	Design Storage Volume [ft3]	Impervious Treated Area [ac]	Total Treated Area [ac]	Receiving Water	Phosphorus Load [lb/yr]	Phosphorus Reduction Potential* [lb/yr]
BMP1A	48 Parker Hill Drive	Retention Pond	45075	5.59	18.5	North Nashua River MA81-01	9.17	1.27
BMP1B	15 Downy Circle	Detention Pond	23472	1.41	10.6	North Nashua River MA81-01	3.02	0.42
BMP1C	51 Flicker Drive	Infiltration Basin	13440	0.00	0.76	North Nashua River MA81-01	0.05	0.00
BMP2	26 Castle Road	Infiltration Basin	1120	1.22	7.98	North Nashua River MA81-02	2.58	1.69
BMP3	18 Watts Drive	Detention Pond	30960	3.41	9.75	North Nashua River MA81-02	6.23	0.87
BMP4	122 MacIntosh Lane	Retention Pond	49200	1.15	6.75	Townsend Road Pond	2.88	0.40
BMP5	25 Cortland Ave	Detention Pond	36000	2.59	9.36	Townsend Road Pond	5.34	0.75
BMP6	71 Ethier Street	Detention Pond	21270	0.52	4.75	Falulah Brook	1.57	0.22
BMP7	41 Skyview Drive	Detention Pond	10240	0.82	5.02	Falulah Brook	2.23	0.31
BMP8	17 Aimees Way	Detention Pond	17280	1.13	5.40	Falulah Brook MA81-63	3.05	0.43
BMP9	43 Oakland Street	Detention Pond	650	0.54	1.51	Falulah Brook	1.15	0.08
BMP10	20 Montesion Drive	Detention Pond	28720	1.72	6.02	North Nashua River MA81-02	4.39	0.62
BMP11	34 Quarry Lane	Detention Pond	18900	2.32	22.47	North Nashua River MA81-02	8.00	1.12
BMP12	109 Hemlock Drive	Detention Pond	12008	8.08	22.8	Phillips Brook	13.3	1.07
BMP13A	80 Bilotta Way	Detention Pond	6510	0.75	4.02	North Nashua River MA81-01	1.70	0.24
BMP13B	68 Bilotta Way	Detention Pond	15075	1.70	9.12	North Nashua River MA81-01	3.91	0.54
BMP14A	173 Roosevelt Street	Detention Pond	23872	1.20	8.75	North Nashua River MA81-01	2.26	0.32
BMP14B	299 Roosevelt Street	Detention Pond	1440	0.32	1.06	North Nashua River MA81-01	0.51	0.06
BMP15A	176 Victoria Lane	Detention Pond	1096	0.36	1.17	Sawmill Pond	0.77	0.09
BMP15B	20 Victoria Lane	Detention Pond	68400	1.22	3.79	Sawmill Pond	2.35	0.33
BMP15C	12 Victoria Lane	Detention Pond	8900	1.05	5.19	Sawmill Pond	2.33	0.33
BMP16	213 Bishop	Detention Pond	31566	1.46	5.64	North Nashua River MA81-02	2.49	0.35
BMP17	200 Daniels St	Detention Pond	Unknown	Unknown	Unknown			
BMP18	105 Tibbett Circle	Detention Pond	Unknown	3.08	10.84	Monoosnoc Brook	6.10	Unknown
BMP19	112 Goodfellow drive	Detention Pond	10516	1.05	3.91	Monoosnoc Brook	2.05	0.29
BMP20	171 Stonybrook	Detention Pond	45080	2.57	13.5	Saima Pond	5.39	0.76
BMP21	56 Nijal Ct	Detention Pond	Unknown	0.60	7.08	Falulah Brook MA81-63	1.90	Unknown

City of Fitchburg, Massachusetts
Massachusetts Small MS4 General Permit
Year 5 Annual Report
Reporting Period: July 1, 2022 – June 30, 2023

Appendix C – Sanitary Sewer Overflow Events

ARCADIS

City of Fitchburg
Department of Public Works

Cumulative Sanitary Sewer Overflow (SSO) Inventory
2013 - 2023

Year	Location	Location of Discharge	Did SSO Enter Surface Water or MS4	Date Discovered	Time Discovered	Date Stopped	Time Stopped	Estimated Volume (gal)	Description of event with known or suspected causes	Mitigation and Corrective measures
2023	100 Pearl Hill Road	Sanitary sewer manhole to ground surface	Putman Pond	6/11/2023	4:03 PM	6/11/2023	5:30 PM	6000	Sewer system blockage due to root intrusion	Jetted and cut roots. Cleared main line. Root treatment to be added periodically.
	329 Pearl Hill Road	Sanitary sewer manhole to ground surface	Putman Pond	6/10/2023	5:52 PM	6/10/2023	6:30 PM	30000	Sewer system blockage due to root intrusion	Jetted and cut roots. Cleared main line. Root treatment to be added routinely.
	391 Elm Street	Drain culver catch basin	No release to surface water	3/13/2023	1:00 PM	3/13/2023	2:30 PM	4500	Sewer system blockage	Jetted upstream sewer main line to alleviate sewer main blockage.
2022	164 Elm Street	Backup into property basement	No release to surface water	8/9/2022	3:35 PM	8/9/2022	2:00 PM - 3:35 PM	1222	Rain Event caused surcharge of combine sanitary sewer system	Cleaning Service cleaned up impacted area. Area to be seperated with ongoing CSO separation project
	23 Columbia Avenue	Sanitary sewer manhole to ground surface	No release to surface water	8/9/2022	9:00 AM	8/9/2022	9:00 AM	20	Sewer system backup due to grease and rags	Main Line was jetted and cleared of grease and rags
	207 Summer Street	Backup into property basement	No release to surface water	7/27/2022	12:15 PM	7/27/2022	12:35 PM	80	Sewer system backup due to debris	Main Line was jetted and cleared of debris
	115 Swan Avenue	Backup into property basement	No release to surface water	7/8/2022	11:00 AM	7/8/2022	11:00 AM	15	Sewer system backup due to roots.	Main Line was jetted and cleared of roots
	370 Summer Street	Backup into property basement	No release to surface water	4/28/2022	5:00 PM	4/28/2022	6:00 PM	100	Sewer system backup due to roots.	Main Line was jetted and cleared of roots
	135 Intervale Road	Sanitary sewer manhole to catch basin to receiving water	North Nashua River	3/6/2022	6:00 PM	3/7/2022	2:00 PM	60,000	Contractor work for site development, construction debris entered Sewer Manhole causing blockage	On-call contactor by-passed main, jetted main and clearer blockage.
2021	605 Franklin Road	Sanitary sewer manhole to ground surface	No release to surface water	7/22/2021	1:00 PM	7/22/2021	1:30 PM	150	Sewer system backup due to roots	Main line was jetted and cleared of roots
	Railroad Street at First Street	Sanitary sewer manhole to recieveing water	North Nashua River	7/19/2021	8:30 AM	7/17/2021	6:00 PM	--	Discovered dislodge cover	Replaced dislodge cover and tighted the tabs to prevent another incident, New cover with bolt on frame was installed at location.
	569 Main Street	Backup into property basement	No release to surface water	7/19/2021	10:30 AM	7/17/2021	8:00 PM	5,000	Sewer system backup due to rain event and insufficent capacity of system	Cleaning Service cleaned up impacted area
	317 Kimbal Street	Catch basin to catch basin to receiving water	North Nashua River	6/26/2021	6:14 PM	6/26/2021	9:00 PM	5,000	Sewer system backup due to roots	Catch basin and main line was jetted and cleared of roots
	8 George Street	Backup into property basement	No release to surface water	3/1/2021	1:11 PM	3/1/2021	2:05 PM	150	Sewer system backup due obstruction	Main line was jetted and cleared of obstruction
	147 Water Street	Sanitary sewer manhole to catch basin to receiving water	North Nashua River	2/18/2021	11:00 AM	2/11/2021	2:00 PM	4,500	Sewer system backup due to pipe collapse	Main Line was jetted and main line was CCTV, Point repair conducted to replace collapsed pipe.
	34 Ash Street	Sanitary sewer manhole to ground surface	No release to surface water	2/11/2021	8:00 AM	2/11/2021	10:30 AM	15	Sewer system backup due to roots	Manhole and main line was jetted and cleared of roots
	9 Harrison Avenue	Backup into property basement	No release to surface water	2/3/2021	2:00 PM	2/3/2021	3:00 PM	3	Sewer system backup due to roots and rags	Main Line was jetted and cleared of roots and rags
2020	43 Patton Street	Backup into property basement	No release to surface water	6/8/2020	10:00 AM	6/8/2020	10:30 AM	25	Pipe collapse/hole in pipe where the Water Department installed a fire hydrant several years ago.	Jetted line and removed blockage. Repaired pipe on 6/23/20.
	28 Phillips Ave.	Backup into property basement	No release to surface water	5/15/2020	11:00 AM	5/15/2020	12:00 PM	20	Sewer system backup due to rags and accumulated grease.	Jetted line and removed blockage. Rags were removed from the pipe.
	31 Gillis Court	Backup into property basement	No release to surface water	4/14/2020	1:15 PM	4/14/2020	2:00 PM	150	Sewer system blockage due to rags and poorly pitched sanitary sewer lateral connection.	Jetted line and removed blockage. Rags were removed from the pipe along with black grease.
	228 Plymouth Street	Sanitary sewer manhole to catch basin to receiving water	North Nashua River	3/11/2020	3:10 PM	3/11/2020	3:30 PM	30	Sewer system blockage due to rags.	Jetted line and removed blockage. Rags were removed from the pipe along with black water indicating blockage has been forming for quite some time.
	133 Bel Air Drive	Backup into property basement	No release to surface water	3/2/2020	1:00 PM	3/2/2020	2:00 PM	3	Sewer system blockage due to debris in a poorly pitched sanitary sewer lateral connection.	Jetted line three times and removed blockage, grease, and rags. Added manhole to the problem area checklist.
2019	136 Upham Street	Sanitary sewer manhole to ground surface	No release to surface water	12/12/2019	8:41 AM	12/12/2019	9:00 AM	20	Sewer system blockage due to rags hung up on debris from a paving project.	Sucked down liquid in manhole, jetted line, and cleaned entire line 1,000 feet to trunk sewer. Conducted two follow up inspections following the incident to ensure no issues.
	1164 John Fitch Highway	Sanitary sewer manhole to ground surface	Putts Pond	11/14/2019	10:00 AM	11/14/2019	10:30 AM	10,000	Sewer system blockage due to rags and roots in manhole.	Sucked down liquid in manhole, jetted line, and cleared out roots. Added heavy amount of root killer.
	168 Lunenburg Street	Sanitary sewer manhole to ground surface	No release to surface water	10/15/2019	11:00 AM	10/15/2019	11:30 AM	5	Sewer system blockage due to rags and roots in manhole.	Sucked down liquid in manhole, jetted line, and cleared out roots. Root killer will be added until the manhole is replaced next construction season.
	133 Water Street	Catch basin (MS4) to receiving water	North Nashua River	7/12/2019	1:30 PM	7/12/2019	2:15 PM	60-80	Sewer system blockage due to a brick and pieces of mortar, in addition to rocks and debris in pipe likely from a break upstream.	Jetted line and cleared blockage.
	Hasset Street at Albee Street	Catch basin (MS4) to receiving water	North Nashua River	6/24/2019	10:00 AM	6/24/2019	10:30 AM	60	Sewer system blockage due to a brick, likely from a lining project upstream a few years prior.	Jetted line and cleared blockage.
	1000 John Fitch Highway	Ground surface	No release to surface water	4/13/2019	11:10 AM	4/13/2019	12:00 PM	2,500	Sewer system blockage due to asphalt chunks from upstream manhole that appeared to have been dislodged, likely by plows during the winter.	Jetted line and cleared blockage.
	88 Miami Street	Backup into property basement	No release to surface water	4/10/2019	7:20 AM	4/10/2019	9:30 AM	5	Sewer system blockage due to piece of brick and rock with mortar attached to it and rags.	Jetted line and cleared blockage.
	33 Darlene Drive	Backup into property basement	No release to surface water	4/8/2019	9:40 AM	4/8/2019	10:00 AM	4	Sewer system blockage due to flat pitch, sags, rags, and solids.	Line was jetted and cleaned out. City then followed up with a CCTV inspection and noted flat pitch and sags.
	881 Main Street	Direct to receiving water	North Nashua River	3/18/2019	8:44 AM	3/18/2019	8:44 AM	502,320	Rain event, blockage in overflow regulator CSO-032 due to road sand and debris.	Jetted and cleared sand and debris from regulator manhole CSO-032
	Water Street at Nashua River	Direct to receiving water	North Nashua River	3/18/2019	7:00 AM	3/18/2019	7:20 AM	470,000	Rain event, blockage in overflow regulator CSO-039 due to road sand and debris.	Jetted and cleared sand and debris from regulator manhole CSO-039
	71 Rodiman Avenue	Backup into property basement	No release to surface water	3/16/2019	5:15 PM	3/16/2019	5:15 PM	1	Sewer system blockage due to flat pitch.	Line was jetted and cleaned out. City then followed up with a CCTV inspection and noted no defects in pipe, just flat pitch. Homeowner said it has been years but in the past he would back up often.
	56 Elm Street	Backup into property basement	No release to surface water	3/4/2019	12:30 PM	3/4/2019	1:00 PM	40	Sewer system blockage due to rocks, asphalt, and other debris.	Downstream manhole was cleaned of rocks and brick debris, and branch sewer was jetted that was surcharging to relieve blockage.
	12 Jerry Street	Backup into property basement	No release to surface water	2/17/2019	9:00 AM	2/17/2019	10:00 AM	315	Sewer system blockage due to grease.	Jetted line and cleared blockage, area on list of problem areas.
	491 Pearl Street	Backup into property basement	No release to surface water	1/28/2019	11:10 AM	1/28/2019	12:00 PM	5	Sewer system blockage due to grease.	Jetted line and cleared blockage.
	400 Rollstone Road	Direct to receiving water	Sand Brook	1/18/2019	10:30 AM	1/18/2019	10:30 AM	100,000	Sewer system blockage due to brick falling into system from upstream manhole chimney.	Cleaned out junction manhole, removed one brick and other debris.
	715 Westminster Street	Catch basin (MS4) to receiving water	North Nashua River	1/7/2019	12:45 PM	1/7/2019	4:00 PM	25,000	Sewer system blockage caused by rags.	Jetted line and pulled out 3-foot long by 1-foot tall blockage of rags.
2018	192 Marshall Road	Ground surface	No release to surface water	12/3/2018	10:00 AM	12/3/2018	10:15 AM	40	Sewer system blockage caused by bricks dropped into sewer by contractor who had recently paved road.	Jetted line and pulled out two bricks.
	101 Fitchburg Road, Westminster	Ground surface	No release to surface water	9/19/2018	6:30 PM	9/19/2018	7:30 PM	3,000	Pipe collapse; MassDOT put guardrail through PVC force main during road reconstruction a few years prior.	Shut off pumps at pump station, fixed pipe.
	569 Main Street	Backup into property basement	No release to surface water	6/20/2018	4:00 PM	6/18/2018	8:00 PM	1,500	Rain event, insufficient capacity in system	Checked manholes and main lines for debris, all clear.
	212 Marshall Street	Backup into property basement	No release to surface water	6/20/2018	4:00 PM	6/18/2018	8:00 PM	800	Rain event, insufficient capacity in system	Checked manholes and main lines for debris, all clear.
	410 Cathy Street	Backup into property basement	No release to surface water	2/5/2018	5:00 PM	2/5/2018	5:00 PM	10	Sewer system blockage, pipe in poor condition.	Cleared blockage, added area to problem area check list.
2017	33 Shelly Avenue	Backup into property basement	No release to surface water	10/30/2017	7:30 AM	10/30/2017	7:30 AM	10	Rain event, insufficient capacity in system. Homeowners use of flapper valve lead to water in basement.	Back-flow preventer was installed and working properly.
	1 Oak Hill Road	Backup into property basement	No release to surface water	10/30/2017	8:00 AM	10/30/2017	8:00 AM	2,000	Rain event, insufficient capacity in system	Mainline flow was good. Additional combined sewer separation upstream may help alleviate surcharging.
	8 Crescent Heights	Backup into property basement	No release to surface water	10/3/2017	12:00 PM	10/3/2017	12:00 PM	15	Sewer system blockage	Excavation was conducted, line was cleaned, jetted, inspected, and repaired.
	10 Jerry Street	Ground surface	No release to surface water	4/20/2017	2:30 PM	4/20/2017	3:30 PM	500	Sewer system blockage	Blockage was freed after debris removal, puddling sewerage was sucked up with vactor truck.
	22 Prospect Street	Catch basin (MS4) to receiving water	North Nashua River	4/12/2017	5:00 PM	4/13/2017	8:00 AM	5,000	Pipe collapse	Bypass setup morning after SSO was discovered, collapsed pipe was repaired.
	22 Davis Street	Ground surface	No release to surface water	4/11/2017	3:30 PM	4/12/2017	8:00 AM	2,000	Root Intrusion	Jetting of line was unsuccessful. Line was cleared the following morning after roots were cut free.
	396 Fifth Mass Turnpike	Ground surface; Direct to receiving water	Flagg Brook	2/28/2017	11:00 AM	2/28/2017	2:30 PM	21,000	Pipe collapse	Bypass was setup and stayed in place until following morning when the repair was made to the cast iron siphon.
	59 Upham Street	Ground surface	No release to surface water	1/26/2017	10:00 AM	1/26/2017	10:30 AM	200	Sewer system blockage due to rocks, asphalt, and other debris	Line was jetted and debris was cleared and disposed of; line was completely cleared to main trunk sewer.
	72 Jackson Avenue	Ground surface	No release to surface water	1/8/2017	2:30 AM	1/8/2017	3:30 AM	300	Sewer system blockage due to rocks, asphalt, and other debris	Line was jetted and debris was vacuumed up and disposed of properly.
	11 Hardy Passway	Ground surface	No release to surface water	1/7/2017	11:30 AM	1/7/2017	1:30 PM	500	Sewer system blockage due to rocks, asphalt, and other debris	Line was jetted and debris was vacuumed up and disposed of properly. Line added to priority cleaning list.
2016	1153 John Fitch Highway	Catch basin (MS4) to receiving water	Falulah Brook	12/25/2016	10:30 PM	12/26/2016	9:00 AM	4,000	Sewer system blockage	Downstream manhole was jetted and blockage was relived. Roots were cut from main line.
	31 Olin Drive	Backup into property basement	No release to surface water	12/16/2016	3:00 PM	12/16/2016	3:30 PM	30	Sewer system blockage caused by a root ball downstream of the home at a defective wye service connection.	Blockage was relived via water jetting. Roots could not be cut out due to deflected clay pipe joints. Manhole installed Spring 2017 at lateral connection at the summit of the line.
	545 Westminster Street	Direct to receiving water	North Nashua River	11/14/2016	1:00 PM	11/14/2016	2:00 PM	5,400,000	Initially notified of algae growth on 10/26/2016. After multiple investigations a sewer system blockage was found at the intersection of Route 2A and Route 31.	Rag ball blockage was relived via jetting, restoring normal operations. Pipe repaired in following weeks.
	153 Fairmount	Backup into property basement	No release to surface water	11/4/2016	1:00 PM	10/21/2016	8:00 PM	300	Rain event	Surcharging subsided with rain event.
	14 Wallace Avenue	Backup into property basement	No release to surface water	11/2/2016	3:30 PM	10/21/2016	8:00 PM	1,870	Rain event, insufficient capacity in system	Surcharging subsided with rain event.
	400 Summer Street	Backup into property basement	No release to surface water	10/27/2016	1:30 PM	10/21/2016	8:00 PM	3,800	Rain event, insufficient capacity in system	Surcharging subsided with rain event. City will install backflow preventer in owner's service lateral.
	187 Fairmount Street	Backup into property basement	No release to surface water	10/26/2016	2:00 PM	10/21/2016	8:00 PM	N/A	Rain event, sewer system blockage	Surcharging subsided with rain event. City will install backflow preventer in owner's service lateral at owner's requests.
	40 Ray Avenue	Backup into property basement	No release to surface water	10/24/2016	4:30 PM	10/24/2016	4:30 PM	300	Rain event, insufficient capacity in system	Unmaintained backflow preventer didn't work properly causing water to backup into basement.
	70 Benson Street	Catch basin (MS4) to receiving water	Unnamed intermittent stream	10/24/2016	10:45 AM	10/24/2016	12:50 PM	162,000	Rain event, sewer system blockage of bricks and debris wedged into pipe caused water to come out of manhole cover. Manhole had been overflowing since 10/22/16 at 7 AM. Majority of sewage was released into a very large flat rip-rapped area and infiltrated into ground.	Blockage was cleared by water jetting.
	33 Shelly Avenue	Backup into property basement	No release to surface water	10/24/2016	9:30 AM	10/21/2016	7:00 PM	3,000	Rain event, insufficient capacity in system	City installed backflow preventer in this location sometime in following weeks to prevent future SSO's.
	29 Goodwin Street	Ground surface	No release to surface water	9/29/2016	11:00 AM	9/29/2016	1:00 PM	20	Sewer system blockage due to size transition in pipe (10 inch diameter to 6 inch). Sewage ran down street 10 feet and infiltrated into grass.	Blockage was cleared with jetter, debris was removed, and roots were cut out of pipe.
	132 Green Street	Backup into property basement	No release to surface water	9/27/2016	5:00 PM	9/27/2016	5:30 PM	10	Sewer system blockage, root intrusion. Resident claims lateral was clear but sewage was still entering basement. Sewer collections team jetted mainline and pulled back debris. Baby wipe build up appears to have cause blockage.	Blockage was cleared with jetter. Considerations for putting extra manhole to provide access to both ends of main line were made.
	Water Street at Walnut (CSO-039)	Direct to receiving water	North Nashua River	6/21/2016	1:00 PM	6/21/2016	2:00 PM	577,000	After a rain event the SSO was discovered during routine checks and was caused by sand/grit and rags blocking the base flow outlet pipe of the CSO regulator.	The blockage was cleared and the structure was cleaned with a jetter/vacuum truck. All catch basin sumps upstream were cleaned.
	1 Delisle Street (Park Hill Park)	Ground surface	No release to surface water	3/1/2016	2:00 PM	3/1/2016	3:00 PM	150	Sewer system blockage; 6 to 12 inch sized rip-rap stones were found in sewer manhole causing blockage. Sewage from SSO percolated into ground around surcharged manhole.	The rip-rap was removed via a catch basin clamshell cleaner truck, vactor truck, and manual labor. Sewer main up and downstream of the block was cleaned and inspected with camera. City will install a locking frame on manhole to prevent unauthorized access and debris.
	10 Jerry Street	Ground surface	No release to surface water	2/11/2016	10:00 AM	2/11/2016	11:00 AM	1,000	Sewer system blockage due to bricks, rocks, and a tire-chock block.	Blockage relieved by jetting main line and cleaning out SMH. Crew vactored up sewage that had pooled on road, remaining sewage percolated into ground.
	65 Fredette Street	Ground surface; Backup into basement	No release to surface water	2/10/2016	10:30 PM	2/10/2016	11:30 PM	2,000	Sewer system blockage due to bricks. Homeowner pumped sewage into backyard where it percolated into ground.	Main line was jetted. 25 bricks were removed from sewer. Repairs were made to failing manhole where the bricks originated.
2015	130 South Street	Catch basin (MS4) to receiving water	North Nashua River	12/15/2015	Unknown	12/15/2015	Unknown	Unknown	Resident discharging gray water from basement via pipe protruding from foundation wall.	Notified Board of Health for enforcement action, worked with homeowner to correct.
	444 Franklin Street	Backup into property basement	No release to surface water	11/10/2015	6:45 AM	11/10/2015	6:45 AM	Unknown	Sewer system blockage in main line due to protruding tap.	Line was jetted and blockage was cleared.
	300' West of 50 Stoneybrook Road	Catch basin (MS4) to receiving water	Unnamed brook	10/14/2015	10:00	10/15/2015	2:00 PM	2,000	Leaking steel sewer force main. The line was jetted which led to short relief period. Leak continued so the pump station was shut down.	Replaced 8 feet of sewer force main. Condition assessment was conducted on the sewer force main to determine if any other repairs or replacements needed to be made.
	149 High Street	Backup into property basement	No release to surface water	10/5/2015	Unknown	10/5/2015	Unknown	Unknown	Sewer system blockage and pipe collapse.	Rooter team snaked line but only up to 80 ft. where they could not go any further. Suspected pipe had been crushed or broken. Excavation of area and repair of pipe was done.
	40 Ray Avenue	Backup into property basement	No release to surface water	9/30/2015	Unknown	9/30/2015	Unknown	Unknown	Rain event caused sewer surcharging.	Surcharging subsided with rain event.

Year	Location	Location of Discharge	Did SSO Enter Surface Water or MS4	Date Discovered	Time Discovered	Date Stopped	Time Stopped	Estimated Volume (gal)	Description of event with known or suspected causes	Mitigation and Corrective measures
	35 Proctor Avenue	Backup into property basement	No release to surface water	9/30/2015	10:45 AM	9/30/2015	11:45 AM	16,000	Rain event; Heavy inflow to sewer system due to torrential rains surcharged sewer in street. Blockage caused by debris in sewer main that originated from newly installed sewer.	Surcharging subsided with rain event. Investigation of storm drains to see if a blockage was the reason for transfer from storm sewer to sanitary sewer.
	667 Westminster Street	CB and 1000' of pipe (MS4) to receiving water	North Nashua River	6/20/2015	9:00 AM	6/24/2015	9:00 AM	205,000	Multiple sewer system collapses in same area over 4 day period. 8-inch VC pipe constructed on ledge was shaken apart by vibratory compactor during paving project 2 weeks prior. Sewage was released onto ground surface and into catch basin.	Located collapse with camera truck and called in on-call services contractor. Multiple collapses in area over 4 day period required multiple temporary fixes leading to permanent fix.
	54 Fredette Street	Backup into property basement	No release to surface water	2/10/2015	10:00 AM	2/10/2015	3:00 PM	200	Sewer system blockage of 8 inch VC pipe.	Vac truck cleared blockage, pipe was cleaned. Attempt to CCTV was made however protruding lateral in way. Plans for lateral to be cut out after weather improved were made.
	55 Fredette Street	Backup into property basement	No release to surface water	2/10/2015	10:00 AM	2/10/2015	3:00 PM	50	Sewer system blockage of 8 inch VC pipe.	Vac truck cleared blockage, pipe was cleaned. Attempt to CCTV was made however protruding lateral in way. Plans for lateral to be cut out after weather improved were made.
2014	John Fitch Highway at Woodbury Ave	Ground; Catch basin (MS4) to detention basin	No release to surface water	11/19/2014	10:15 PM	11/19/2014	10:40 PM	2,000	Caused by a failed bypass pumping system. The bypass system was being transferred from pump 1 to pump 2 and with the valve not being closed properly and the pump being brought online not primed properly the SSO occurred.	An employee of the company that had installed the pump figured out the problem and closed the valve. The site of the SSO was cleaned.
	285 Main Street	Backup into property basement	No release to surface water	7/27/2014	Unknown	7/27/2014	Unknown	2,000	Sewer system blockage. Contractor didn't get proper information from engineering firm during project leading to blockage in sewer lateral.	City assisted the contractor in clearing the blockage. Rooterman vacuumed the SSO into their vactor truck and decanted into a sewer manhole on Day St.
	95 Goodrich Street	Backup into basement; Ground surface	No release to surface water	7/7/2014	5:00 PM	7/7/2014	5:00 PM	200	Rain event, insufficient capacity. 1.1 inches of rain in 20 minutes too much capacity for system under construction. Homeowner bailed the sewage onto the back lawn where it infiltrated the ground.	Contractor made temporary modifications to system to utilize more capacity in storm drain.
	96 St Bernard St	Backup into basement; Ground surface	No release to surface water	7/7/2014	5:00 PM	7/7/2014	5:00 PM	1,000	Rain event, insufficient capacity. 1.1 inches of rain in 20 minutes too much capacity for system under construction. Homeowner bailed the sewage onto the back lawn where it infiltrated the ground.	Contractor made temporary modifications to system to utilize more capacity in storm drain.
	254/256 Boutelle Street	Backup into basement; Ground surface	No release to surface water	7/7/2014	5:00 PM	7/7/2014	5:00 PM	400	Rain event, insufficient capacity. 1.1 inches of rain in 20 minutes too much capacity for system under construction. Homeowner bailed the sewage onto the back lawn where it infiltrated the ground.	Contractor made temporary modifications to system to utilize more capacity in storm drain.
	264 Boutelle Street	Backup into basement; Ground surface	No release to surface water	7/7/2014	5:00 PM	7/7/2014	5:00 PM	200	Rain event, insufficient capacity. 1.1 inches of rain in 20 minutes too much capacity for system under construction. Homeowner bailed the sewage onto the back lawn where it infiltrated the ground.	Contractor made temporary modifications to system to utilize more capacity in storm drain.
	276 Boutelle Street	Backup into basement; Ground surface	No release to surface water	7/7/2014	5:00 PM	7/7/2014	5:00 PM	500	Rain event, insufficient capacity. 1.1 inches of rain in 20 minutes too much capacity for system under construction. Homeowner bailed the sewage onto the back lawn where it infiltrated the ground.	Contractor made temporary modifications to system to utilize more capacity in storm drain.
	300 Boutelle Street	Backup into basement; Ground surface	No release to surface water	7/7/2014	5:00 PM	7/7/2014	5:00 PM	200	Rain event, insufficient capacity. 1.1 inches of rain in 20 minutes too much capacity for system under construction. Homeowner bailed the sewage onto the back lawn where it infiltrated the ground.	Contractor made temporary modifications to system to utilize more capacity in storm drain.
	4 Maverick Street	Backup into property first floor and basement	No release to surface water	6/26/2014	3:00 AM	6/26/2014	3:00 AM	200	Rain event, insufficient capacity, sewer system blockage. Temporary connection due to construction was insufficient for combined sewer. Sewage emptied into first floor and drained into basement.	Contractor made a permanent connection to existing combined sewer.
	Boutelle Street at St Bernard Street	Ground surface	No release to surface water	5/17/2014	5:45 AM	5/17/2014	5:45 AM	1,000,000	Rain event. Revoli Construction installed a temporary connection that was undersized and restricted flow causing SSO to exit manhole and run down the street before infiltrating the ground. Sewage also entered a few basements of surrounding properties.	Surcharging subsided with rain event. City met to discuss measures to be taken. Included better plans for temporary connections to be provided by Revoli Construction.
	65 Fredette Street	Ground; CB and 5,230' (MS4) to receiving water	Nashua River	2/12/2014	5:00 PM	2/12/2014	5:00 PM	5,000	Sewer system blockage of 8 inch VC pipe in street lead to backup in property basement which was pumped into driveway and eventually entered a catch basin which brought it to the Oak Hill Road bridge outfall.	Vac truck cleared blockage. Collections crew cleaned pipe and checked it the following day.
	75 Walnut Street	Direct to receiving water	North Nashua River	1/11/2014	Unknown	1/29/2014	Unknown	1,800	Sewer system collapse; Large block of ice knocked manhole off its base in river. Private lateral assumed to come loose concurrently.	Blue Diamond Construction hired to fix manhole. Lateral reconnected on 1/29/2014
2013	66 Thorndike Street	Backup into basement; Ground surface	No release to surface water	12/16/2013	10:30 AM	12/16/2013	10:30 AM	500	Sewer system blockage in street due to 8 inch VC pipe collapse. Plumber bailed 500 gallons into backyard where it percolated into ground underneath snow.	Vac truck cleared blockage. Excavation planned to repair pipe in following days.
	Regulator 036 at 98 Laurel Street	CB and 1000' of pipe (MS4) to receiving water	Nashua River	9/22/2013	5:15 AM	9/22/2013	5:15 AM	50,000	Rain event; insufficient capacity. During combined sewer separation regulator was closed too soon; not enough capacity in downstream pipe. Sewer manhole cover popped off, crew arrived after event was over.	Short term fix included opening regulator and installing meter. Long term fix included more catch basin separation.
	905 Merriam Ave, Pizzeria Uno, Twin City Plaza	Ground surface; wetland area	Wetland area	6/11/2013	7:45 AM	6/11/2013	11:30 AM	81,000	Sewer system blockage of 12 inch discharge pipe due to rocks, grease, and rags.	Two 3 inch trash pumps setup to stop SSO. 6 inch pump installed to bypass problem manhole. Surcharging in system relieved. Problem manhole is isolated and blockage is cleared.
	58 St Andrew Street	Backup into property basement	No release to surface water	5/22/2013	7:00 AM	5/22/2013	7:00 AM	200	Rain event; Sewer system blockage due to grease and a root intrusion.	Blockage cleared with jetter and roots were cut out. Line CCTV'd following incident.
	Pole 55, Oak Hill Road	Ground surface	No release to surface water	4/29/2013	9:15 AM	4/29/2013	9:15 AM	125	Sewer system blockage due to grease from Oak Hill Country Club. SSO flowed for 75 ft. along side of road eventually percolating into ground at low point.	Blockage was cleared. City scheduled to visit pipe to clean, jet and CCTV in the following months. Notified OHCC to be diligent about semi-annual pump outs.

City of Fitchburg, Massachusetts
Massachusetts Small MS4 General Permit
Year 5 Annual Report
Reporting Period: July 1, 2022 – June 30, 2023

Appendix D – Outfall Ranking

ARCADIS

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Outfall Screening

ARCADIS

Outfall ID	Outfall Located	Outfall Type	Location	Receiving Water	Updated Ranking
C404	Located	MS4	Downstream of Coolidge Park Bridge (West Bank)	Falulah Brook	Problem
C444	Not Located	MS4	In Nashua River Upstream of C444, Downstream of Rail Road Bridge	N. Nashua River MA81-02	Problem
C213	Located	MS4	Fisher Road at Pearl Hill Road intersection	Trib. to Falulah Brook MA81-63	High Priority
C217	Located	MS4	John Fitch Highway, 100ft East of intersection with Will Thompson Way	Trib. to Falulah Brook MA81-63	High Priority
C218	Located	MS4	John Fitch Highway NE side of bridge between Will Thompson way and Pearl Hill Rd	Falulah Brook	High Priority
C220	Located	MS4	South side underneath Pearl Hill Rd Bridge	Falulah Brook	High Priority
C236	Located	MS4	Marden St, near intersection with Townsend St (Near Eastwood Club)	Falulah Brook MA81-63	High Priority
C3115	Located	MS4	South End in of Parkhill Park, within stone Channel	Sand Brook	High Priority
C330	Located	MS4	Underneath Daniels St Bridge	N. Nashua River MA81-02	High Priority
C333	Located	MS4	Underneath Oak Hill Rd Bridge South Side (River St. @ Oak Hill Rd)	N. Nashua River MA81-02	High Priority
C343	Located	MS4	Across from 601 River St North bank of Nashua River	N. Nashua River MA81-02	High Priority
C350	Located	MS4	198 bishop	N. Nashua River MA81-02	High Priority
C377	Located	MS4	In the wood between 46 and 45 Hartland Ave (past the end of the street)	N. Nashua River MA81-01	High Priority
C379	Located	MS4	Across from 490 Westminister St	N. Nashua River MA81-01	High Priority
C427	Located	MS4	334 John Fitch	Baker Brook	High Priority
C438	Located	MS4	In woods across from Canton St, South Side of 44 Wanoosnoc Rd	N. Nashua River MA81-02	High Priority
C442	Located	MS4	In woods SE of Intersection of Water St and John T Centrino Memorial Dr	N. Nashua River MA81-02	High Priority
C457	Located Not Accessible	MS4	Riverfront Park off Boulder Dr, Downstream of Bridge East Bank Hidden by Bamboo	N. Nashua River MA81-02	High Priority
C101	Located	MS4	833 Rindge Road	Falulah Brook	Low Priority
C102	Located	MS4	Behind 939 Rindge Road	Falulah Brook	Low Priority
C103	Located	MS4	In woods behind pump building on Rindge Road	Falulah Brook	Low Priority
C104	Located		40ft upstream of C103		Low Priority
C105	Located		Behind Water Storage Tanks on Ringe Road		Low Priority
C106	Located		Behind Water Storage Tanks on Ringe Road		Low Priority
C107	Located	MS4	15ft from catch basin on east side of Rindge Rd between 1107 and 11633 Rindge Rd		Low Priority
C108	Located	MS4	South side of Stoneybrook Rd next to 3 36" R.C. culverts		Low Priority
C109	Located	MS4	Behind pump station between 101 and 103 Stoneybrook Rd		Low Priority
C110	Located	MS4	In woods between 171 and 183 Stoneybrook Rd		Low Priority
C111	Located	MS4	Intersection of Nijal Ct and Rindge Rd SE corner in side slope		Low Priority
C112	Located	MS4	Detention Pond at Nijal Ct		Low Priority
C113	Located	MS4	Detention Pond at Nijal Ct		Low Priority
C201	Located	MS4	NW Corner of detention pond behind 513 Richardson Rd	Trib. to Greene's Pond	Low Priority
C202	Located	MS4	NE Corner of detention pond behind 513 Richardson Rd	Trib. to Greene's Pond	Low Priority
C203	Not Located	MS4	Detention pond behind 513 Richardson Rd in SW cormer	Trib. to Greene's Pond	Low Priority
C204	Located	MS4	Scott Rd; Sima Park	Trib. to Falulah Brook	Low Priority
C205	Located	MS4	In woods behind 709 and 697 Rindge Rd	Falulah Brook	Low Priority

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
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Dry Weather Outfall Screening

Outfall ID	Outfall Located	Outfall Type	Location	Receiving Water	Updated Ranking
C206	Located	MS4	Greens Pond	Greene's Pond/ Falulah Brook MA81-63	Low Priority
C208	Located Not Accessible	MS4	Greens Pond Bridge, Ashbystate Rd, NW side	Falulah Brook	Low Priority
C209	Located	MS4	Greens Pond Bridge, Ashbystate Rd, NE side	Falulah Brook	Low Priority
C210	Located	MS4	Fisher Rd Bridge SW side, easily visable	Falulah Brook	Low Priority
C211	Located	MS4	Inside culvert near intersection of Richardson Rd and Richardson Dr, inside Manhole	Falulah Brook MA81-63	Low Priority
C212	Located	MS4	Inside culvert near intersection of Richardson Rd and Richardson Dr, upstream of Manhole	Falulah Brook MA81-63	Low Priority
C214	Located	MS4	Behind 205 and 221 Will Thompson Way	Trib. to Falulah Brook MA81-63	Low Priority
C216	Located	Private	Corner of John Fitch and Will Thompson Way	Trib. to Falulah Brook MA81-63	Low Priority
C219	Located	MS4	North Side underneath Pearl Hill Rd Bridge	Falulah Brook	Low Priority
C222	Located	MS4	On hillside in fron of Burbank Hospital, near top of hill	Falulah Brook MA81-63	Low Priority
C223	Located	MS4	John Fitch Highway SE of La Bella Pizza on SE corner of Bridge	Falulah Brook MA81-63	Low Priority
C224	Located	MS4	John Fitch @ Civic center	Falulah Brook MA81-63	Low Priority
C225	Located	MS4	John Fitch@civic center	Falulah Brook MA81-63	Low Priority
C227	Located	MS4	Coolidge @ oakwood	Falulah Brook	Low Priority
C228	Located	MS4	Coolidge @ oakwood	Falulah Brook	Low Priority
C229	Located	MS4	Intersection of Blossom St. and Mt.Vernon St.	Falulah Brook MA81-63	Low Priority
C230	Located	MS4	Lower rindge rd	Falulah Brook	Low Priority
C231	Located	MS4	Lower rindge rd	Falulah Brook	Low Priority
C232	Located	MS4	Lower Rindge Rd	Falulah Brook	Low Priority
C233	Located	MS4	Lower rindge rd. McKay	Falulah Brook	Low Priority
C234	Located	MS4	Marden St, near intersection with Townsend St (Near Eastwood Club)	Falulah Brook MA81-63	Low Priority
C235	Located	MS4	Marden St, near intersection with Townsend St (Near Eastwood Club)	Falulah Brook MA81-63	Low Priority
C237	Located	MS4	In Detention Pond Behind 12 Macintosh Lane North End	Trib. to Townsend Road Pond	Low Priority
C239	Located	MS4	In Detention Pond Behind 12 Macintosh Lane South End	Trib. to Townsend Road Pond	Low Priority
C240	Located	Private	Behind 3 Macintosh Lane	Trib. to Townsend Road Pond	Low Priority
C241	Located	MS4	In Detention Pond Behind 122 Macintosh Lane South End	Trib. to Townsend Road Pond	Low Priority
C244	Located	MS4	Arn how farm road	Trib. to Saima Pond	Low Priority
C301	Located	MS4	Under River st Bridge at Intersection with Main St (by KC's Pub) North Side	N. Nashua River MA81-02	Low Priority
C302	Located	MS4	Under River st Bridge at Intersection with Main St (by KC's Pub) North Side	N. Nashua River MA81-02	Low Priority
C303	Located Not Accessible	MS4	Under River st Bridge at Intersection with Main St (by KC's Pub) South Side	N. Nashua River MA81-02	Low Priority
C304	Not Located		KC' Pub, Upstream of C303 North Side of River	N. Nashua River MA81-02	Low Priority
C305	Located	MS4	East Side of Detention Pond at end of Valley View Court	Trib. to N. Nashua River MA81-02	Low Priority
C306	Located	MS4	East Side of Detention Pond at end of Valley View Court (Next to C305)	Trib. to N. Nashua River MA81-02	Low Priority
C309	Located	MS4	Gateway Park	N. Nashua River MA81-02	Low Priority
C310	Located	MS4	Instersection of West St and Sheldon St Downstream	N. Nashua River MA81-02	Low Priority
C3101	Located	MS4	Across from 520 Fairmount St (Assumed)	N. Nashua River MA81-01	Low Priority
C3102	Located	MS4	Behind 68 Bilotta Way in North Detention Pond	N. Nashua River MA81-01	Low Priority
C3103	Located	MS4	Behind 76 Bilotta Way in South Detention Pond	N. Nashua River MA81-01	Low Priority
C3105	Not Located	MS4	In the wood west of Appleton Circle on hillside	N. Nashua River MA81-01	Low Priority

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Outfall Screening

ARCADIS

Outfall ID	Outfall Located	Outfall Type	Location	Receiving Water	Updated Ranking
C3106	Located	MS4	Behind 109 Depot St	Trib. to N. Nashua River MA81-01	Low Priority
C3109	Located	MS4	Next to 242 Rollstone Rd	Sand Brook	Low Priority
C311	Located	MS4	Next to 242 Rollstone Rd	Sand Brook	Low Priority
C3111	Located	MS4	Intersection of Rollstone Rd and Electirc Aveneue	Sand Brook	Low Priority
C3112	Located	MS4	Intersection of Rollstone Rd and Electirc Aveneue	Sand Brook	Low Priority
C3113	Located	MS4	Across from 100 Franklin St (next to utility corridor)	Sand Brook	Low Priority
C3114	Located	MS4	Across from 100 Franklin St (next to utility corridor)	Sand Brook	Low Priority
C3116	Located	MS4	South End in of Parkhill Park, at the upstream end of stone channel	Sand Brook	Low Priority
C3118	Located	MS4	In the woods behind 55 Causeway St	Sand Brook	Low Priority
C312	Located	MS4	Underneath Sheldon St Bridge	N. Nashua River MA81-02	Low Priority
C3120	Located	MS4	North Side of Parkhill Park (Downstream of C3119)	Sand Brook	Low Priority
C3122	Located	MS4	Behind the Shed of 73 Amiott St	Sand Brook	Low Priority
C3127	Located	MS4	Quarry Lane Detention Pond 2 (Farthest from the Street)	Sand Brook	Low Priority
C3128	Located	MS4	In the yard of 96 Wall St	Sand Brook	Low Priority
C3129	Not Located	MS4	Behind 249 Kimball St (covered in Dense Bamboo)	N. Nashua River MA81-02	Low Priority
C313	Located	MS4	Underneath Sheldon St Bridge	N. Nashua River MA81-02	Low Priority
C3132	Located	Private	In yard of 132 Beech St	N. Nashua River MA81-02	Low Priority
C314	Located	MS4	In Nashua River near abandoned Pedestrian bridge behind 1428 Main St	N. Nashua River MA81-02	Low Priority
C315	Located	MS4	In Nashua River near abandoned Pedestrian bridge behind 1428 Main St	N. Nashua River MA81-02	Low Priority
C316	Located	MS4	In Nashua River near abandoned Pedestrian bridge behind 1428 Main St	N. Nashua River MA81-02	Low Priority
C317	Located	MS4	Yarn Works	N. Nashua River MA81-02	Low Priority
C318	Located	MS4	Parking Lot of 1428 Main St	N. Nashua River MA81-02	Low Priority
C319	Located	MS4	Wallace @ River	N. Nashua River MA81-02	Low Priority
C320	Located	MS4	Wallace @ River	N. Nashua River MA81-02	Low Priority
C321	Located	MS4	River St Bridge @ Wallace Rd, West Side Downstream	N. Nashua River MA81-02	Low Priority
C322	Located	MS4	River St Bridge @ Wallace Rd, West Side Downstream	N. Nashua River MA81-02	Low Priority
C323	Located	MS4	River St Bridge @ Wallace Rd, West Side Underneath	N. Nashua River MA81-02	Low Priority
C324	Located	MS4	Under Kimball St Bridge (between rotary and Cleghorn St) East side	N. Nashua River MA81-02	Low Priority
C325	Located	MS4	Kimball St bridge abutment	N. Nashua River MA81-02	Low Priority
C326	Located	MS4	Cleghorn St	N. Nashua River MA81-02	Low Priority
C327	Located	MS4	Cleghorn St	N. Nashua River MA81-02	Low Priority
C328	Located	MS4	Cleghorn St	N. Nashua River MA81-02	Low Priority
C329	Located	MS4	Underneath Daniels St Bridge	N. Nashua River MA81-02	Low Priority
C331	Located	MS4	Behind East side of 408 River St	N. Nashua River MA81-02	Low Priority
C332	Located		Underneath Oak Hill Rd Bridge North Side	N. Nashua River MA81-02	Low Priority
C334	Located	MS4	Underneath Oak Hill Rd Bridge South Side (River St. @ Oak Hill Rd)	N. Nashua River MA81-02	Low Priority
C336	Located	MS4	Between 25 and 41 Almount St	N. Nashua River MA81-02	Low Priority
C338	Not Located	MS4	Across from 91 Wallace Rd North West of Detention Pond	N. Nashua River MA81-02	Low Priority
C341	Located	MS4	Straight down towards river from hole in the wall, Near Murphys Auto	N. Nashua River MA81-02	Low Priority

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Outfall Screening

Outfall ID	Outfall Located	Outfall Type	Location	Receiving Water	Updated Ranking
C342	Not Located		Upstream of brook that enters Nashua next to Railroad bridge at Southern intersection of Wallace and River	N. Nashua River MA81-02	Low Priority
C345	Located		South bank of Nashua River across from East side of 644 River St (Far behind 389 Fairmount St)	N. Nashua River MA81-02	Low Priority
C347	Located	MS4	castle st	N. Nashua River MA81-02	Low Priority
C348	Located	MS4	castle st	N. Nashua River MA81-02	Low Priority
C349	Located		Detention Pond Behind 208 Bishop Rd	N. Nashua River MA81-01	Low Priority
C351	Located	MS4	Detion Pond in center of Bishop Rd	N. Nashua River MA81-02	Low Priority
C352	Located	MS4	Detion Pond in center of Bishop Rd	N. Nashua River MA81-02	Low Priority
C353	Located	MS4	Across from 753 River St	N. Nashua River MA81-01	Low Priority
C354	Located	MS4	Across from 753 River St	N. Nashua River MA81-01	Low Priority
C355	Located	MS4	Intersection of Fairmount St and Liberty Cir (North)	N. Nashua River MA81-02	Low Priority
C356	Located	MS4	Intersection of Fairmount St and Liberty Cir (North)	N. Nashua River MA81-01	Low Priority
C358	Not Located	MS4	Below SW corner of Munksjo building in wall next to river	Wymans Brook	Low Priority
C359	Located	MS4	Depot st bridge	N. Nashua River MA81-01	Low Priority
C360	Located	MS4	Depot St Bridge North Side	N. Nashua River MA81-01	Low Priority
C361	Located		Westminster St Bridge over Phillips Brook	Phillips Brook	Low Priority
C362	Located		Westminster St Bridge over Phillips Brook	Phillips Brook	Low Priority
C363	Located	MS4	Westminster St Bridge over Phillips Brook	Phillips Brook	Low Priority
C365	located	MS4	Nextr to 62 Stickney Road	Trib. to Phillips Brook	Low Priority
C367	Located	MS4	Next to 535 Ashburnham Street	Trib. to Phillips Brook	Low Priority
C368	Located	MS4	365 Ashburnham st	Trib. to Phillips Brook	Low Priority
C369	Located	MS4	Nesr mctaggarts pond	Phillips Brook	Low Priority
C371	Located	MS4	Along Westminister Hill Rd between Sanborn St and Baltic Lane (Best observed from Canyon)	Phillips Brook	Low Priority
C372	Located	MS4	Along Westminister Hill Rd between Sanborn St and Baltic Lane (Best observed from Canyon)	Phillips Brook	Low Priority
C373	Located	MS4	224 ashburnham st	Trib. to Phillips Brook	Low Priority
C374	Located	MS4	Sanborn St	Phillips Brook	Low Priority
C375	Located	MS4	Behind 179 Westminister St	N. Nashua River MA81-01	Low Priority
C376	Located		In the wood between 46 and 45 Hartland Ave (past the end of the street)	N. Nashua River MA81-01	Low Priority
C378	Located	MS4	In detention pond at intersection of Kaysha and Hemlock		Low Priority
C380	Located	MS4	Across from 490 Westminister St	N. Nashua River MA81-01	Low Priority
C381	Located	MS4	Across from 490 Westminister St	N. Nashua River MA81-01	Low Priority
C383	Located	MS4	Across from 1 Overland	Trib. to N. Nashua River MA81-01	Low Priority
C384	Not Located	MS4	Behind 114 Cascade St	Trib. to N. Nashua River MA81-01	Low Priority
C385	Located	MS4	Intersection of Westminister St and Industrial Rd	Snows Millpond	Low Priority
C386	Located	MS4	Intersection of Westminister St and Industrial Rd	Snows Millpond	Low Priority
C387	Located	MS4	Intersection of Westminister St and Industrial Rd	Snows Millpond	Low Priority
C388	Located	MS4	In the woods behind Arbor Way	Trib. to N. Nashua River MA81-01	Low Priority
C389	Located	MS4	End of Stevens Rd	Trib. to N. Nashua River MA81-01	Low Priority
C390	Located	MS4	End of Stevens Rd	Trib. to N. Nashua River MA81-01	Low Priority
C391	Located	MS4	NE Corner of SW detention pond at Victoria Lane and Ropers Rd	BMP/Sawmill Pond	Low Priority
C392	Located	MS4	At the end of Swail SW of the SW detention Pond	BMP/Sawmill Pond	Low Priority

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
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Dry Weather Outfall Screening

Outfall ID	Outfall Located	Outfall Type	Location	Receiving Water	Updated Ranking
C394	Not Located	MS4	East side of North Detention Pond at intersection of Victoria Lane and Ropers Rd	BMP/Sawmill Pond	Low Priority
C396	Located	MS4	North side od detention pond at Victoria Lane @ Game On Way	BMP/Sawmill Pond	Low Priority
C401	Located	MS4	Upstream of coolodge park Bridge (West Bank)	Falulah Brook	Low Priority
C402	Located	MS4	Upstream of coolodge park Bridge (West Bank)	Falulah Brook	Low Priority
C403	Located	MS4	Coolidge	Falulah Brook	Low Priority
C405	Located	MS4	Downstream of Coolidge Park Bridge (West Bank) behind 197 Townsend St	Falulah Brook	Low Priority
C406	Located	MS4	Downstream of Coolidge Park Bridge (East Bank) behind 146 Buttrick Ave	Falulah Brook	Low Priority
C407	Located	MS4	Detention Pond at Almees Way NE Corner	Falulah Brook MA81-63	Low Priority
C408	Located	MS4	Detention Pond at Almees Way SE Corner	Falulah Brook MA81-63	Low Priority
C409	Located	MS4	Detention Pond at Almees Way SW Corner	Falulah Brook MA81-63	Low Priority
C411	Located	MS4	Downstream of Lunenburg St Bridge West Side	Falulah Brook MA81-63	Low Priority
C412	Located	MS4	Downstream of Lunenburg St Bridge East Side	Falulah Brook	Low Priority
C416	Located	MS4	In brook on North Side of Parkinglot at John Fitch Plaza	Falulah Brook	Low Priority
C417	Located		In brook on North Side of Parkinglot at John Fitch Plaza	Falulah Brook	Low Priority
C420	Located	MS4	In brook behind 420 John Fitch Highway (Enterprise Bank)	Baker Brook	Low Priority
C421	Located	MS4	In brook behind 406 John Fitch Highway (Aarons)	Baker Brook	Low Priority
C422	Located	MS4	In brook behind 380 John Fitch Highway (Urgent Care)	Baker Brook	Low Priority
C423	Located	MS4	In brook behind 334 John Fitch Highway (McDonalds)	Baker Brook	Low Priority
C424	Located	MS4	In brook behind 334 John Fitch Highway (McDonalds)	Baker Brook	Low Priority
C426	Located	MS4	In brook behind 334 John Fitch Highway (McDonalds)	Baker Brook	Low Priority
C428	Located	MS4	In brook benind Jonh Fitch Highway Across from St Bernand Athletic Fields	Baker Brook	Low Priority
C429	Located	MS4	In brook benind Jonh Fitch Highway Across from St Bernand Athletic Fields	Baker Brook	Low Priority
C430	Not Located	MS4	In brook next to 130 John Fitch Highway (Carstar)	Baker Brook	Low Priority
C431	Located	MS4	In Swale at end of Ray Ave and 100 John Fitch Highway		Low Priority
C434	Not Located		On Nashua River bank behind 135 Intervale Rd	N. Nashua River MA81-02	Low Priority
C435	Not Located		Behind 88 Benson St	Trib. to N. Nashua River MA81-02	Low Priority
C436	Not Located		Behind 88 Benson St	Trib. to N. Nashua River MA81-02	Low Priority
C439	Located Not Accessible		Behind 480 Water St, downstream of railroad bridge	N. Nashua River MA81-02	Low Priority
C440	Located		Downstream of C438, on downstream face of Dam / Arden Mills Way	N. Nashua River MA81-02	Low Priority
C441	Located	MS4	In woods SE of Intersection of Water St and John T Centrino Memorial Dr	N. Nashua River MA81-02	Low Priority
C443	Not Located		In Nashua River Upstream of C444, Downstream of Rail Road Bridge	N. Nashua River MA81-02	Low Priority
C445	Located	MS4	In Nashua River near corner of First St and Railroad St	N. Nashua River MA81-02	Low Priority
C446	Located	MS4	Under Water St Bridge at Central Plaza South Side	N. Nashua River MA81-02	Low Priority
C447	Located	MS4	Under Water St Bridge at Central Plaza North Side	N. Nashua River MA81-02	Low Priority

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
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ARCADIS

Outfall ID	Outfall Located	Outfall Type	Location	Receiving Water	Updated Ranking
C448	Located Not Accessible	MS4	North Side of Walnut St	N. Nashua River MA81-02	Low Priority
C449	Located	Upland	CHANGE LOCATION	N. Nashua River MA81-02	Low Priority
C450	Located	MS4	North Side of Walnut St	N. Nashua River MA81-02	Low Priority
C451	Located	MS4	North Side of Walnut St	N. Nashua River MA81-02	Low Priority
C452	Located	MS4	North Side of Walnut St	N. Nashua River MA81-02	Low Priority
C453	Not Located		NW side of Water Street Bridge Behind tall grass	N. Nashua River MA81-02	Low Priority
C454	Located Not Accessible	MS4	5th Street Bridge (parked across from 5th Street Diner, 134 Harvard St)	N. Nashua River MA81-02	Low Priority
C455	Located	MS4	Just Downstream of Laurel St Bridge, West Bank (Laurel St at South St)	N. Nashua River MA81-02	Low Priority
C458			Riverfront Park off Boulder Dr, within bridge abutment on upstream West side	N. Nashua River MA81-02	Low Priority
C460	Located	MS4	Riverfront Park off Boulder Dr. Couple hundred ft East of steel / wood bridge	N. Nashua River MA81-02	Low Priority
C462	Not Located		Near Intersection of Romano Ave and South St, Across the Street from C461	Trib. to N. Nashua River MA81-02	Low Priority
C464	Located	MS4	Near Intersection of Electric Ave and South St, NE Side	Trib. to N. Nashua River MA81-02	Low Priority
C465	Located	MS4	Near Intersection of Electric Ave and South St, NE Side	Trib. to N. Nashua River MA81-02	Low Priority
C468	Located	MS4	Between 106 and 132 Canton Street	Trib. to N. Nashua River MA81-02	Low Priority
C469	Located	MS4	Mt Elam Rd Entrance to Coggshall Park	Unnamed Pond off Laurel Ave.	Low Priority
C470	Located	MS4	Across from 455 Milk St (Likely originatates from manhole @ intersection of Hutchinson and Seneca)	Trib. to N. Nashua River MA81-02	Low Priority
C471	Located	MS4	Across from 455 Milk St	Trib. to N. Nashua River MA81-02	Low Priority
C472	Located	MS4	Across From 455 Milk St	Trib. to N. Nashua River MA81-02	Low Priority
C473	Located	MS4	Across from 455 Milk St	Trib. to N. Nashua River MA81-02	Low Priority
C474	Located		In the woods behind Kingsburry and Colburn St	N. Nashua River MA81-02	Low Priority
C475	Located Not Accessible	MS4	At the end of Kimball St Sewer Easememnt (Bewteen Intersections with Putnam and Franklin); Fitchburg Cable Access TV	N. Nashua River MA81-02	Low Priority
C476	Located	MS4	Behind Rollstone Bank & Trust; Across from DPW Parking Lot	N. Nashua River MA81-02	Low Priority
C477	Located	MS4	Behind Rollstone Bank & Trust; Across from DPW Parking Lot	N. Nashua River MA81-02	Low Priority
C478	Located	MS4	Underneath Old Rollstone Street Bridge North Side	N. Nashua River MA81-02	Low Priority
C479	Located	MS4	Underneath Old Rollstone Street Bridge South Side (DPW Bridge)	N. Nashua River MA81-02	Low Priority
C480	Located	MS4	Across from 375 Princton Rd	Flag Brook	Low Priority
C481	Located	MS4	Underneath Old Rollstone Street Bridge South Side (DPW Bridge)	N. Nashua River MA81-02	Low Priority
C482	Located	MS4	Underneath New Rollstone Street Bridge South Side	N. Nashua River MA81-02	Low Priority
C484	Located	MS4	Circle St Bridge	N. Nashua River MA81-02	Low Priority
C485	Located	MS4	Circle St Bridge	N. Nashua River MA81-02	Low Priority
C486	Located	MS4	Circle St Bridge	N. Nashua River MA81-02	Low Priority
C487	Located	MS4	Circle St Bridge	N. Nashua River MA81-02	Low Priority
C503	Located	MS4	Bray Ave South Detention Pond	Sawmill Pond	Low Priority
C505	Located	MS4	Just Outside Bray Ave South Deteniton Pond (Outfall for C504 Inlet)	Sawmill Pond	Low Priority
C508	Located	MS4	Bray Ave South Detention Pond	Sawmill Pond	Low Priority
C510	Located	MS4	Just Outsdide Bray Ave North Detention Pond (Oufall to C509 Inlet)	Sawmill Pond	Low Priority

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Outfall Screening

ARCADIS

Outfall ID	Outfall Located	Outfall Type	Location	Receiving Water	Updated Ranking
C511	Located	MS4	Across from 375 Princeton Rd; Can-Am Machinery Parking lot	Flag Brook	Low Priority
C512	Located	MS4	Between 180 and 160 Authority Dr	Wymans Brook	Low Priority
C513	Located	MS4	Across from 407 Princeton Rd/ Can-Am Machinery	Flag Brook	Low Priority
C514	Located	MS4	Across from 407 Princeton Rd	Flag Brook	Low Priority
C515	Located	MS4	SW side of Fifth Mass Turnpike Bridge (Buried under thorn bush)	Flag Brook	Low Priority
C516	Located	MS4	Between 180 and 160 Authority Dr	Wymans Brook	Low Priority
C517	Located	MS4	Detention pond behind 257 Tibbett Circle	Trib. to Monoosnoc Brook	Low Priority
C518	Located	MS4	Intersection of Authority Dr and Development Rd in woods	Wymans Brook	Low Priority
C520	Located	MS4	In woods at the end of Authority Dr	Wymans Brook	Low Priority
C525	Located	MS4	East End of Pepper St	Shea Brook	Low Priority
C526	Located	MS4	Behind 160 Pepper Rd (Upstream of C525)	Shea Brook	Low Priority
C527	Located	MS4	Behind 160 Pepper Rd (Upstream of C525)	Shea Brook	Low Priority
C528	Located	MS4	Detention pond East end of Sarah Lane (Next to 69 Sarah Lane)	Shea Brook	Low Priority
C529	Located	MS4	62 Anita Drive	Sand Brook	Low Priority
C530	Located	MS4	Next to 62 Anita Dr	Sand Brook	Low Priority
C531	Located	MS4	Between 105 and 121 Tibbett Circle	Trib. to Monoosnoc Brook	Low Priority
C532	Located	MS4	Between 105 and 121 Tibbett Circle	Trib. to Monoosnoc Brook	Low Priority
C533	Located	MS4	Off Watt's Way @ Eleanor St In Detention Pond	Sand Brook	Low Priority
C534	Located	MS4	Detention pond behind 257 Tibbett Circle	Trib. to Monoosnoc Brook	Low Priority
C535			Off Watt's Way @ Eleanor St In Detention Pond	Trib. to Monoosnoc Brook	Low Priority
C536	Located	MS4	Off Watt's Way @ Eleanor St In Detention Pond	Sand Brook	Low Priority
C537	Located	MS4	Detention Pond Across from 15 Carrie Ann Lane	Sand Brook	Low Priority
C538	Located	MS4	Detention Pond Across from 15 Carrie Ann Lane	Sand Brook	Low Priority
C539	Located	MS4	Detention pond behind 112 Goodfellow Dr	Trib. to Monoosnoc Brook	Low Priority
C540	Located	MS4	Detention pond behind 112 Goodfellow Dr	Trib. to Monoosnoc Brook	Low Priority
C543	Located		Just Outside Detention Pond Behind 32 Goodfellow Dr	N. Nashua River MA81-02	Low Priority
C601	Located	MS4	Stony Creek/ Next to 234 Wanoosnoc Rd	Trib. to N. Nashua River MA81-02	Low Priority
C602	Located	MS4	Stony Creek/ Next to 234 Wanoosnoc Rd	Trib. to N. Nashua River MA81-02	Low Priority
C603	Located	MS4	Next to 30 Glen Ave	Monoossnoc Brook	Low Priority
C606	Located	MS4	Next to 18 Olin Drive	Trib.ute to Monoosnoc Brook	Low Priority
C607	Located	MS4	Next to 18 Olin Ave	Trib.ute to Monoosnoc Brook	Low Priority
C610	Located	MS4	Intersection of Carriageway Dr and Chalmers St	Trib. to N. Nashua River MA81-02	Low Priority
C612	Located	MS4	Behind 1426 Water St	Trib. to N. Nashua River MA81-02	Low Priority
C613	Not Located		Airport Blvd at Crawford St	Falulah Brook	Low Priority
N/A-001	Located	Culvert	Kyle Rd		Low Priority
N/A-003	Located	MS4	Kyle Rd		Low Priority
N/A-004	Located	MS4	Kyle Rd		Low Priority
Unmarked-1	Located	MS4	South St @ Olin Ave (DeCarolis Insurance Parking lot)		Low Priority
Unmarked-2	Located	MS4	Ashby State @ Kyle Rd		Low Priority
Unmarked-3	Located	MS4			Low Priority
Unmarked-4	Located	Private	Detention Pond Behind 208 Bishop Rd	N. Nashua River MA81-02	Low Priority
Unnamed	Located	MS4	Greenes Pond Dam on SE side of Bridge		Low Priority
C243	Located	Culvert	Under Driveway of 19 New West Townsend Rd	Trib. to Townsend Road Pond	Excluded
C395	Located	Culvert	North Side of North Detention Pond at intersection of Victoria Lane and Ropers Rd	BMP/Sawmill Pond	Excluded
C399	Located	Culvert	Behind 18 Chesnut St	N. Nashua River MA81-02	Excluded
C418	Located	Private	In brook behind 528 John Fitch Highway (Peerless Liquors)	Falulah Brook	Excluded

City of Fitchburg, Massachusetts
Massachusetts Small MS4 General Permit
Year 5 Annual Report
Reporting Period: July 1, 2022 – June 30, 2023

Appendix E – IDDE Catchment Investigations

ARCADIS

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C101

Catchment Area: C101

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
5/31/2023	DMH 10048		dry	none	no		no							No Evidence
5/31/2023	DMH 10048		dry	none	yes									Under Investigation
5/31/2023	DMH 10048	DMH10043	trickling	none	no		yes	clear	0.1	0.25	0	no		No Evidence
5/31/2023	DMH 348		dry	none	yes									Under Investigation
5/31/2023	DMH 348		dry	sewage	no		no							No Evidence
5/31/2023	DMH 348		dry	sewage	no		no							No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C107

Catchment Area: C107

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
5/31/2023	DMH 304	UNNAMED CB	heavy	none	no		yes	clear	0.1	0.25	0	no		No Evidence
5/31/2023	DMH 304	DMH306	heavy	none	no		yes	clear	0	0.25	0	no		No Evidence
5/31/2023	DMH 304	DMH301	heavy	none	no		yes	clear	0.1	0.25	0	no		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C108

Catchment Area: C108

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
5/31/2023	DMH 3940		dry	none	no		no							No Evidence
5/31/2023	DMH 3941		standing water	none	no		no							No Evidence
5/31/2023	DMH 3942		standing water	none	no		no					no		No Evidence
5/31/2023	DMH 3942		standing water	none	no		no					no		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C109

ARCADIS

Catchment Area: C109

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
5/31/2023	DMH 3955		dry	none	yes									Under Investigation
5/31/2023	DMH 3955	CB3952	dry	none	no		no							No Evidence
5/31/2023	DMH 3955	CB354	dry	none	no		no							No Evidence
5/31/2023	DMH 3955	DMH3961	trickling	none	no		yes	clear	0.1	0.25	0	no		No Evidence
5/31/2023	DMH 3961		dry	none	yes									Under Investigation
5/31/2023	DMH 3961		dry	none	no		no							No Evidence
5/31/2023	DMH 3961		dry	none	no		no							No Evidence
5/31/2023	DMH 3961		dry	none	no		no							No Evidence
5/31/2023	DMH 3999		dry	none	yes									Under Investigation
5/31/2023	DMH 3999		wet	none	yes									Under Investigation
5/31/2023	DMH 3999		dry	none	no		no							No Evidence
5/31/2023	DMH 3999		dry	none	no		no							No Evidence
5/31/2023	DMH 4007		trickling	none	no		no							Under Investigation
5/31/2023	DMH 4029		dry	none	no		no							No Evidence
5/31/2023	DMH 4029		dry	none	yes									Under Investigation
5/31/2023	DMH 4029	DMH4024	trickling	none	no		yes	clear	0.2	0.25	0	no		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C110

Catchment Area: C110

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
5/31/2023	DMH 3976		dry	none	yes									Under Investigation
5/31/2023	DMH 3976		dry	none	no		no							No Evidence
5/31/2023	DMH 3976		dry	none	no		no							No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C217

ARCADIS

Catchment Area: C217

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
4/6/2023	DMH5496	DMH5494	Steady	None	No		Yes		0	0.3	0	No		
4/6/2023	DMH5503	DMH5502	Steady	None	No		Yes		0	0.5	0	No		

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C218

Catchment Area: C218

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
4/6/2023	DMH5467	DMH5514	Steady		No		Yes		0	0.25	0	No		

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C220

ARCADIS

Catchment Area: C220

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/28/2022	CB5624.1		None Dry	None	No		No					No		
7/28/2022	CB5624.1		None Dry	None	No		No					No		
8/1/2022	DMH5522		None - Dry	None	Yes	No								No Evidence
8/1/2022	DMH5522		Trickle	None	No	NA	Yes	Cloudy	0	0.15	0	No		No Evidence
8/1/2022	DMH5533		Trickle	None	No	NA	Yes	Clear	0.05	0.2	0	No		No Evidence
7/28/2022	DMH6814		Trickle	None	No		Yes	Clear	0.1	0.15	0	No		
8/1/2022	DMH6829		None - Dry	None	Yes	No								No Evidence
8/1/2022	DMH6829		None - Dry	None	Yes	No	NA							No evidence
8/1/2022	DMH6829		None - Dry	None	No	NA								No Evidence
8/1/2022	DMH6829		None - Dry	None	Yes	No	NA							No Evidence
8/1/2022	DMH6829		None - Dry	None	Yes	No								No Evidence
7/28/2022	DMH6830		Trickle	None	No		Yes	Little Cloudy	0	0.2	0	No		
8/1/2022	DMH6830		None - Dry	None	No									No Evidence
8/1/2022	DMH6830		None - Dry	None	Yes	No								No Evidence
8/1/2022	DMH6830		None - Wet	None	Yes	No								No Evidence
7/28/2022	DMH6840		Running	None	No		Yes	Clear	0	0.6	0			

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C223

Catchment Area: C223

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
4/6/2023														
4/6/2023														
4/6/2023	Unnamed		Steady	None	No		Yes		0	0.25	0	No		

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C3108

ARCADIS

Catchment Area: C3108

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/3/2022	DMH3332.2		None - Dry	None	Yes	No	NA							No Evidence

Catchment Area: C3109

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/3/2022	DMH143		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3324		None - Dry	None	No	NA								No Evidence
11/3/2022	DMH3324		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3324		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3332.2		None - Dry	None	No									No Evidence
11/3/2022	DMH3332.2		None - Dry	Nons	Yes	No	NA							No Evidence
11/3/2022	DMH3389		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3389		None - Dry	None	Yes	No								No Evidence
11/3/2022	DMH3389.1		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3389.1		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3389.1		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3389.1		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3389.1		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH3389.1		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH3908		None - Dry	None	No									No Evidence
11/2/2022	DMH3908		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH3908		None - Dry	None	Yes	No								No Evidence
11/2/2022	DMH3911.1		None - Dry	None	No									No Evidence
11/2/2022	DMH3911.1		None - Dry	Nons	Yes	No	NA							No Evidence
11/2/2022	DMH3911.1		None - Dry	None	Yes	No	NA							No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C3109

Catchment Area: C3109

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/2/2022	DMH3916.1		None - Dry	None	No									No Evidence
11/2/2022	DMH3916.1		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH3916.1		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH3916.3		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH3916.6		None - Dry	None	No									No Evidence
11/2/2022	DMH3916.6		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH3916.6		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH7669.1		None - Dry	None	No									No Evidence
11/3/2022	DMH7669.1		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH7669.1		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH7669.1		None - Dry	None	No	No								No Evidence
11/3/2022	DMH7669.1		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH7669.1		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH7669.2		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH7669.2		None - Dry	None	Yes	No	NA							No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C3112

ARCADIS

Catchment Area: C3112

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/2/2022	DMH3916.3		None - Wet	None										No Evidence
11/28/2022	DMH7649		None-Dry	None	Yes	No	NA							No Evidence
11/21/2022	DMH7649		None - Dry	None	No	NA								No Evidence
11/21/2022	DMH7661		None	None	No	N/A	No					No		No Evidence
11/21/2022	DMH7661		None-Dry	None	Yes	No	NA							No Evidence
11/21/2022	DMH7661		None - Dry	None	Yes	No	NA							No Evidence
11/21/2022	DMH7669		None - Dry	None	Yes									No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C3115

ARCADIS

Catchment Area: C3115

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/21/2022	DMH778.1		None - Dry	None	No									No Evidence
11/21/2022	DMH7783		None - Dry	None	Yes									No Evidence
11/21/2022	DMH7783		None - Dry	None	Yes	No	NA							No Evidence
11/21/2022	DMH7783		None - Dry	None	Yes	No								No Evidence
11/21/2022	DMH7783		Yes-Trickle/ Run	None	No	N/A	Yes	Clear	1	0.2	0	No		No Evidence
11/21/2022	DMH7783		None - Wet	None	Yes	Yes	Yes	Clear	0	0.2	0	No		No Evidence
11/21/2022	DMH7783		None - Dry	None	Yes									No Evidence
11/21/2022	DMH7783		None-Dry	None	Yes	No	NA							No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C3116

ARCADIS

Catchment Area: C3116

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/21/2022	DMH7669		None - Dry	None	No	NA								No Evidence
11/21/2022	DMH7712		Yes-Running	None	No	N/A	Yes	Clear	0	0.2	0	No		No Evidence
11/21/2022	DMH7712		Yes-Trickling	None	No	N/A	Yes	Clear	0	0.4	0	No		No Evidence
11/21/2022	DMH7715		Yes-Trickling	None	No	N/A	Yes	Clear	0	0.15	0			No Evidence
11/21/2022	DMH7715		Yes-Running	None	No	N/A	Yes	Clear	0	0.15	0	No		No Evidence
11/21/2022	DMH7720		None - Dry	None	No	NA								No Evidence
11/21/2022	DMH7720		Yes-Trickling	None	No	N/A	Yes	Clear	0	0.15	0	No		No Evidence
11/21/2022	DMH7720		None - Wet	None	No	NA								No Evidence
11/21/2022	DMH7725		None-Dry	None	No	N/A	No							No Evidence
11/21/2022	DMH7725		None-Dry	None	No	N/A	No							No Evidence
11/21/2022	DMH7728		None-Dry	None	No	N/A	N/A							No Evidence
11/21/2022	DMH7728		None-Dry	None	Yes	No	NA							No Evidence
11/21/2022	DMH7728		None - Dry	None	Yes	No								No Evidence
11/21/2022	DMH7728		None - Dry	None	Yes	No								No Evidence
11/21/2022	DMH7736		None-Dry	None	No	N/A								No Evidence
11/21/2022	DMH7736		None - Dry	None	Yes	No								No Evidence
11/21/2022	DMH7736		None - Dry	None	Yes									No Evidence
11/21/2022	DMH7788		None-Dry	None	No	N/A								No Evidence
11/21/2022	DMH7788		None-Dry	None	Yes	No	NA							No Evidence

City of Fitchburg, Massachusetts
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Dry Weather Catchment Investigations

Catchment Area C3121

Catchment Area: C3121

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/13/2023	CB on		Yes-Running	None	No	N/A								Under Investigation

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Catchment Area C315

ARCADIS

Catchment Area: C315

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/21/2022	DMH7778.1		None-Dry	None	No	N/A								No Evidence

City of Fitchburg, Massachusetts
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Catchment Area C330

ARCADIS

Catchment Area: C330

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
1/10/2023														
1/11/2023	CMH115		None-Dry	None	No	N/A	No							No Evidence
1/11/2023	CMH115		Yes-Trickling	None	No	N/A	Yes	Clear	0.8	1	0	No		Under Investigation
1/11/2023	CMH115	CB846	Running	None	No		Yes	Clear	0	0.25	0	No		
1/10/2023	DMH	DMH3376	Steady	None	No		Yes	Clear	0	0.25	0	No		No Evidence
1/10/2023	DMH10288						No							
1/11/2023	DMH10292		No flow/ Stagnant	None	Yes	Dry	No							
1/10/2023	DMH3293			None			No							
1/10/2023	DMH3356		Steady	None	No		Yes	Clear	0	0.25	0			No evidence
1/10/2023	DMH3363		Steady	None	No		Yes	Clear	0	0.25	0	No		No Evidence
1/10/2023	DMH3376		Slow but steady	None	No		Yes	Clear	0	0.25	0	No		No Evidence
10/20/2022	DMH3532		None-Dry	None	Yes	No	N/A					N/A		No Evidence
10/20/2022	DMH3532		None-Dry	None	Yes	No	N/A					N/A		No Evidence
10/20/2022	DMH3587		None-Dry	None	No	N/A	N/A							No Evidence
10/20/2022	DMH3587		None-Dry	None	Yes	No								No evidence
10/20/2022	DMH3587		None-Dry	None	Yes	No								No evidence
10/20/2022	DMH3627		None-Dry	None	Yes	No								No evidence
10/20/2022	DMH3627		None-Dry	None	Yes	No								No evidence
10/20/2022	DMH3651		None-Dry	None	Yes	No								No evidence
10/20/2022	DMH3651		None-Dry	None	Yes	No								No evidence

City of Fitchburg, Massachusetts
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Catchment Area C330

ARCADIS

Catchment Area: C330

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
10/20/2022	DMH3651		None-Dry	None	Yes	No								No Evidence
10/20/2022	DMH3652		None-Wet	None	Yes	No								No evidence
1/10/2023	DMH733	DMH10279	Steady	None	No		Yes	Clear	0	0.25	0	No		No Evidence
1/11/2023	DMH795		Running	None	No	No	Yes	Clear	0	0.5	0	No		Under Investigation
1/10/2023	DMH841		Yes-Trickling	None	No	N/A	Yes	Clear	0	0.25	0	No		No Evidence
1/10/2023	DMH841		Yes-Trickling	None	No	N/A	Yes	Clear	0.2	0.25	0	No		Under Investigation
1/11/2023	DMH866	UnnamedDMH	Flowing in main line	None			Yes		0.01	0.25	0			
1/11/2023	DMH866		None-Dry	None	Yes	No	Dry							No Evidence
1/11/2023	DMH866		None-Dry	None	Yes	No	No							

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Catchment Area C333

ARCADIS

Catchment Area: C333

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/12/2022	CB4215		None-Dry	None	No	N/A	No							No Evidence
7/12/2022	CB7069.1		No	None	No	N/A	No							No Evidence
7/27/2022	CMH138		None Dry	None	Yes	No	No					No		No evidence
7/27/2022	CMH138		None Wet	None	Yes	No	NA					No		No evidence
7/12/2022	DMH		None	None	No	N/A	No							No Evidence
7/12/2022	DMH4148		None Dry	None	No		No					No		
7/11/2022	DMH4148.1		Running	None	No		Yes	Clear	0.05	0.15	0.15	No		No Evidence
7/11/2022	DMH4148.1		None Dry	None	No		No					No		No Evidence
7/27/2022	DMH4148.1		None	None	Yes		No					No		No evidence
7/11/2022	DMH4167		Trickle	None	No		No							
7/11/2022	DMH4167		None Dry	None	No		No					No		No Evidence
7/11/2022	DMH4167		None Dry	None	No		No							No Evidence
7/11/2022	DMH4167		None Dry	None	No		No					No		No Evidence
7/11/2022	DMH4167		Running	None	No	N/A	No					No		Other - See
7/11/2022	DMH4167		No	None	No	N/A	No					No		No Evidence
7/28/2022	DMH7022.1		None - Dry	None	No	NA								No Evidence
7/27/2022	DMH7022.2		None Dry	Musty/	Yes	Yes	Yes	Murky	9	8	0	No		Problem
7/27/2022	DMH7022.4		None - Dry	None	Yes	No	NA							No evidence
7/12/2022	DMH7052		Trickling	None	No		Yes	Clear	0.05	0.1	0.25	No		
7/12/2022	DMH7052		None Dry	None								No		

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Catchment Area C333

ARCADIS

Catchment Area: C333

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/12/2022	DMH7052		None Dry	None	No		No					No		
7/12/2022	DMH7052		Trickling	None	No		Yes	Clear	0.05	0.2	0	No		No Evidence
7/27/2022	DMH7058		Trickle	None	No	NA	Yes	Clear	11	1.5	0	No		Problem
7/27/2022	DMH7058		None - Dry	None	No									Cleared
7/27/2022	DMH7058		None - Dry	None	Yes	No	NA							No Evidence
7/27/2022	DMH7058		None - Dry	None	Yes	No	NA							No Evidence
7/27/2022	DMH7058		None - Dry	None	No									No Evidence
7/28/2022	DMH7063		None	None	Yes	No	No					No		
7/27/2022	DMH7072		Trickle	Sewage	No		Yes	Musty	12	3	0	No		

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Catchment Area C336

ARCADIS

Catchment Area: C336

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/14/2023	C336		None-Dry	None	Yes	No	No					No		No Evidence
2/13/2023	DMH2422		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH2422		None-Dry	None	Yes	No	No					No		No Evidence
2/13/2023	DMH2422		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH2422		None-Dry	None	Yes	No	No					No		No Evidence
2/13/2023	DMH2422		None-Dry	None	Yes									Under Investigation
2/14/2023	DMH2422		None-Dry	None	Yes	No	No					No		No Evidence
2/20/2023	DMH2422		None-Dry	None	No	N/A	No					No		No Evidence
2/20/2023	DMH2422		Flow-Trickling	None	No	N/A	Yes	Clear	0.1	0.35	0	No		No Evidence

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Catchment Area C342

Catchment Area: C342

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
6/21/2023		DMH7275	Running	Decompos										
6/21/2023			Dry											
6/21/2023			Dry											
6/21/2023														
6/21/2023														
6/22/2023	CB7227		None	None	Yes	No	No							
6/22/2023	DMH1443		Trickle	None		No	Yea	Cloudy	0.1	0.5	0			
6/22/2023	DMH4190	DMH4192	Trickle	None	No		Yes	Clear	3.5	0.25	0	No		
6/22/2023	DMH4202	DMH4199	Running	None	No		Yes		1.5	0.75	0			
6/22/2023	DMH4315		Running	None	No		Yes	Clear	0.1	0.4	0	No		
6/22/2023	DMH7173	DMH7176	Running	None	No		Yes	Cloudy	3.5	1.8	0			
6/22/2023	DMH7173	Unnamed from Elmwood	Trickle	None	No		Yes	Clear	0.2	0.25	0	No		
6/22/2023	DMH7173	DMH7176	Running				Yes	Cloudy	3.5	1.8	0			
6/22/2023	DMH7173	Unnamed from Elmwood	Trickle				Yes		0.2	0.25	0			
6/21/2023	DMH7225	DMH7238	Running	None	No		Yes	Clear	2.5	0.75	0	No		
6/21/2023	DMH7225	DMH7230	Trickle/slow flow	None	No		Yes	Clear	5.5	0.3	0	No		
6/21/2023	DMH7225		Dry		Yes									Under Investigation
6/21/2023	DMH7225	CB7228	Dry	None	Yes									
6/21/2023	DMH7225	CB7229	Dry	None	Yes									
6/21/2023	DMH7225		Dry	None	No		No					No		No evidence

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Catchment Area C342

ARCADIS

Catchment Area: C342

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
6/22/2023	DMH7225	CB7229	None	None	Yes	No	No							
6/21/2023	DMH7225	DMH7230	Running				Yes		5.5	0.3	0			
6/21/2023	DMH7225	DMH7238	Running				Yes		2.5	0.75	0			
6/22/2023	DMH7228	CB7228	None	None	Yes	No	No							
6/21/2023	DMH7244	DMH7261	Running	None	No		Yes	Clear	4	0.8	0	No		
6/21/2023	DMH7244	DMH7246	Running	None	No		Yes	Clear	0.6	0.6	0	No		
6/21/2023	DMH7244	DMH7261	Running				Yes		4	0.8	0			
6/21/2023	DMH7244	DMH7246	Running				Yes		0.6	0.7	0			
6/21/2023	DMH7272		Running	Decompos	No		No					No		
6/21/2023	DMH7275		Running	None	No		No					No		
6/21/2023	DMH7275	Unnamed DMH	Running											
6/21/2023	DMH7281	DMH7286	Running	Musty	no		yes	clear	3	0.3	0	no		Under investigation
6/21/2023	DMH7281	Unnamed from Jeannet	Running	Musty	no		yes	clear	4.5	0.6	0	no		Under investigation
6/21/2023	DMH7281	DMH7286	Running	Yes	No		Yes		3	0.3	0	No		
6/21/2023	DMH7281	Unnamed from Jeannet	Running	Yes at first	No		Yes		4.5	0.6	0	No		
6/21/2023	Unnamed	DMH7275	Trickle	None										Under Investigation
6/21/2023	UNNAMED	DMH7275	Trickle											

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Catchment Area C347

Catchment Area: C347

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/13/2023	C347		None-Dry	None	Yes							No		Under Investigation

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Catchment Area C348

ARCADIS

Catchment Area: C348

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
10/12/2022	DMH		None-Dry	None	Yes	No	N/A	N/A				No		No Evidence
2/13/2023	DMH214		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH214		None-Dry	None	Yes	No						No		No Evidence
2/13/2023	DMH214		None-Dry	None	No	No	No					No		No Evidence
2/13/2023	DMH221		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH221		None-Dry	None	Yes	No	No					No		No Evidence
2/13/2023	DMH221		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH221		None-Dry	None	Yes	No	No					No		No Evidence
10/12/2022	DMH8280		None-Dry	None	Yes	No	N/A					N/A		No Evidence
10/13/2022	DMHSTPAU		None - Dry	None	Yes	No	No							No Evidence
10/13/2022	DMHSTPAU		None - Dry	None	Yes	No	No							No Evidence

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Catchment Area C349/350

ARCADIS

Catchment Area: C349/350

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/14/2023	DMH200													

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Catchment Area C350

Catchment Area: C350

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/13/2023	DMH191		None-Dry	None	No	No	No					No		No Evidence
2/13/2023	DMH191		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH191		None-Dry	None	Yes	No	No					No		No Evidence
2/13/2023	DMH191		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH191		None-Dry	None	Yes	No	No					No		No Evidence
2/14/2023	DMH191		None-Dry	None	Yes	No	N/A					No		No Evidence
2/13/2023	DMH200		None-Dry	None								No		Under Investigation
2/14/2023	DMH200		None-Dry	None	Yes	No	No					No		No Evidence

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Catchment Area C351

Catchment Area: C351

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
10/19/2022	DMH3563		None-Dry	None	Yes									Other - See

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Catchment Area C351/352

ARCADIS

Catchment Area: C351/352

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/13/2023	DMH170		None-Wet	None	No	N/A	No							Under Investigation

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Catchment Area C352

ARCADIS

Catchment Area: C352

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/13/2023	DMH164		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH164		None-Dry	None	Yes	No	No					No		No Evidence
2/13/2023	DMH164		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH164		None-Dry	None	Yes	No	No					No		No Evidence
2/13/2023	DMH164		None-Dry	None	No	No	No					No		No Evidence
2/13/2023	DMH197		None-Standing	None	Yes									Under Investigation
2/14/2023	DMH197		None-Standing	None	Yes	No	No					No		No Evidence

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Catchment Area C354

ARCADIS

Catchment Area: C354

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/3/2022	DMH3542		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH3624		None - Dry	None	No									No Evidence

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Catchment Area C355

Catchment Area: C355

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
6/22/2023	DMH2795		None, moist	None	No		No					No		

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Catchment Area C377

ARCADIS

Catchment Area: C377

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/13/2023	DMH416		None-Dry	None	Yes							No		Under Investigation
2/13/2023	DMH416		None-Dry	None	Yes							No		Under Investigation
2/14/2023	DMH416		None-Dry	None	Yes	No	No					No		No Evidence
2/14/2023	DMH416		None-Dry	None	Yes	No	No					No		No Evidence
2/14/2023	DMH417		None-Dry	None	Yes	No	No					No		No Evidence
2/13/2023	DMH417		None-Dry	None	Yes									Under Investigation

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Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C378

ARCADIS

Catchment Area: C378

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/20/2023	DMH2114		Flow-Running	None	No	N/A	Yes	Clear	0	0.3	0	No		No Evidence
2/20/2023	DMH2114		None-Dry	None	No	N/A	No					No		No Evidence
2/20/2023	DMH2114		None-Dry	None	Yes	No						No		No Evidence
2/20/2023	DMH2120		None-Dry	None	No	N/A	No					No		No Evidence
2/20/2023	DMH2120		None-Dry	None	Yes	No	N/A							No Evidence
2/20/2023	DMH2120		None-Dry	None	Yes	No	N/A					No		No Evidence
2/20/2023	DMH2131		Flow-Running	None	No	N/A	Yes	Clear	0	0.2	0	No		No Evidence
2/20/2023	DMH2131		None-Dry	None	Yes	No	N/A					No		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C384

ARCADIS

Catchment Area: C384

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/20/2023	DMH2615		None-Dry	None		No	No					No		No Evidence
2/20/2023	DMH2615		None-Dry	None	Yes	No	No							No Evidence
2/20/2023	DMH2615		None-Dry	None	Yes	No	N/					N/A		No Evidence
2/20/2023	DMH2615		None-Dry	None	No	N/A	N/A					No		Under Investigation

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C391/393

ARCADIS

Catchment Area: C391/393

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/20/2023	DMH2422		None-Dry	None	Yes	No	N/A					No		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C394

Catchment Area: C394

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/20/2023	DMH2499		Flow-Trickling	None	No	N/A	Yes	Cloudy	0.1	0.3	0.6	No		
2/20/2023	DMH2499		None-Dry	None	No	N/A	N/A					No		No Evidence
2/20/2023	DMH2501		None-Dry	None	No	N/A	N/A					No		No Evidence
2/20/2023	DMH2505		None-Dry	None	No	N/A	N/A					No		No Evidence
2/20/2023	DMH2505		None-Dry	None	No	N/A	N/					N/A		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C394/395

ARCADIS

Catchment Area: C394/395

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/20/2023	DMH2501		Yes-Intermittent	None	No	N/A	Yes	Cloudy	0.1	0.35	1	No		Under Investigation

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C404

Catchment Area: C404

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/20/2022	C404		Running	None	No	N/A	No							Suspect
7/20/2022	DMH9304		Running	None	No		Yes	Clear	2	0.25	0	Yes	242000	Problem
9/30/2022	DMH9304		Running	None	No		Yes	Clear	1	0.5	0	Yes		
9/30/2022	DMH9307		Runninf	None	No		Yes	Clear	0	0.2	0	Yes		No Evidence
9/30/2022	DMH9313		Running	None	No		Yes	Clear	0.2	0.15	0	Yes		No Evidence
9/30/2022	DMH9316		Running	None	No		Yes	Clear	0.4	0.2	0	Yes		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C405

Catchment Area: C405

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
4/6/2023	DMH1423		Running	None	No		Yes		0	0.5	0	No		
4/6/2023	DMH1573	DMH5448	Running		No		Yes		0.1	0.5	0	No		
4/6/2023	Unnamed		Trickling		No		No							
4/6/2023	Unnamed		Steady	None	No		Yes		0	0.5	0	No		
4/6/2023	Unnamed		None- Dry		No									

City of Fitchburg, Massachusetts
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Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C432

Catchment Area: C432

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
8/15/2022	DMH7452		None Dry	None	No		No					No		

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C438

ARCADIS

Catchment Area: C438

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
9/29/2022	DMH6159		Trickle	None	No	NA	Yes	Cloudy	4	1	0	Yes	64882	Problem
9/29/2022	DMH6159		None - Dry	None	Yes	No	No							No Evidence
9/29/2022	DMH6662		None - Dry	None	No	NA	NA							No Evidence
9/29/2022	DMH6662		None - Dry	None	Yes	No	No							No Evidence
9/29/2022	DMH6662		None - Dry	None	Yes	No	No							No Evidence
10/13/2022	DMHNORVA		None - Dry	None										No Evidence
10/13/2022	DMHNORVA		None - Dry	None	Yes	No	NA							No Evidence
10/13/2022	DMHSTPAU		None - Dry	None	No	NA								No Evidence
10/13/2022	DMHSTPAU		None - Dry	None	No	NA								No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C442

ARCADIS

Catchment Area: C442

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/27/2022	C466		Dry	None	No	NA	No							No Evidence
9/29/2022	CB3854		None - Dry	None	No	NA	No							No Evidence
9/29/2022	CB3854		Running	None	No		Yes	Clear	0.35	0.4	0	No		No Evidence
7/28/2022	CB7467		Flow - Running	None	No	NA	No							Other - See
7/28/2022	CB7502		None - Dry	None	No	NA	No							No Evidence
7/28/2022	CB7640		Dry	None	No	NA	No							No Evidence
8/1/2022	CHM55		Trickle	Sewage	No		No							Problem
8/15/2022	CMH		None Dry	None	No		No					No		
8/15/2022	CMH		Trickle	None	No		Yes	Clear	0	0.15	0	No		
8/1/2022	CMH231		Trickle	Sewage	No		No							Problem
8/1/2022	CMH231		Trickld	Sewage	No		No							Problem
8/1/2022	CMH56		Trickle	Sewage			No							Problem
8/15/2022	Common		Trickling	None			No					No		
8/15/2022	Common		None Dry	None	Yes	No	No					No		
7/27/2022	DMH3828		None - Dry	None	No	No	No							No Evidence
7/27/2022	DMH3828		None - Dry	None	No	NA	No							No Evidence
7/27/2022	DMH3828		None - Dry	None	No	NA	No							No Evidence
8/15/2022	DMH3828		None Dry	None	Yes	No	No					No		
8/15/2022	DMH3828		None dry	None	Yes	No	No					No		
9/29/2022	DMH3838		None - Dry	None	Yes									No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
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Catchment Area C442

ARCADIS

Catchment Area: C442

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
8/15/2022	DMH3839		Trickle	None	No		Yes	Cloudy	0.2	0.5	0	No		No Evidence
9/29/2022	DMH3848		None - Dry	None	Yes									No evidence
9/29/2022	DMH3848		None - Dry	None	No	NA								No evidence
10/20/2022	DMH3848		None - Wet	None	No									No evidence
7/27/2022	DMH3856		Flow - Running	Musty	No	NA	Yes	Clear	0.05	0.25	0	No		Other - See
7/27/2022	DMH7452		Flow - Trickling	None	No	NA	No	Clear	0	0.15	0	No		No Evidence
7/27/2022	DMH7452		Flow - Running	None	No	NA	No							Other - See
8/15/2022	DMH7452		None Dry	None	No		No					No		
7/28/2022	DMH7461		Flow - Running	None	No	NA	No							Other - See
7/27/2022	DMH7494		Flow - Trickling	None										Other - See
7/28/2022	DMH7494		Flow - Trickling	None	Yes	Yes	Yes	Clear	0.1	0.25	0	No		No Evidence
7/28/2022	DMH7504		None - Dry	None	No	NA	No							No Evidence
7/28/2022	DMH7509		None	None	No	NA	No							No Evidence
7/28/2022	DMH7509		Dry	None	No	NA	NA							No Evidence
7/28/2022	DMH7509		Dry	None	No	NA								No Evidence
7/27/2022	DMH7548		None - Dry	None	No	NA	No							No Evidence
7/27/2022	DMH7548		None - Dry	None	Yes	No								No Evidence
7/27/2022	DMH7548		None - Dry	None	No	NA	No							No Evidence
7/27/2022	DMH7554		Flow - Running	Musty	No	NA	Yes	Clear	0.5	0.2	0.15	No		Other - See
7/27/2022	DMH7554		Dry	None	No	NA	No							No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
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Dry Weather Catchment Investigations

Catchment Area C442

ARCADIS

Catchment Area: C442

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/27/2022	DMH7554		None - Dry	None	No	NA	No							No Evidence
7/27/2022	DMH7558		Dry	None	No	NA	NA							Other - See
7/27/2022	DMH7558		Flow - Gushing	None	No	NA	No							Other - See

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
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Dry Weather Catchment Investigations

Catchment Area C444

ARCADIS

Catchment Area: C444

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/11/2022	CB1970		None	None										
7/11/2022	CB1971		Running	None										
7/27/2022	CB1971		Running	Musty/	No	NA		Clear	7	0.4	0	No		Problem
7/11/2022	CB1972		None	None	No		No					No		
7/11/2022	CB1974		None	None	No		No					No		
7/20/2022	CB5236		Standing Water	None	No	N/A	N/A					No		No Evidence
7/11/2022	CB5354		Standing Water	None	No		No					No		
7/20/2022	DMH		None-Wet	None	1	No								Other - See
7/27/2022	DMH1000		Dry	None	No	NA	No							No Evidence
7/20/2022	DMH5119		None	None	Yes	No	No					No		
7/21/2022	DMH5119		Running	None	No	N/A	No							Other - See
7/20/2022	DMH5123		Running	None	No		Yes	Clear	0.05	0.15	0	No		
7/11/2022	DMH5155		Running	None	No		Yes	Clear	0.05	0	0	No		
7/11/2022	DMH5155		None Dry	None	No		No					No		
7/11/2022	DMH5155		None-Dry	None	No	N/A	No					No		No Evidence
7/20/2022	DMH5160		None Dry	None	No		No					No		
7/20/2022	DMH5160		Running	None	No		Yes	Clear	0.05	0.1	0	No		
7/20/2022	DMH5160		Yes	None	No	N/A	No							No Evidence
7/11/2022	DMH5162		Running	None	No		No							
7/11/2022	DMH5162		None Dry	None	No		No					No		

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
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Dry Weather Catchment Investigations

Catchment Area C444

ARCADIS

Catchment Area: C444

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/11/2022	DMH5177		Gushing	None	No		Yes	Clear	0.05	0	0	No		
7/11/2022	DMH5177		Running	None	No		Yes	Clear	3	0.5	0	No		
7/20/2022	DMH5177		Running	None	No		Yes	Clear	1.5	0.25	0	Yes		
7/27/2022	DMH5177		Running	None	No	NA		Clear	7	0.4	0	No		Problem
7/20/2022	DMH5237		None Wet	None	Yes	No	No					No		No Evidence
7/11/2022	DMH5275		Trickle	None			Yes	Clear	0.05	0.25	0	No		No evidence
7/11/2022	DMH5275		None	None	No									No Evidence
7/28/2022	DMH5316		None	None	No	NA	No							No Evidence
7/28/2022	DMH5316		No	None	No	NA								No Evidence
7/28/2022	DMH5316		None	None	No	NA								No Evidence
7/28/2022	DMH5316		Flow - Running	None	No	NA	No							No Evidence (2020)
7/20/2022	DMH5325		Trickle	None	No		Yes	Clear	0.05	0.15	0	No		
7/20/2022	DMH5325		None Wet	None	Yes	No	No							
7/11/2022	DMH5351		None wet	None	Yes	No						No		
7/11/2022	DMH5351		None Dry	None	No		No					No		
7/11/2022	DMH5351		Standing Water	None	Yes	No						No		
7/11/2022	DMH5353		None Dry	None	No		No					No		
7/20/2022	DMH5366		None	None	Yes	No	No					No		
7/11/2022	DMH5384		None Dry	None	No		No					No		No Evidence
7/11/2022	DMH5384		None Dry	None	No		No					No		No Evidence

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Dry Weather Catchment Investigations

Catchment Area C444

ARCADIS

Catchment Area: C444

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/11/2022	DMH5384		None Dry	None	No		No					No		No Evidence
10/12/2022	DMH5391		None	None	Yes	No	N/A	N/A				N/A		No Evidence
10/12/2022	DMH5391		None	None	Yes	No	N/A	N/A				N/A		No Evidence
7/11/2022	DMH5399		Standing Water	None			No					No		
10/11/2022	DMH6025	DMH6030	Yes-Trickling	None	No	N/A	Yes	Clear	0.5	0.2	0	No		No Evidence
10/11/2022	DMH6025		Yes-Trickling	None	No	N/A	Yes	Clear	0.2	0.4	0	No		No Evidence
8/2/2022	DMH6025.1		Running	None	No		Yes	Clear	0.6	0.15	0	No		No evidence
10/11/2022	DMH6036	DMH6037	Yes-Trickling	None	No	N/A	Yes	Clear	0	0.3	0	No		No Evidence
9/29/2022	DMH6042		Running	None	No		Yes	Clear	0	0	0	No		No Evidence
9/29/2022	DMH6042		Trickle	None										No Evidence
9/29/2022	DMH6044		None - Dry	None	Yes									No Evidence
9/29/2022	DMH6044		Trickle	None	No		Yes	Cloidy	0	0.4	0	No		No Evidence
7/20/2022	DMH6051		None Wet	None	Yes	Yes	Yes	Clear	0.4	0.2	0	No		
7/20/2022	DMH6051		None	None	Yes	No	No					No		
7/11/2022	DMH6800		Trickle	None	No		No					No		
7/11/2022	DMH6800		None	None	No		No					No		
7/11/2022	DMH6810		Trickle	None	No		No					No		
7/11/2022	DMH6810.1		Trickle	None	No		No					No		
7/11/2022	DMH8815		Running	None								No		

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Catchment Area C444

ARCADIS

Catchment Area: C444

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
7/11/2022	DMH8815		None Dry	None	No		No					No		
7/11/2022	DMH8815		None Dry	None	No		No					No		
7/11/2022	DMH8815		None	None	No		No					No		
7/27/2022	DMH981		Dry	None	Yes		No							No Evidence
7/27/2022	DMH981		None	None	No	NA	No							No Evidence
7/27/2022	DMH983		None	None	No	NA	NA							No Evidence
7/28/2022	DMH997		Dry	None	No	NA	No							No Evidence

City of Fitchburg, Massachusetts
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Dry Weather Catchment Investigations

Catchment Area C457

ARCADIS

Catchment Area: C457

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
8/15/2022	CMH242		None Dry	None	Yes	No	No					No		
8/15/2022	CMH242		None Dry	None	Yes	No	No					No		
8/15/2022	CMH242		Running	None	No		Yes	Clear	0	0.15	0	No		
8/15/2022	CMH242		None - Dry	None	No	NA	No							No Evidence
10/21/2022	DMH1673.1		Trickling	Musty	No		Yes	Clear	5	0.75	0.05	No		Problem
11/3/2022	DMH1673.1		None - Dry	None	Yes	No	NA							No Evidence
8/15/2022	DMH4956		None Dry	None	No		No					No		
8/15/2022	DMH4956		None Dry	None	Yes	No	No					No		
8/15/2022	DMH4956		None Dry	None	Yes	No	No					No		
8/15/2022	DMH4960.1		None Dry	None	No		No					No		
8/15/2022	DMH4960.1		None Dry	None	No		No					No		
8/15/2022	DMH4960.1		None Dry	None	Yes	No	No					No		
8/15/2022	DMH4960.1		None Dry	None	Yes	No						No		
10/12/2022	DMH4969		None	None	Yes									No Evidence
10/12/2022	DMH4969		None-Wet	None	Yes									Problem
10/12/2022	DMH4969		None-Dry	None	Yes									No Evidence
10/12/2022	DMH4971		None-Dry	None	No		N/A					N/A		No Evidence
10/12/2022	DMH4971		None-Wet	None	Yes									Problem
10/12/2022	DMH4971		None-Dry	None	No	N/A								Other - See
10/12/2022	DMH4981		Trickling	Musty	No		Yes		1.5	1.5	0	No		Suspect

City of Fitchburg, Massachusetts
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Dry Weather Catchment Investigations

Catchment Area C457

ARCADIS

Catchment Area: C457

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
10/13/2022	DMH4981		None - Dry	None	Yes	No	NA							No Evidence
10/13/2022	DMH4981		None - Dry	None	Yes	No	NA							No Evidence
10/13/2022	DMH4981		None - Dry	None	Yes	No	NA							No Evidence
10/12/2022	DMH4998		Trickling	Musty	No	N/A	Yes	Clear	7.5	2	0	No		Suspect
10/12/2022	DMH4998		None-Dry	Musty	Yes		No					No		No Evidence
10/12/2022	DMH5014		None-Dry	Musty	No	N/A	N/A					No		No Evidence
10/12/2022	DMH5014		Trickling	Musty	No		Yes	Clear	9	2	0	No		Suspect
10/13/2022	DMH5014		None-Dry	Musty	Yes									No Evidence
10/12/2022	DMH5025		Trickling	Musty	No		Yes	Clear	7	1.5	0	No		Suspect
11/2/2022	DMH5025		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH5025		None - Dry	None	Yes	No	NA							No Evidence
11/3/2022	DMH5025		None - Dry	None	Yes	No								No Evidence
11/3/2022	DMH5025		None - Dry	None	Yes									No Evidence
11/3/2022	DMH5025		None - Dry	None	No									No Evidecne
10/21/2022	DMH6058.1		Yes-Trickling	None	No		Yes	Clear	7	1	0	No		Problem
11/3/2022	DMH6058.1		None - Dry	None	Yes	No	NA							No Evidence
11/2/2022	DMH6058.1		None - Dry	None	No									No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C525

Catchment Area: C525

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/20/2023	DMH3094		Flow-Running	None	No	N/A	Yes	Clear	0	0.3	0	No		No Evidence
2/20/2023	DMH3094		None-Dry	None	Yes	Yes	No					No		Under Investigation
2/20/2023	DMH3094		None-Dry	None	Yes	Yes						No		Under Investigation
2/20/2023	DMH3094		Flow-Trickling	None	No	N/A	No					No		Under Investigation

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C527/526

ARCADIS

Catchment Area: C527/526

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/20/2023	C527 /		None-Standing	None	No	N/A	No					No		Under Investigation
2/20/2023	DMH3034		No-Standing Water	None	No	N/A	No					No		Under Investigation
2/20/2023	DMH3034		No-Standing Water	None	No	N/A	No					No		Under Investigation
2/20/2023	DMH3034		No-Standing Water	None	No	N/A	No					No		Under Investigation

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C528

ARCADIS

Catchment Area: C528

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
2/20/2023	DMH3057		None-Dry	None	No	N/A	No					No		No Evidence
2/20/2023	DMH3057		None-Dry	None	Yes	No	N/					N/A		No Evidence
2/20/2023	DMH3057		None-Dry	None	Yes	No	N/A					No		No Evidence
2/20/2023	DMH3061		Flow-Trickling	None	Yes	Yes	No					No		Under Investigation
2/20/2023	DMH3061		None-Dry	None	Yes	Yes						No		Under Investigation
2/20/2023	DMH3061		None-Dry	None	No	N/A	N/A					No		No Evidence
2/20/2023	DMH3065		None-Dry	None	No	N/A	N/A					No		No Evidence
2/20/2023	DMH3065		Flow-Trickling	None	Yes	Yes	No					No		Under Investigation
2/20/2023	DMH3065		None-Dry	None	No	N/A	N/A					No		Under Investigation

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C529

Catchment Area: C529

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
10/19/2022	DMH3532		None-Dry	None	No	N/A	No					No		No Evidence
10/19/2022	DMH3532		None-Wet	None	Yes									Other - See
10/19/2022	DMH3532		None-Dry	None	Yes									Other - See
10/19/2022	DMH3534		None-Dry	None	No	N/A	No					No		No Evidence
10/19/2022	DMH3534		None-Dry	None	Yes									Other - See
10/19/2022	DMH3534		None-Dry	None	Yes									Other - See
10/19/2022	DMH3534		None-Wet	None	No		No							Other - See
10/20/2022	DMH3534		None-Dry	None	Yes	No	N/A					N/A		No Evidence
10/20/2022	DMH3534		None-Wet	None	Yes	No	N/A							No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
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Dry Weather Catchment Investigations

Catchment Area C530

Catchment Area: C530

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/2/2022	DMH3537		None - Dry	None	No									No Evidence
11/2/2022	DMH3537		None - Dry	None	No									No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C531

ARCADIS

Catchment Area: C531

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
10/19/2022	DMH3561		Yes-Trickling	None	No		Yes	Clear	0	0.5	0	No		No Evidence
10/19/2022	DMH3561		None-Dry	None	Yes									Other - See
10/20/2022	DMH3561		None-Dry	None	Yes	No	N/A							No Evidence
10/19/2022	DMH3563		None-Dry	None	No		No							No Evidence
10/19/2022	DMH3563		None-Wet	None	Yes									Other - See
10/20/2022	DMH3563		None-Wet	None	Yes	Yes	No					No		Other - See
10/20/2022	DMH3563		None-Dry	None	Yes	No	N/A					No		No Evidence
10/20/2022	DMH3567		None/Dry	None	No									No evidence
10/20/2022	DMH3567		None/Dry	None	Yes									
10/20/2022	DMH3567		None	None	Yes									
10/20/2022	DMH3567		None-Dry	None	Yes	No	N/A					N/A		No Evidence
10/20/2022	DMH3567		None-Dry	None	Yes	No	N/A					No		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C534

ARCADIS

Catchment Area: C534

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
11/2/2022	DMH3542		None - Dry	None	No									No Evidence
11/2/2022	DMH3542		None - Wet	None	No									No Evidence
10/20/2022	DMH3545		None/Dry	None	Yes									
10/20/2022	DMH3545		None-Wet	None	Yes	No	N/A					N/A		No Evidence
10/20/2022	DMH3551		None/Dry	None	Yes									
10/20/2022	DMH3551		None/Dry	None	Yes									
10/20/2022	DMH3551		None-Dry	None	Yes	No	N/A					N/A		No Evidence
10/20/2022	DMH3551		None-Dry	None	Yes	No	N/A					N/A		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C535

Catchment Area: C535

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
10/20/2022	DMH3627		None-Dry	None	No	N/A						N/A		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Dry Weather Catchment Investigations

Catchment Area C536

ARCADIS

Catchment Area: C536

Inspection Date	Sampling Structure	Upstream Structure	Flow Observed	Odor	Sandbag Placed	Sandbag Flow	Sampled	Clarity	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Bacteria Sample	Bacteria [col/100mL]	IDDE Status
10/20/2022	DMH3631.1		None/Dry	None	Yes									
10/20/2022	DMH3631.1		None/Dry	None	Yes									
10/20/2022	DMH3631.1		None-Dry	None	Yes	No	N/A					No		No Evidence
10/20/2022	DMH3631.1		None-Wet	None	Yes	No	N/A					N/A		No Evidence

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Wet Weather Catchment Investigations

Catchment Area C401

ARCADIS

Outfall: C401 Sample Location: C401

Inspection Date	Located?	Flow Observed	Standing Water?	Standing Water Location	Color	Clarity	Odor	Floatables	Stains/ Deposits	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Lab ID	Bacteria [col/100mL]
6/28/2023	Located - Accesible	Gushing	no		Colorless	Clear	None	None	None	0.3	0.35	0.05	C401	3986

City of Fitchburg, Massachusetts
Municipal Separate Storm Sewer System
Permit Year 5 (7/1/2022 - 6/30/2023)
Wet Weather Catchment Investigations

Catchment Area C404

ARCADIS

Outfall: C404 Sample Location: C404

Inspection Date	Located?	Flow Observed	Standing Water?	Standing Water Location	Color	Clarity	Odor	Floatables	Stains/ Deposits	Ammonia [mg/L]	Surfactants [mg/L]	Chlorine [mg/L]	Lab ID	Bacteria [col/100mL]
6/28/2023	Located - Accesible	Gushing	no		Colorless	Cloudy	None	None	None	0.3	0.25	0.05	C404	7850

City of Fitchburg, Massachusetts
Massachusetts Small MS4 General Permit
Year 5 Annual Report
Reporting Period: July 1, 2022 – June 30, 2023

Appendix F – Illicit Connection Inventory

ARCADIS

City of Fitchburg, Massachusetts
Illicit Connections Summary

Illicit Connections Worksheet - Cumulative
Reporting Period: July 1, 2022 through June 30, 2023

Owner	Connection Address	Description	Actions to Remove	Date Discovered	Date Removed	Compliance Period
Private	359 Summer Street	Lateral to Drain	Redirected to SS	2012	2014	July 1st 2014 - December 30th 2014
City	Merriam Parkway	Sanitary Pipe to Punch Brook		2012		
Private	16 York Ave	Lateral to Drain		2012		
Private	37 Fairbanks Street	Lateral to Drain		2012		
Private	181 Upham Street	Lateral to Drain		2012		
Private	13 Almount Terrace	Disconnected a drain lateral from house during water main replacement project. See Pic on Bill O's U drive. Unknown flow.	Disconnected drain lateral during water main replacement project	9/14/2012		
City	Jeffrey Street Project	Substantial completion September 2012		9/14/2012	2012	July 1st 2012 - December 30th 2012
City	Causeway Street SMH		Not known what the issue	9/14/2012		
City	Beech Street	Extraneous Flow Removal Project - Planned for Spring 2013	Combined Sewer Separation	9/14/2012	2017	July 1st 2017 - December 30th 2017
City	Elm Street	CB tied in blind to sanitary sewer	Disconnected a CB lateral from Sanitary Line - Ray and Bob performed Repair.	9/14/2012	2013	July 1st 2013 - December 30th 2013
Private	175 Walton Street	Drain on Private property. Lundlow added DMH to pick it up. Dave Bartlett calculated 1,314,000 gallons per year		9/21/2012		July 1st 2012 - December 30th 2012

Owner	Connection Address	Description	Actions to Remove	Date Discovered	Date Removed	Compliance Period
Private	146 Charles Street	Ludlow installed a DMH infront of house. City paid for drain lateral up to property with backflow preventer. Ben Hill promised to redo internal piping.		9/21/2012		July 1st 2012 - December 30th 2012
Private	31 Townsend Street	Lateral to Drain	Redirected to SS	2013	2014	July 1st 2014 - December 30th 2014
Private	245 Summer Street	Lateral to Drain	Redirected to SS	2013	2014	July 1st 2014 - December 30th 2014
Private	45 Shattuck Street	Lateral to Drain	Redirected to SS	10/1/2017	8/21/2018	July 1st 2018 - December 30th 2018
City	Hartford Street	CB tied in at end of Hartford Street.	New line installed in gutter to catch basin downstream at corner	2019	2019	July 1st 2019 - December 30th 2019
Private	129 Theresa Street	Lateral to Drain	Redirected to SS	5/1/2020	7/30/2020	July 1st 2020 - December 30th 2020
Private	128 St. Joseph Ave	Lateral to Drain		6/1/2020		July 1st 2020 - December 30th 2020
Private	403 Pratt Road	Lateral to Drain		6/1/2020		July 1st 2020 - December 30th 2020
Private/City	Albert Place	Potential Sanitary Sewer Lateral discharge to Drain; location contains existing combined drain and sanitary sewer system manholes	Suspect illicit connection, conducting ongoing investigations to identify source	8/14/2020		July 1st 2020 - December 30th 2020
Private	200 Daniels Street	Flat roof drain to sanitary		8/20/2020		July 1st 2020 - December 30th 2020
Private/City	Everett Street, Fairbanks Street	Potential Sanitary Sewer Lateral discharge to Drain; location contains existing combined drain and sanitary sewer system manholes	Suspect illicit connection, conducting ongoing investigations to identify source	8/1/2022		July 1st 2022 - December 30th 2022