# Stormwater Management Program (SWMP) Plan

## Town of Boxborough, Massachusetts

**Prepared June 30, 2019**
**Revised June 30, 2021**

### Prepared For:

**Town of Boxborough**
29 Middle Road
Boxborough, MA 01719

### Prepared By:

**Comprehensive Environmental Inc.**
41 Main Street
Bolton, MA 01740

**Stormwater Management Program (SWMP) Plan Revision Log**

| Revision Date | Section(s) Revised | Revisions Made | Revisions Made by |
|---|---|---|---|
| June 30, 2019 | All | Original SWMP Plan prepared. | Nick Cristofori, CEI |
| June 30, 2021 | All | SWMP Plan amended to document work completed during Permit Year 2 and Permit Year 3. | Nick Cristofori, CEI |
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### Stormwater Management Program (SWMP) Plan 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 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: _____

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# 1 Introduction

Boxborough is one of many Massachusetts communities regulated under the Environmental Protection Agency's (USEPA) National Pollutant Discharge Elimination System (NPDES) Phase II rule (40 CFR 122). The rule requires regulated operators of municipal separate storm sewer systems (MS4) to develop a Stormwater Management Program (SWMP) and Best Management Practices (BMPs) to reduce the impacts of stormwater discharges. The requirements are outlined in the NPDES General Permits for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in Massachusetts, which was signed on April 4, 2016, with an effective date of July 1, 2018, hereinafter referred to as the 2016 MS4 Permit.

This SWMP Plan describes and details the activities and measures that are being implemented to meet the terms and conditions of the permit.

## 1.1 Regulatory Background

The Stormwater Phase II Final Rule was promulgated in 1999 and was the next step after the 1987 Phase I Rule in the United States Environmental Protection Agency's effort to preserve, protect, and improve the Nation's water resources from polluted stormwater runoff. The Phase II program expands the Phase I program by requiring operators of Small Municipal Separate Storm Sewer Systems in urbanized areas, through the use of National Pollutant Discharge Elimination System permits, to implement programs and practices to control polluted stormwater runoff. Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. Under the Phase II rule all MS4s with stormwater discharges from Census designated Urbanized Area are required to seek NPDES permit coverage for those stormwater discharges.

On May 1, 2003, EPA Region 1 issued its Final General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2003 MS4 Permit) consistent with the Phase II rule. The 2003 MS4 Permit covered "traditional" (i.e., cities and towns) and "non-traditional" (i.e., certain Federal and state agencies and/or facilities) MS4 Operators located in the states of Massachusetts and New Hampshire. This permit expired on May 1, 2008 but remained in effect until operators were authorized under the USEPA's 2016 NPDES General Permit for Stormwater Discharges from MS4 in Massachusetts, hereafter referred to as the "2016 Massachusetts MS4 Permit", "2016 Permit", "MS4 Permit, and/or "2016 MS4 Permit" which replaces the 2003 MS4 Permit.

The 2016 Massachusetts MS4 Permit was signed on April 4, 2016 with an original effective date of July 1, 2017, however was postponed by 1 year to a new effective date of July 1, 2018. The permit was cosigned by the Massachusetts Department of Environmental Protection (MassDEP) and thus is jointly regulated by EPA and MassDEP for Massachusetts permittees. After several years of litigation, the permit was updated in December 2020 with a revised effective date of January 6, 2021. Authorization to discharge expires at June 30,

2022. The following sections outline how the Town of Boxborough is meeting Phase II regulatory and schedule requirements.

## 1.2 MS4 Program

As required by the 2016 MS4 Permit, The Town of Boxborough submitted a Notice of Intent (NOI) and required accompanying information, including endangered species, historic preservation, and an outfall map to EPA Region 1 by the September 28, 2018 deadline (**Appendix A**) requesting authorization to discharge under the new permit. Boxborough received official authorization to discharge stormwater form its MS4 on March 5, 2019. Authorization to discharge expires at June 30, 2022.

This Stormwater Management Program Plan has been developed by the Town of Boxborough to address the requirements of the 2016 MS4 Permit as a follow-up to the NOI. This SWMP Plan documents the Town of Boxborough's program, including Best Management Practices, plans, activities, and measures that have been implemented to date, those that are ongoing, and those proposed for the future to comply with the 2016 MA MS4 Permit. This is a "living" document and should be updated and/or modified as required during the permit term as the permittee's activities are modified, changed or updated to meet permit conditions during the permit term.

This permit in part requires that each permittee, or regulated community, address 6 Minimum Control Measures (MCMs). These measures include the following:

1. Public Education and Outreach;
2. Public Involvement and Participation;
3. Illicit Discharge Detection and Elimination Program;
4. Construction Site Stormwater Runoff Control;
5. Stormwater Management in New Development and Redevelopment (Post Construction Stormwater Management); and
6. Good Housekeeping and Pollution Prevention for Permittee Owned Operations.

In addition to the 6 MCMs above, permittees must also address water quality impacts from waterbodies with approved Total Maximum Daily Loads (TMDLs) and certain impairments, generally known as water quality limited waterbodies.

## 1.3 Regulated Area

Requirements of the 2016 MS4 Permit are limited to a regulated area, defined as the Town's Urbanized Areas (UAs) which generally constitute the largest and most dense areas of settlement in a region. The Bureau of the Census determines UAs by applying a detailed set of published UA criteria to the latest decennial census data. Although the full UA definition is complex, the Bureau of the Census' general definition of a UA, based on population and population density, is provided below:

> *"An urbanized area (UA) is a densely settled core of census tracts and/or census blocks that have population of at least 50,000, along with adjacent territory*

*containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core. It is a calculation used by the Bureau of the Census to determine the geographic boundaries of the most heavily developed and dense urban areas."*

The most recent UA maps are based on the 2010 Census. **Figure 1-1** shows the UA in the Town of Boxborough, which covers the majority of the moderately developed municipality except for the more forested northern corner of the Town north of the Interstate 495. Per the most recent census data, the UA covers 4,990 out of 4,994 Town residents, or approximately 99.9% of the population. The UA area increased slightly since the 2000 Census, generally including a slightly expanded area in the eastern corner of the Town. The UA is subject to change every 10 years based on the application of the Census definition, thus a slightly larger area may be covered in the future.

## 1.4 How to Use this Plan

For the purposes of the 2016 MS4 Permit and ease of use, the Town's SWMP encompasses 5 separate written documents:

1. SWMP Plan (this document);
2. Illicit Discharge Detection and Elimination (IDDE) Plan (standalone document);
3. Operation and Maintenance (O&M) Plan (standalone document);
4. Stormwater Pollution Prevention Plan, Transfer Station (standalone document); and
5. Stormwater Pollution Prevention Plan, Highway Garage (standalone document).

This SWMP Plan is divided into several sections and includes the following components:

**Section 2** **Town Characteristics** – Section 2 provides an overview of relevant characteristics, focusing on those aspects related to stormwater runoff and the water quality of surface waters.

**Section 3** **MCM 1: Public Education and Outreach** – regulated operators of MS4s are required to implement a public education program. Section 3 discusses activities to comply with this measure.

**Section 4** **MCM 2: Public Participation and Involvement** – regulated MS4s are required to obtain public participation throughout the stormwater management program. Section 4 discusses activities to comply with this measure.

**Section 5** **MCM 3: Illicit Discharge, Detection, and Elimination** – regulated MS4s must develop and implement an illicit discharge detection and elimination program and develop a regulation to prohibit illicit discharges to the storm drain system. Section 5 discusses activities to comply with this measure.

**Section 6** **MCM 4: Construction Site Stormwater Runoff Control** – regulated MS4s are required to implement and enforce a program to reduce pollutants in stormwater runoff from construction activities that disturb 1 or more acres. This requires the development of a local regulation requiring implementation of proper erosion and sediment controls. Permittees are also responsible for inspections and enforcement. Section 6 discusses activities to comply with this measure.

**Section 7** **MCM 5: Stormwater Management in New Development and Redevelopment** – regulated MS4s are required to develop and enforce a regulation requiring implementation of post-construction runoff controls at sites where construction activities disturb 1 or more acres. The controls must be designed to treat stormwater runoff from post-development sites and must be maintained over the long-term. Section 7 discusses activities to comply with this measure.

**Section 8** **MCM 6: Good Housekeeping and Pollution Prevention** – regulated MS4s must review their operations at specific facilities and those that occur throughout the Town (i.e., catch basin cleaning and street sweeping) and make improvements where needed to minimize pollution to stormwater runoff. Staff involved in these operations must also be trained on appropriate operations and maintenance techniques. Section 8 discusses activities to comply with this measure.

**Section 9** **TMDL and Impaired Waters Controls** – regulated MS4s are required to evaluate and address stormwater contributions to impaired waters. Section 9 discusses activities to comply with this measure.

**Section 10** **Annual Reporting** – Section 10 provides a summary of annual reporting requirements in order to meet the 2016 MS4 Permit.

**Section 11** **Implementation of Best Management Practices** – Section 11 provides a summary of BMPs outlined in Sections 3 through 9 in a concise plan for easy reference.

## 1.5 Program Responsibilities

This plan is intended to be used by Town of Boxborough staff whose job involves administering the MS4 permit and associated requirements. The Town's MS4 program is headed by the following personnel:

**Table 1-1. MS4 Responsible Personnel**

| Name | Title, Department | Contact |
|---|---|---|
| Ed Kukkula | DPW Director | (978) 264-1700, ekukkula@boxborough-ma.gov |
| Simon Corson | Town Planner | (978) 264-1723, scorson@boxborough-ma.gov |

The Town of Boxborough has 11 departments responsible for implementing portions of its MS4 program as identified in the NOI. Therefore, due to the extensive number of departments involved as part of the Town's MS4 program, it is not feasible to list names and titles of responsible personnel for each one, as the information within this plan would be frequently out of date. However, **Table 1-2** provides a list of responsible departments and their general responsibilities within the MS4 program. The responsible person is the most senior person (e.g. department head, administrator, senior elected official, etc.) within each department listed below.

**Table 1-2. Program Responsibilities**

| Department / Division | General Responsibilities |
|---|---|
| Board of Health | Information distribution for public education; public participation; Sanitary Sewer Overflow (SSO) inventory; IDDE program implementation; IDDE training |
| Building Department | Information distribution for public education; site plan review procedures; site inspections and procedures; bylaw and regulation development; as-built submittal; TMDL requirements |
| Conservation Commission | Information distribution for public education; public participation; site plan review procedures; site inspections and procedures; bylaw and regulation development; as-built submittal; target properties to reduce impervious areas and for BMP retrofit; TMDL requirements |
| Department of Public Works | Information distribution for public education; public participation; SSO inventory; system mapping; IDDE program creation and implementation; IDDE training; inventory buildings and facilities; establish operation and maintenance procedures; SWPPP development and implementation; catch basin cleaning and street sweeping; road salt optimization program; BMP inspections and maintenance; TMDL requirements |
| Information Technology | Website-related public education; social media participation; public participation; |
| Permanent Building Committee | Inventory buildings and facilities |
| Planning Board | Information distribution for public education; website-related public education; public participation; SSO inventory; system mapping; IDDE program creation; IDDE training; site plan review procedures; site inspections and procedures; bylaw and regulation development; as-built submittal; target properties to reduce impervious areas and for BMP retrofit; TMDL requirements |
| Town Clerk | Information distribution for public education |
| Zoning Board | Information distribution for public education; regulation development; TMDL requirements |

# 2 Town Characteristics

This section provides some background information on the Town of Boxborough, Massachusetts, useful in understanding the Town's characteristics and resources to develop a tailored Stormwater Management Plan. Town characteristics are described below.

## 2.1 Community Information

Boxborough is a landlocked community located in northeastern Massachusetts within Middlesex County. It is generally bordered by Littleton Massachusetts to the north, Acton Massachusetts to the east, Stow Massachusetts to the south, and Harvard MA to the west. It lies within the Assabet River Watershed. Select relevant community profile information is provided below:

- Total Area = 10.4 square miles *(source: Wikipedia)*
- 2010 Population = 4,994 *(source: EPA maps based on 2010 US Census)*
- Regulated Area Population = 4,990 *(source: EPA maps based on 2010 US Census)*

## 2.2 Demographics

Demographics play a role in developing a public education program that targets the appropriate audience through the most appropriate means. Information on owner occupancy versus rentals and languages spoken can help shape how information is disseminated. The majority of Boxborough residents (approximately 95.8%) speak English "very well". Because this is the vast majority of the population, the public education and outreach program can proceed with distributing its materials in English.

## 2.3 Land Use

The land uses within the regulated area of the Town of Boxborough are shown on **Figure 2-1** and provided below. Impervious area is shown on **Figure 2-2**.

- Commercial 2%
- Forest 55%
- Industrial 2%
- Open Land and Agriculture 5%
- Residential 16%
- Transportation and Utilities 3%
- Wetlands 16%
- Water 0%

As per the above, Boxborough has substantial forest, open land, and water/wetland area (approximately 76%), with much of the remaining consisting of low-density residential development (approximately 16%). Remaining land use (approximately 7%) consists largely of roadways and minor commercial and industrial development.

## 2.4 303(d) Impaired Waterbodies

The ultimate goal of this Stormwater Management Plan is to outline a program to effectively maintain the Town's stormwater infrastructure and to improve the water quality of receiving waters (waters which receive stormwater discharges from the MS4) in compliance with the 2016 MS4 Permit. 303(d) impaired waters are those surface waters identified by the MassDEP as priority waters that do not meet water quality criteria. As part of the 2016 MS4 Permit, communities must implement BMPs to address all 303(d) waters and specifically address those that have a completed TMDL study. Of particular note to Boxborough, according to the Final 2016 Massachusetts Integrated List of Waters produced by MassDEP every 2 years[1], no waterbodies within the Town's regulated area are listed as Category 4 or Category 5. Resource waters are shown in **Figure 2-3**. Boxborough will review changes as new lists are published and update this plan as required.

Town of Boxborough is, however, subject to a phosphorus TMDL due to its location within the Assabet River Watershed. Thus, Boxborough will meet the requirements for this TMDL as outlined further in Section 9.

## 2.5 Measures to Protect Surface Drinking Water Supplies

All drinking water is obtained from wells and there are no public surface water supplies or tributaries within the Town. The town does not currently plan on using any surface waterbodies for public drinking water supplies in the near future and implementation of the SWMP helps protect water quality in all receiving waterbodies.

## 2.6 Endangered Species Act Determination

In order to be eligible to discharge stormwater under the 2016 MS4 Permit, the Town of Boxborough must certify that its stormwater system is not impacting federally listed rare or endangered species habitat or other critical environmental locations. This was completed in the summer of 2018 as meeting "Criterion B" on the Notice of Intent with the results documented in **Appendix A**. The Northern Long-eared Bat *(Myotis septentrionalis),* Red Knot *(Calidris canutus rufa)*, Roseate Tern (*Sterna dougallii dougallii)*, and Small Whorled Pogonia *(Isotria medeoloides)* were identified as potentially being present within Boxborough's regulated area. No critical habitats were identified.

## 2.7 National Historic Preservation Act Determination

Regulated MS4s must also evaluate whether its discharges have the potential to affect historic properties. The MS4 Permit typically authorizes discharges from existing facilities

[1]Note that at the time of preparation of this report (June 2021), the 2016 303d list is the most up to date finalized 303d List as approved by USEPA on December 2019.

and requires control of the pollutants discharged from the facility, however, EPA does not anticipate effects on historic properties from the pollutants in the authorized discharges. Thus, to the extent EPA's issuance of the MS4 General Permit authorizes discharges of such constituents, confined to existing channels, outfalls or natural drainage areas, the permitting action does not have the potential to cause effects on historical properties. If there have been no relevant changes in operation of the MS4 since the 2003 MS4 General Permit, the discharge can still be considered to have no potential to have an effect on historic properties. This has been documented as "Criterion A" on the Notice of Intent (**Appendix A**) and thus no additional information is required for documentation.

Where there is disturbance of land through the construction and/or installation of control measures, there is a possibility that artifacts, records, or remains associated with historic properties could be impacted. In these cases, such as during future construction of structural stormwater BMPs, the Town will need to ensure that historic properties will not be impacted by their activities, or that they are in compliance with a written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), or other tribal representative that outlines all measures the applicant will carry out to mitigate or prevent any adverse effects on historic properties. This will be completed as required during a later date(s).

# 3 MCM 1: Public Education and Outreach

## 3.1 Summary of Permit Requirements

### 3.1.1 Core Permit Requirements

Under MCM 1, permittees must develop an educational program, define educational goals, express specific messages, define the targeted audience for each message, and identify responsible parties for program implementation. At a minimum, the program must provide information concerning the impact of stormwater discharges on water bodies within the community, especially those waters that are impaired or identified as priority waters. The program must identify steps and/or activities that the public can take to reduce the pollutants in stormwater runoff and their impacts to the environment.

The Town must address 4 core target audiences, unless 1 of these audiences is not present in the MS4 community:

1. Residents;
2. Businesses, Institutions, and Commercial facilities;
3. Developers and Construction; and
4. Industrial facilities.

Because no industrial sector exists in the Town of Boxborough, Item 4 on the above list does not apply to its MS4 and has been omitted from the Town's program. At least 2 educational messages must be distributed to the remaining audiences over the permit term spaced at least a year apart. See sections below for more information.

### 3.1.2 TMDL & Impaired Waters Requirements

Public education and outreach programs must also address impaired waterbodies or those identified as priority waters. In Boxborough, the only waterbody impairments listed as having specific requirements under the 2016 MS4 Permit is phosphorus related to the Assabet River watershed. Relevant public information on phosphorus topics as outlined by the 2016 MS4 Permit is included with each of the 4 applicable target audiences as outlined below.

## 3.2 Objectives and Goals

The Town of Boxborough implements an education program that includes educational goals based on stormwater issues of significance within the MS4 area, increase knowledge, and change behavior of the public so that pollutants in stormwater are reduced.

## 3.3 Public Education Program

The following sections outline how Boxborough is meeting the requirements of the 2016 MS4 Permit by completing targeted outreach to the 3 required audiences. Industrial audiences are not present in Boxborough and are not being targeted.

### 3.3.1 Residential

**Informational Topics**
As required for all communities under the 2016 MS4 Permit, the following topics are addressed under the Residential public education and outreach program:

- Effects of outdoor activities such as lawn care (use of pesticides, herbicides, and fertilizers) on water quality;
- Benefits of appropriate on-site infiltration of stormwater;
- Effects of automotive work and car washing on water quality;
- Proper disposal of swimming pool water;
- Proper management of pet waste; and
- Maintenance of septic systems.

As required for waterbodies subject to the Assabet River Watershed phosphorus TMDL, the Town shall supplement its Residential program with the following annual messages encouraging:

- Spring (April-May): proper disposal of grass clippings and fertilizer usage, such as slow-release and phosphorus-free;
- Summer (June-July): proper management of pet waste; and
- Fall (August-October): proper disposal of leaf litter.

**Educational Message and Methods of Distribution**
The following table shows the educational messages and methods of distribution for the above topics, along with responsible parties and measurable goals.

**Table 3-1. BMP Description – Residential Outreach**

| BMP Description | Message | Method of Distribution | Responsible Parties | Measurable Goal |
|---|---|---|---|---|
| BMP 1-1: Residential Education Program | Brochures / Pamphlets | Distribute fact sheets or brochures on pet waste pickup with dog licenses | Town Clerk | Provide informational flyers with all pet waste license applications/renewals |

**Table 3-1 (continued). BMP Description – Residential Outreach**

| BMP Description | Message | Method of Distribution | Responsible Parties | Measurable Goal |
|---|---|---|---|---|
| BMP 1-1: Residential Education Program | Brochures / Pamphlets | Distribute brochures regarding various stormwater management topics at Town events | Conservation Commission, Board of Health, Planning Board, Department of Public Works | Provide information at Town events |
| | Stormwater webpage | Provide relevant information and links for viewing and/or download from Town webpage | Information Technology, Planning Board | Continue to update and maintain the websites to include relevant stormwater information |
| | Social media outreach | Provide relevant information to different audiences via various social media platforms | Information Technology | Follow statewide "Think Blue" campaign on social media platforms |

The following table lists which of the topics are covered under each message.

**Table 3-2. Residential Public Outreach Topics and Message**

| Topics and Educational Message | Brochures / Pamphlets | Stormwater Webpage | Social Media Outreach |
|---|---|---|---|
| **Core Program Topics** | | | |
| Effects of outdoor activities such as lawn care (use of pesticides, herbicides, and fertilizers) on water quality | x | x | x |
| Benefits of appropriate on-site infiltration of stormwater | x | x | x |
| Effects of automotive work and car washing on water quality | x | x | x |
| Proper disposal of swimming pool water; | x | x | x |
| Proper management of pet waste | x | x | x |
| Maintenance of septic systems | x | x | x |
| An annual message encouraging the proper management of pet waste, including noting any existing bylaws where appropriate | x | x | x |
| Disseminate educational materials to dog owners at the time of issuance or renewal of a dog license, or other appropriate time | x | x | x |
| Describe detrimental impacts of improper pet waste management, requirements for waste collection and disposal, and penalties for non-compliance | x | x | x |

**Table 3-2 (continued). Residential Public Outreach Topics and Message**

| Topics and Educational Message | Brochures / Pamphlets | Stormwater Webpage | Social Media Outreach |
|---|---|---|---|
| Provide information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria or pathogens | | x | x |
| **Phosphorus TMDL Topics** | | | |
| Spring (March/April): encourage proper use and disposal of grass clippings and use of slow-release and phosphorus free fertilizers | x | x | x |
| Summer (June/July): encourage proper management of pet waste | x | x | x |
| Fall (August/September/October): encourage the proper disposal of leaf litter | x | x | x |

**Schedule**
Due to the importance of educating Town residents, many of the above topics are made available continuously via brochures and the website. Information pertaining to the phosphorus seasonal messages is made available on the website continuously with notes provided for the appropriate timeframes for implementing certain topics.

### 3.3.2 Businesses, Institutions, and Commercial Facilities

**Informational Topics**
As required for all communities under the 2016 MS4 Permit, the following topics are addressed under the Business, Institutions, and Commercial public education and outreach program:

- Proper lawn maintenance (use of pesticides, herbicides and fertilizer);
- Benefits of appropriate on-site infiltration of stormwater;
- Building maintenance and storage of materials;
- Proper use and storage of salt or other de-icing and anti-icing materials;
- Proper management of waste materials and dumpsters;
- Proper management of parking lot surfaces;
- Proper car care activities; and
- Proper disposal of swimming pool water by entities such as motels, hotels, and health and country clubs.

As required for waterbodies subject to the Assabet River Watershed phosphorus TMDL, the Town shall supplement its Business, Institutions, and Commercial program with the following annual messages encouraging:

- Spring (April-May): proper disposal of grass clippings and fertilizer usage, such as slow-release and phosphorus-free;
- Summer (June-July): proper management of pet waste; and

- Fall (August-October): proper disposal of leaf litter.

**Educational Message and Methods of Distribution**
The following table shows the educational messages and methods of distribution for the above topics, along with responsible parties and measurable goals. All informational topics are addressed on the Town's website.

**Table 3-3. BMP Description – Businesses, Institutions, and Commercial Outreach**

| BMP Description | Message | Method of Distribution | Responsible Parties | Measurable Goal |
|---|---|---|---|---|
| BMP 1-2: Businesses, Institutions, and Commercial Education Program | Stormwater webpage | Provide relevant information and links for viewing and/or download from Town webpage | Information Technology, Planning Board | Continue to update and maintain the websites to include relevant stormwater information |
| | Social media outreach | Provide relevant information to different audiences via various social media platforms | Information Technology | Follow statewide "Think Blue" campaign on social media platforms |

**Schedule**
Information pertaining to the Business, Institutions, and Commercial public education and outreach program is made available on the website and via social media continuously.

### 3.3.3 Developers and Construction

**Informational Topics**
As required for all communities under the 2016 MS4 Permit, the following topics are addressed under the Developers and Construction public education and outreach program:

- Proper sediment and erosion control management practices;
- Information about Low Impact Development (LID) principles and technologies; and
- Information about EPA's construction general permit (CGP).

**Educational Message and Methods of Distribution**
The following table shows the educational messages and methods of distribution for the above topics, along with responsible parties and measurable goals. All informational topics are addressed on the Town's website and via erosion control and fact sheets provided to developers when applying for applicable permits.

**Table 3-4. BMP Description – Developers and Construction Outreach**

| BMP Description | Message | Method of Distribution | Responsible Parties | Measurable Goal |
|---|---|---|---|---|
| BMP 1-3: Developers and Construction Education Program | Stormwater webpage | Provide relevant information and links for viewing and/or download from Town webpage | Information Technology, Planning Board | Continue to update and maintain the websites to include relevant stormwater information |
| | Social media outreach | Provide relevant information to different audiences via various social media platforms | Information Technology | Follow statewide "Think Blue" campaign on social media platforms |
| | Brochures / Pamphlets | Distribute fact sheets or brochures on erosion and sediment control with permit applications | Planning Board, Zoning Board, Building Department, Conservation Commission | Provide informational brochures with all applications and track the number distributed. |

**Schedule**
Information pertaining to the Developers and Construction are made available continuously on the website and via social media.

### 3.3.4 Industrial

**Informational Topics**
As required for all communities under the 2016 MS4 Permit, the following topics are addressed under the Industrial public education and outreach program:

- Equipment inspection and maintenance;
- Proper storage of industrial materials and dumpster management;
- Proper management and disposal of wastes;
- Minimization of use and proper storage of salt or other de-icing/anti-icing materials;
- Benefits of on-site stormwater from areas with low exposure to industrial materials;
- Proper maintenance of parking lot surfaces; and
- Information about EPA's multisector general permit (MSGP).

**Educational Message and Methods of Distribution**
The following table shows the educational messages and methods of distribution for the above topics, along with responsible parties and measurable goals. All informational topics are addressed on the Town's website.

**Table 3-5. BMP Description – Industrial Outreach**

| BMP Description | Message | Method of Distribution | Responsible Parties | Measurable Goal |
|---|---|---|---|---|
| BMP 1-4: Industrial Education Program | Stormwater webpage | Provide relevant information and links for viewing and/or download from Town webpage | Information Technology, Planning Board | Continue to update and maintain the websites to include relevant stormwater information |
| | Social media outreach | Provide relevant information to different audiences via various social media platforms | Information Technology | Follow statewide "Think Blue" campaign on social media platforms |

**Schedule**
Information pertaining to the Industrial public education and outreach program are made available continuously on the website and via social media.

## 3.4 Measuring Public Education Program Effectiveness

During completion of the Town's annual report as detailed further under **Section 10**, Boxborough will review the effectiveness of each message and the Town's overall education program. Effectiveness is expected to vary by message, however will generally be measured based on quantities of materials distributed and feedback from town employees based on observations in their area of work. Educational messages and/or distribution techniques will be modified as needed, should program managers determine that they are ineffective.

# 4 MCM 2: Public Participation & Involvement

## 4.1 Summary of Permit Requirements

Under MCM 2, permittees must provide annual opportunities for public participation in the review and implementation of the Town's SWMP as part of a public education and involvement program. All public involvement activities must comply with state public notice requirements. The SWMP and annual reports must also be made available so that the public has opportunities to review and comment.

## 4.2 Objectives and Goals

Boxborough implements a public participation and involvement program that provides opportunities for review and implementation of the Town's SWMP. This helps support public education and outreach items under MCM 1.

## 4.3 Public Participation and Involvement Opportunities

The following outlines how Boxborough is meeting permit requirements to provide the public with opportunities to participate in reviewing and implementing the SWMP.

### 4.3.1 Make Documents Publicly Available for Comment

Boxborough makes this written SWMP Plan and annual reports available for review and comment via the Town's website, along with the name, email address and/or phone number of a contact person from the Town government to request additional information or submit comments. This allows the public to comment on the program at least once per year. An updated SWMP Plan is posted to the website annually as additional tasks are completed. The following table shows the BMP, responsible parties and measurable goals.

**Table 4-1. BMP Description – Make Documents Publicly Available for Comment**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 2-1: Make SWMP Plan Publicly Available | Information Technology, Planning Board | Annual review of stormwater management plan and posting on website. Allow public to comment on the plan at least annually. |

### 4.3.2 Land Stewardship Program for Conservation Lands

The Town continues to evaluate conservation lands and trails for recommended drainage and water quality improvements. The following table shows the BMP, responsible parties and measurable goals.

**Table 4-2. BMP Description - Habitat and Inventory Monitoring**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 2-2: Habitat Inventory and Monitoring | Conservation Commission | Continue to conduct habitat inventories and monitoring of Town conservation lands and holdings |

### 4.3.3 Household Hazardous Waste Collection

The Town sponsors a household hazardous waste collection day at least every other year to allow residents to properly disposal of hazardous materials.

**Table 4-3. BMP Description - Household Hazardous Waste Collection**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 2-3: Sponsor Household Hazardous Waste Event | Department of Public Works, Board of Health | Continue to allow public to drop off household hazardous waste every other year |

# 5 MCM 3: Illicit Discharge, Detection, and Elimination

## 5.1 Summary of Permit Requirements

Under MCM 3, permittees must implement an IDDE program to systematically find and eliminate sources of non-stormwater discharges to its MS4 and implement procedures to prevent such discharges. A summary of the required IDDE activities and timelines are provided below. See sections below for more information.

### 5.1.1 Legal Authority

The IDDE program shall include adequate legal authority in the form of a currently effective ordinance, bylaw, or other regulatory mechanism to prohibit, investigate, and eliminate illicit discharges. For permittees authorized by the MS4-2003 permit such as Boxborough, the ordinance, bylaw, or other regulatory mechanism was required to be effective by May 1, 2008.

### 5.1.2 Sanitary Sewer Overflow

Regulated communities must identify all known locations where SSOs have discharged to the MS4 during the previous 5-years and update it annually. Upon detection of an SSO, the permittee must eliminate it as quickly as possible and take interim mitigation measures to minimize or eliminate the discharge of pollutants until remediation work is complete.

### 5.1.3 System Mapping

Regulated communities must complete a comprehensive map of their stormwater system in 2 phases. Phase 1 must be completed within 2 years and include infrastructure such as outfalls and preliminary catchment delineations, waterbodies, open channel conveyances, interconnections with other MS4s, and structural stormwater BMPs. Phase 2 must be completed within 10 years and include information such as outfalls with high accuracy GPS location and refined catchment delineations, catch basins, manholes, pipe connectivity, and sanitary or combined sewer systems as available/applicable.

### 5.1.4 Illicit Discharge, Detection, and Elimination Program

The 2016 MS4 Permit requires preparation of a comprehensive written IDDE Program or IDDE Plan that provides detailed procedures for assessment and priority ranking of outfalls and interconnections, dry and wet weather outfall sampling, catchment investigation procedures, system vulnerability factor (SVF) assessment, identification of an illicit discharge, illicit discharge removal, and ongoing screening requirements. The written IDDE Program must be prepared as a standalone IDDE Plan separate from this SWMP Plan.

### 5.1.5 Annual IDDE Training

The 2016 MS4 Permit requires annual IDDE training to be provided to all employees involved in the IDDE program. Training must, at a minimum, include information on how to identify illicit discharges and SSOs and may also include additional training specific to the functions of particular personnel and their function within the framework of the IDDE program.

## 5.2 Objectives and Goals

The Town of Boxborough implements an IDDE program to systematically find and eliminate sources of non-stormwater discharges to its MS4 and implement procedures to prevent such discharges. The ultimate goal is to remove sources of pollution and improve water quality in receiving waterbodies.

## 5.3 IDDE Program

The following sections outline how Boxborough is meeting the requirements of the 2016 MS4 Permit to implement an IDDE program to locate, eliminate, and prohibit illicit discharges.

### 5.3.1 Establish Legal Authority

**Requirements**
Permittees must develop an ordinance, bylaw or regulatory mechanism to:

- Prohibit illicit discharges;
- Investigate suspected illicit discharges;
- Eliminate illicit discharges, including discharges from properties not owned by or controlled by the MS4 that discharge into the MS4 system; and
- Implement appropriate enforcement procedures and actions.

**Work to be Performed**
The Town of Boxborough previously enacted a "Stormwater Bylaw" under the general Town bylaws effective August 22, 2007 to meet IDDE regulatory mechanism requirements, and is provided under **Appendix B**. This regulatory mechanism provides the Town of Boxborough with adequate legal authority as required to comply with 2016 MS4 Permit requirements. The following table shows the BMP, responsible parties and measurable goals.

**Table 5-1. BMP Description – Establish IDDE Legal Authority**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 3-1: Enact and Enforce IDDE Bylaw | Planning Board, Board of Health | Continue enforcing existing "Stormwater Bylaw" and update as necessary |

### 5.3.2 Complete System Mapping

**Requirements**

The 2016 MS4 Permit requires the storm system map to be updated in 2 phases. Phase I mapping must be completed within 2 years of the effective date of the permit (July 1, 2020) and include the following information:

- Outfalls and receiving waters (previously required by the MS4-2003 permit);
- Open channel conveyances (swales, ditches, etc.);
- Interconnections with other MS4s and other storm sewer systems;
- Municipally owned stormwater treatment structures;
- Waterbodies identified by name with a list of impairments as identified on the most recent EPA approved Massachusetts Integrated List of Waters report; and
- Initial catchment delineations based on topography or contributing structures.

Phase II mapping must be completed within 10 years of the effective date of the permit (July 1, 2028) and include the following information:

- Outfall locations (latitude and longitude with a minimum accuracy of +/-30 feet);
- Pipe connectivity;
- Manholes;
- Catch basins;
- Refined catchment delineations based on updated mapping information;
- Municipal sanitary sewer system; and
- Municipal combined sewer system.

**Work to be Performed**

The Town of Boxborough has mapped much of its stormwater system. Current mapping status is provided in **Appendix C**. All information is incorporated into its GIS library. Where applicable, GIS information can be exported into other formats, such as Microsoft Excel, for use with annual reporting or tracking. The Town of Boxborough will continue to update its stormwater mapping by the required deadlines to include the above information. The following table shows the BMPs, responsible parties and measurable goals.

**Table 5-2. BMP Description – Complete System Mapping**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 3-2: Phase I Storm Sewer System Map | Department of Public Works, Planning Board | Complete preliminary system map within 2 years of effective date of permit |
| BMP 3-3: Phase II Storm Sewer System Map | Department of Public Works, Planning Board | Complete full system map 10 years after effective date of permit |

### 5.3.3 Complete Sanitary Sewer Overflow Inventory

**Requirements**
The 2016 MS4 Permit requires municipalities to prohibit illicit discharges, including SSOs, to the separate storm sewer system. SSOs are discharges of untreated sanitary wastewater from a municipal sanitary sewer that can contaminate surface waters, cause serious water quality problems and property damage, and threaten public health. SSOs can be caused by blockages, line breaks, sewer defects that allow stormwater and groundwater to overload the system, power failures, improper sewer design, and/or vandalism.

**Work to be Performed**
Boxborough's entire population relies on septic systems for wastewater management. Therefore, SSO considerations do not apply to the Town's program, as noted in the NOI (**Appendix A**).

### 5.3.4 Develop and Implement Written IDDE Program

**Requirements**
The Town of Boxborough must develop an IDDE Program, the majority of which is contained in a written Illicit Discharge, Detection, and Elimination Plan, a standalone document separate from this SWMP Plan. The IDDE Plan must include a statement of responsibilities and detailed written procedures for the following:

- Assessment and priority ranking of outfalls and interconnections;
- Dry and wet weather outfall sampling;
- Catchment investigation procedures;
- System vulnerability factor (SVF) assessment;
- Identification of an illicit discharge;
- Illicit discharge removal; and
- Ongoing screening requirements.

**Work to be Performed**
Boxborough has developed a written IDDE Plan as a separate standalone document to address the illicit discharge requirements of the 2016 MS4 Permit. Boxborough is working towards implementing a comprehensive IDDE Plan and program, according to the schedule set forth in the permit. The following table shows the BMPs, responsible parties and measurable goals.

**Table 5-3. BMP Description – Written IDDE Program and Program Implementation**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 3-4: Written IDDE Program | Department of Public Works, Board of Health | Department of Public Works, Planning Board |

**Table 5-3 (continued). BMP Description – Written IDDE Program and Program Implementation**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 3-5: Outfall Inventory and Ranking | Department of Public Works | Department of Public Works, Planning Board |
| BMP 3-6: Implement IDDE Program | Department of Public Works, Board of Health | Department of Public Works, Planning Board |

### 5.3.5 Perform Dry and Wet Weather Outfall Screening

**Requirements**

Outfalls and contributing catchment areas must be categorized into Problem, High, Low, and Excluded outfalls and then ranked within each category. The 2016 MS4 Permit then requires all outfalls classified as High and Low to be inspected for the presence of dry conditions within 3 years of the permit effective date. While completing screening, permittees must also document various physical indicators of the outfall and sample flowing outfalls. Additionally, outfalls with at least 1 SVF must also be sampled during wet weather. Depending on the results, additional screening and sampling may be required further up into the contributing catchment. Once dry and wet weather sampling is complete, additional ongoing screening shall be performed once every 5 years in accordance with the catchment prioritization and ranking. Both dry and wet weather outfall screening must be conducted in accordance with screening procedures outlined in the written IDDE Plan. All sampling results shall be reported in the permittee's annual report.

**Work to be Performed**

Boxborough developed an outfall sampling program under the IDDE Plan which is being implemented moving forward according to the schedule outlined in the 2016 MS4 Permit. This includes dry and wet weather screening on Town outfalls, including those with SVFs where applicable. Known outfalls were evaluated during dry weather conditions during 2019 and none of the sampling data collected from flowing outfalls met the Permit criteria as being highly likely to contain illicit discharges from sanitary sources. Results are documented in the IDDE Plan.

Wet weather screening on Town outfalls, including those with SVFs, will be completed at a later date where applicable. The program will be performed in accordance with the written procedures and schedules in the IDDE Plan. Ongoing screening will also be performed after the conclusion of the initial sampling rounds. The following table shows the BMPs, responsible parties and measurable goals.

**Table 5-4. BMP Description – Perform Dry and Wet Weather Outfall Screening**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| Dry Weather Screening | Department of Public Works | Complete in accordance with outfall screening procedure within 3 years of the effective permit date |
| Wet Weather Screening | Department of Public Works | Complete in accordance with outfall screening procedure within 10 years of the effective permit date |
| Ongoing Screening | Department of Public Works | Conduct ongoing dry and wet weather outfall screening upon completion of the IDDE program |

### 5.3.6 Perform Annual IDDE Training

The 2016 MS4 Permit requires annual IDDE training to be provided to all employees involved in the IDDE program. Therefore, Boxborough provides annual training that at a minimum includes information on how to identify illicit discharges and may also include additional training specific to the functions of particular personnel and their function within the framework of the IDDE program. The Department of Public Works, Planning Board, and Board of Health are the sole municipal departments responsible for implementing the IDDE program, and thus training focuses on these departments. Frequency and type(s) of training will be included in the annual report. The following table shows the BMP, responsible parties and measurable goals.

**Table 5-5. BMP Description – Perform Annual IDDE Training**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| Perform IDDE Training | Department of Public Works, Planning Board, Board of Health | Complete annual training |

## 5.4 Measuring IDDE Program Effectiveness

The success of the IDDE Program is evaluated according to the following parameters:

- Storm system mapping progress;
- Number of illicit discharges identified and removed;
- Number and percent of total outfall catchments served by the MS4 evaluated using the catchment investigation procedures;
- Updated SVF and catchment inventory and ranking;
- Dry weather and wet weather screening and sampling results; and
- Number of employees successfully trained on IDDE.

The above are tracked throughout the year and reported as part of each annual report submitted to EPA each year by September 28.

# 6 MCM 4: Construction Site Stormwater Runoff Control

## 6.1 Summary of Permit Requirements

Under MCM 4, permittees are required to implement and enforce a program to reduce pollutants in stormwater runoff discharged to the MS4 from all construction activities that result in a land disturbance of greater than or equal to 1 acre within the regulated area. This program shall also regulate disturbances less than 1 acre if they are part of a larger common plan of development or sale that would disturb 1 or more acres. A summary of the required Construction Site Stormwater Runoff Control Program activities and timelines are provided below:

### 6.1.1 Legal Authority

The Construction Site Stormwater Runoff Control Program shall include adequate legal authority in the form of a currently effective ordinance, bylaw, or other regulatory mechanism to:

- Require the use of sediment and erosion control practices at construction sites; and
- Include controls for other wastes on construction sites.

For permittees authorized by the MS4-2003 permit such as Boxborough, the ordinance, bylaw, or other regulatory mechanism was required to be effective by May 1, 2008.

### 6.1.2 Construction Site Stormwater Runoff Control Program

The 2016 MS4 Permit requires preparation of a written Construction Site Stormwater Runoff Control Program procedures that includes pre-construction site plan review and onsite construction inspections. Permittees must also establish requirements for developers to implement a Sediment and Erosion Control Program as part of its Construction Site Stormwater Runoff Control Program that includes BMPs to reduce pollutant sources from construction sites. This program should also include requirements for controlling other wastes during construction.

## 6.2 Objectives and Goals

The Town of Boxborough implements an effective construction stormwater runoff control program to minimize or eliminate erosion and maintain sediment onsite so that it is not transported in stormwater and allowed to discharge to a water of the U.S through the permittee's MS4.

## 6.3 Construction Site Stormwater Runoff Control Program

The following sections outline how Boxborough meets the requirements of the 2016 MS4 Permit to establish a Construction Site Stormwater Runoff Control Program.

### 6.3.1 Establish Legal Authority

**Requirements**
Permittees must develop an ordinance, bylaw or regulatory mechanism to:

- Require the use of sediment and erosion control practices at construction sites;
- Include controls for other wastes on construction sites.

In addition, the bylaw may require updates to address the requirements of the Assabet River phosphorus TMDL. See Section 9 for more information.

**Work to be Performed**
The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under **Appendix B**. The Town is currently in the process of adopting accompanying stormwater regulations to meet sediment and erosion control regulatory mechanism requirements. The following table shows the BMP, responsible parties and measurable goals.

**Table 6-1. BMP Description – Establish Construction Site Legal Authority**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 4-1: Develop and Enforce Construction Bylaw | Planning Board, Conservation Commission, Building Department | Complete bylaw within 1 year of the effective date of the permit |

### 6.3.2 Establish Written Procedures for Site Plan Review

**Requirements**
The 2016 MS4 Permit requires establishing written procedures for pre-construction plan review of the site design, planned operations, planned BMPs during the construction phase, and planned BMPs to manage runoff after development that includes the following:

- Potential water quality impacts;
- Consideration of information submitted by the public; and
- Evaluation of opportunities for use of LID and green infrastructure (GI).

**Work to be Performed**
The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on

December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under **Appendix B**. The Town is currently in the process of adopting accompanying stormwater regulations to require review of site plans and accompanying information by the planning board. The following table shows the BMP, responsible parties and measurable goals.

**Table 6-2. BMP Description – Establish Site Plan Review Procedures**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 4-2: Develop Written Procedures for Site Plan Review | Planning Board, Conservation Commission, Building Department | Establish procedures for site plan review within 1 year of the effective date of the permit |

### 6.3.3 Establish Procedures for Site Inspections and Enforcement

**Requirements**

The 2016 MS4 Permit requires the development of written procedures for site inspections and enforcement actions to take place both during construction of BMPs and after construction of BMPs is completed to ensure they are working as described in the approved plans. Procedures must define the following:

- Who is responsible for site inspections;
- Qualifications necessary to perform inspections;
- Who has authority to implement enforcement procedures;
- Ability to impose sanctions to ensure program compliance;
- The use of standardized inspection forms (if appropriate); and
- How to track the number inspections and enforcement actions for reporting in the Annual Report.

**Work to be Performed**

The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under **Appendix B**. The Town is currently in the process of adopting accompanying stormwater regulations to require monitoring and inspecting construction sites. The following table shows the BMP, responsible parties and measurable goals.

**Table 6-3. BMP Description – Establish Site Inspections and Enforcement Procedures**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 4-3: Develop Written Procedures for Site Inspections and Enforcement | Planning Board, Conservation Commission, Building Department | Establish procedures for site inspections and enforcement within 1 year of the effective date of the permit |

### 6.3.4 Establish a Sediment and Erosion Control Program

**Requirements**

Permittees must establish requirements for construction site operators performing land disturbance activities within the MS4 jurisdiction that result in stormwater discharges to the MS4 to implement a sediment and erosion control program that includes BMPs appropriate for the conditions at the construction site. Examples of sediment and erosion control measures for construction sites include local requirements to:

1. Minimize the amount of disturbed area and protect natural resources;
2. Stabilize sites when projects are complete or operations have temporarily ceased;
3. Protect slopes on the construction site;
5. Protect all storm drain inlets and armor all newly constructed outlets;
6. Use perimeter controls at the site;
7. Stabilize construction site entrances and exits to prevent off-site tracking;
8. Inspect stormwater controls at consistent intervals.

**Work to be Performed**

The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under **Appendix B**. The Town is currently in the process of adopting accompanying stormwater regulations to reduce the erosion of sediments on construction sites. Regulations will in part provide written procedures to prohibit illicit discharge of debris, truck wash-out, litter and sanitary waste control on constructions sites. The following table shows the BMP, responsible parties and measurable goals.

**Table 6-4. BMP Description – Develop an Erosion and Sediment Control Program**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 4-4: Establish a Sediment and Erosion Control Program | Planning Board, Conservation Commission, Building Department | Establish procedures for development of an erosion and sediment control program within 1 year of the effective date of the permit |
| BMP 4-5: Develop Procedures for Waste Control | Planning Board, Conservation Commission, Building Department | Establish requirements to control construction site wastes within 1 year of the effective date of the permit |

# 7 MCM 5: Stormwater Management in New Development and Redevelopment

## 7.1 Summary of Permit Requirements

Under MCM 5, permittees shall develop, implement, and enforce a program to address post-construction stormwater runoff from new development and redevelopment sites that disturb 1 or more acres and discharge into an MS4 system. This program shall also regulate disturbances less than 1 acre if they are part of a larger common plan of development or sale that would disturb 1 or more acres. A summary of the required Stormwater Management in New Development and Redevelopment, also known as Post Construction Stormwater Management, activities and timelines are provided below:

### 7.1.1 Legal Authority

The Post Construction Stormwater Management Program shall include adequate legal authority in the form of a currently effective ordinance, bylaw, or other regulatory mechanism to:

- Require LID site planning and design strategies;
- Meet many of the requirements of the Massachusetts Stormwater Handbook and associated stormwater standards; and
- Incorporate runoff volume storage and/or pollutant removal requirements.

Updates must be made within 3 years of the effective permit date.

### 7.1.2 As-Built Submittals

The permittee must require the submission of as-built drawings within 3 years after completion of construction projects and include structural and non-structural controls.

### 7.1.3 Operation and Maintenance

The program must include procedures to ensure adequate long-term operation and maintenance of BMPs are established after completion of a construction project, along with a dedicated funding source within 3 years of the effective permit date.

### 7.1.4 Regulatory Assessment

The permittee must complete an assessment of existing regulations that could affect creation of impervious cover to determine if changes are required to support LID. Additionally, the permittee must assess current regulations to ensure that certain green infrastructure is allowable where feasible. Any required changes must be completed within 4 years of the effective permit date.

### 7.1.5 Inventory of Potential Retrofit Sites

The permittee must complete an inventory within 4 years of the effective permit date to determine at least 5 permittee-owned properties that could be modified or retrofitted with stormwater BMP improvements.

## 7.2 Objectives and Goals

The Town of Boxborough implements and enforces a program to reduce pollutants in stormwater runoff discharged to the MS4 from all construction activities that result in a land disturbance greater than or equal to 1 acre within the regulated area.

## 7.3 Post-Construction Stormwater Management Program

The following sections outline how Boxborough is meeting the requirements of the 2016 MS4 Permit to establish a Post-Construction Stormwater Management Program.

### 7.3.1 Establish Legal Authority

**Requirements**
Under the 2016 MS4 Permit, permittees shall develop or modify an ordinance, bylaw, or other regulatory mechanism within 3 years of the effective date of the permit to contain provisions that are as least as stringent as the following:

1. Use LID site planning and design strategies unless in feasible;
2. Stormwater management system designs shall be consistent with, or more stringent than, the requirements of the 2008 Massachusetts Stormwater Handbook, as amended;
3. Stormwater management systems on new development shall be designed to meet an average annual pollutant removal equivalent to 90% of the average annual load of Total Suspended Solids (TSS) related to the total post-construction impervious area on the site AND 60% of the average annual load of Total Phosphorus related to the total postconstruction impervious surface area on the site as calculated based on the average annual loading and not on the basis of any individual storm event.
    a) Average annual pollutant removal requirements are achieved through one of the following methods:
        1) Installing BMPs that meet the pollutant removal percentages based on calculations developed consistent with EPA Region 1's BMP Accounting and Tracking Tool (2016) or other BMP performance evaluation tool provided by EPA Region 1, where available. If EPA Region 1 tools do not address the planned or installed BMP performance, then any federally or State-approved BMP design guidance or performance standards (e.g., State stormwater handbooks and design guidance manuals) may be used to calculate BMP performance; or

2) Retaining the volume of runoff equivalent to, or greater than, one inch multiplied by the total post-construction impervious surface area on the new development site; or
3) Meeting a combination of retention and treatment that achieves the above standards; or
4) Utilizing offsite mitigation that meets the above standards within the same USGS HUC12 as the new development site.

4. Stormwater management systems on redevelopment sites shall be designed to meet an average annual pollutant removal equivalent to 80% of the average annual postconstruction load of TSS related to the total post-construction impervious area on the site AND 50% of the average annual load of Total Phosphorus related to the total post-construction impervious surface area on the site as calculated based on the average annual loading and not on the basis of any individual storm event.
   b) Average annual pollutant removal requirements are achieved through one of the following methods:
      1) Installing BMPs that meet the pollutant removal percentages based on calculations developed consistent with EPA Region 1's BMP Accounting and Tracking Tool (2016) or other BMP performance evaluation tool provided by EPA Region 1, where available. If EPA Region 1 tools do not address the planned or installed BMP performance, then any federally or State-approved BMP design guidance or performance standards (e.g., State stormwater handbooks and design guidance manuals) may be used to calculate BMP performance; or
      2) Retaining the volume of runoff equivalent to, or greater than, 0.8 inch multiplied by the total post-construction impervious surface area on the redeveloped site; or
      3) Meeting a combination of retention and treatment that achieves the above standards; or
      4) Utilizing offsite mitigation that meets the above standards within the same USGS HUC12 as the redevelopment site.
   a) Redevelopment activities that are exclusively limited to maintenance and improvement of existing roadways, (including widening less than a single lane, adding shoulders, correcting substandard intersections, improving existing drainage systems, and repaving projects) shall improve existing conditions unless infeasible are exempt from part a) above. Roadway widening or improvements that increase the amount of impervious area on the redevelopment site by greater than or equal to a single lane width shall meet the requirements of part a) above.

Additionally, the bylaw must include requirements for stormwater structural BMPs proposed as part of new or redevelopment to be optimized for phosphorus removal for projects within the Assabet River watershed in order to meet TMDL requirements. See Section 9 for more information.

**Work to be Performed**
The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under **Appendix B**. The Town is currently in the process of adopting accompanying stormwater regulations to address nitrogen and phosphorus removal optimization for new development and redevelopment projects, among other requirements. The following table shows the BMP, responsible parties and measurable goals.

**Table 7-1. BMP Description – Establish Post-Construction Site Legal Authority**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 5-1: Develop and Enforce Post-Construction Bylaw | Planning Board, Conservation Commission, Building Department | Complete bylaw within 3 years of the effective date of the permit |

### 7.3.2 Require Submittal of As-Built Plans

The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under **Appendix B**. The Town is currently in the process of adopting accompanying stormwater regulations to require submittal of as-built drawings. The following table shows the BMP, responsible parties and measurable goals..

**Table 7-2. BMP Description – Require Submittal of As-Built Plans**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 5-2: Require Stormwater As-Built Plan Submittal | Planning Board, Conservation Commission, Building Department | Require submittal of as-built plans for completed projects within 2 years of completion |

### 7.3.3 Require Long Term Operation and Maintenance

The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under **Appendix B**. The Town is currently in the process of adopting accompanying stormwater regulations to develop procedures to ensure that the adequate long-term operation and maintenance of BMPs is accounted for at the conclusion

of a construction project, along with a dedicated funding source. The following table shows the BMP, responsible parties and measurable goals.

**Table 7-3. BMP Description – Require Long Term Operation and Maintenance Plans**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 5-3: Require Long Term Operation and Maintenance | Planning Board, Conservation Commission, Building Department | Require submittal of operation and maintenance plans and dedicated funding to ensure long term maintenance within 2 years of the effective date of the permit |

### 7.3.4 Complete Regulatory Assessment

**Requirements**

The 2016 MS4 permit requires permittees to complete a report that assesses current street design, parking lot guidelines, and other local requirements that could affect creation of impervious cover to determine if changes to existing design standards are required to support LID. If the assessment indicates that changes can be made, the assessment shall include recommendations and proposed schedules to incorporate policies and standards into relevant documents and procedures to minimize impervious cover. Any required changes to reduce mandatory creation of impervious cover in support of LID should be made within 4 years of the effective permit date.

Additionally, the permittee must complete a report that assesses current regulations to determine the feasibility of allowing green roofs, infiltration practices, porous/pervious pavement, and water harvesting/storage devices where feasible. The assessment must indicate if the practices are allowed in the MS4 area and under what circumstances they are allowed. If the practices are not allowed, the permittee shall determine what hinders the use of these practices, what changes in local regulations may be made to make them allowable, and provide a schedule for implementation of recommendations. Any required changes to allow for these BMPs must be completed within 4 years of the effective permit date.

**Work to be Performed**

The Town of Boxborough has not yet performed a comprehensive review of all regulations for the above items. The Town will prepare a report assessing requirements that affect the creation of impervious cover. This assessment will determine if design standards for streets and parking lots can be modified to support low impact design options. The Town will also prepare a report assessing existing local regulations to determine the feasibility of making green infrastructure – such as green roofs, infiltration practices, and water harvesting devices – allowable when appropriate site conditions exist. When completed, the reports will be part of this Stormwater Management Plan. Review and updates to relevant regulations will be completed within 4 years of the effective permit date to meet permit requirements. The following table shows the BMPs, responsible parties and measurable goals.

**Table 7-4. BMP Description – Complete LID and GI Regulatory Updates**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 5-4: Street design and parking lot guidelines | Planning Board, Conservation Commission, Zoning Board | Complete regulatory updates within 4 years of the effective date of the permit |
| BMP 5-5: Allow green infrastructure | Planning Board, Conservation Commission, Building Department, | Complete regulatory updates within 4 years of the effective date of the permit |

### 7.3.5 Complete Inventory of Potential BMP Retrofit Sites

**Requirements**

Permittees must complete an inventory of at least 5 existing permittee-owned properties that could be modified or retrofitted with structural stormwater BMP improvements to reduce the frequency, volume, and pollutant loads within 4 years of the effective permit date. The inventory provided in **Appendix D** should include municipal properties with significant impervious cover such as parking lots, buildings, and maintenance yards, along with infrastructure such as existing rights-of-way, outfalls and stormwater conveyances such as swales or detention practices. The permittee should address potential site constraints that could hinder BMP construction, such as subsurface conditions, depth to water table, and utility impacts, and should ideally allow opportunities for public education. In addition, the inventory must consider BMPs to reduce phosphorus discharges because of the phosphorus impairment to the Assabet River.

Beginning with the fifth annual report, should BMPs at 1 or more sites be constructed, the inventory should be updated so that it always contains at least 5 sites in the inventory for potential improvement. Additionally, the permittee must report on all properties that have been modified or retrofitted to mitigate impervious area.

**Work to be Performed**

The Town of Boxborough will identify minimum of five town properties that can be retrofitted to reduce pollutant loads of discharges into and from MS4 infrastructure (including street right-of-ways, conventional conveyances, outfalls and controls). The Town will evaluate and rank retrofits for control of stormwater discharges to first or second order streams, public swimming beaches, water supply sources, water quality limited waters and other critical areas. This inventory will be maintained in **Appendix D** and will be completed within 4 years of the effective date of the permit. This inventory will be updated continuously starting in Year 5. The following table shows the BMP, responsible parties and measurable goals.

**Table 7-5. BMP Description – Complete Inventory of Properties for BMP Retrofit**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 5-6: Target properties to reduce impervious areas | Planning Board, Conservation Commission | Complete inventory within 4 years of the effective date of the permit and update annually on retrofitted properties |

# 8 MCM 6: Good Housekeeping and Pollution Prevention

## 8.1 Summary of Permit Requirements

Under MCM 6, permittees shall develop and implement an operations and maintenance program to reduce stormwater pollution from permittee activities. This includes optimizing existing activities related to parks and open space, buildings and facilities, vehicles and equipment, and stormwater infrastructure maintenance. A summary of the required Good Housekeeping and Pollution Prevention for Permittee Owned Operations activities and timelines is provided below.

### 8.1.1 Operations and Maintenance Programs

Permittees shall develop written operations and maintenance procedures for parks and open space, buildings and facilities, vehicles and equipment, winter road maintenance, stormwater infrastructure, and structural stormwater BMPs within 2 years of the effective permit date. This program shall also optimize catch basin cleaning and street sweeping, along with establishing proper storage techniques for cleaning residuals. All maintenance activities, inspections, and training shall be logged for annual reporting.

### 8.1.2 Stormwater Pollution Prevention Plans

Develop and implement Stormwater Pollution Prevention Plans (SWPPPs) for municipally-owned maintenance garages, public works yards, transfer stations within 2 years of the effective permit date.

## 8.2 Good Housekeeping and Pollution Prevention Program

The following sections outline how Boxborough is meeting the requirements of the 2016 MS4 Permit to establish a Good Housekeeping and Pollution Prevention Program.

### 8.2.1 Complete Facilities O&M Procedures

**Requirements**

The permittee must complete an inventory of all parks and open space, buildings and facilities where pollutants are exposed to stormwater runoff, including those coming from vehicles and equipment, within 2 years of the permit effective date. The inventory must be reviewed annually and updated as necessary. Upon completion, the permittee must establish written procedures as part of a Operation and Maintenance Plan within 2 years of the permit effective date for the following items:

Parks and Open Space

- Proper use, storage, and disposal of pesticides, herbicides, and fertilizers;
- Lawn maintenance and landscaping activities to protect water quality, such as reducing mowing, lawn clippings handling, and use of alternative materials;
- Pet waste handling collection and disposal locations at all locations where pets are permitted, including signage;
- Control of waterfowl in areas where they congregate to reduce waterfowl droppings from entering the MS4s;
- Management of trash containers; and
- Address erosion or poor vegetative cover, particularly near a surface waterbody.

Buildings and Facilities

- Use, storage, and disposal of petroleum products and other potential pollutants.
- Materials handling training to applicable employees;
- Ensuring that Spill Prevention, Control, and Countermeasures (SPCC) Plans are in place if needed (aboveground petroleum storage greater than 1,320 gallons or underground petroleum storage greater than 42,000 gallons);
- Dumpsters and other waste management equipment; and
- Sweeping parking lots and keeping facility areas clean to reduce pollutants in runoff.

Vehicles and Equipment

- Storage of vehicles to prevent fluid leaks to stormwater;
- Fueling area evaluation, including feasibility of fueling under cover; and
- Preventing vehicle wash waters from entering surface waters or the MS4.

**Work to be Performed**

The Town has prepared a comprehensive written O&M Plan, a standalone document separate from this SWMP Plan, that meets the above requirements. This document also includes the inventory of relevant Town-owned properties. In addition, the Town's O&M Plan established requirements for use of slow release and phosphorus-free fertilizers on permittee owned properties and establish procedures to manage grass cuttings and leaf litter on permittee property within areas of town draining to the Assabet River watershed, a waterbody impaired for phosphorus. The following table shows the BMPs, responsible parties and measurable goals.

**Table 8-1. BMP Description – Complete Written Facilities O&M Procedures**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 6-1: Inventory open spaces, buildings and facilities, and vehicles and equipment | Department of Public Works, Permanent Building Committee | Complete inventory of open spaces, buildings and facilities, and vehicles and equipment within 2 years of the effective date of the permit |
| BMP 6-2: Create Written O&M Procedures for MS4 Properties | Department of Public Works | Create written O&M Plan for open spaces, buildings and facilities, and vehicles and equipment within 2 years of the effective date of the permit |

### 8.2.2 Complete Infrastructure O&M Procedures

**Requirements**

The permittee must establish written procedures as part of an Operation and Maintenance Plan within 2 years of the permit effective date to ensure that MS4 infrastructure is maintained in a timely manner to reduce the discharge of pollutants from the MS4 for the following items:

Street Sweeping (**Appendix E**)

- Sweeping all streets and permittee-owed parking lots, with the exception of rural uncurbed roads with no catch basins or high-speed limited access highways at least 1 per year in the spring;
- More frequent sweeping of targeted areas based on inspections, land use, or known water quality impacts;
- Increasing street sweeping frequency of all municipal owned streets and parking lots to a minimum of 2 times per year; once in the spring (following winter activities such as sanding) and at least once in the fall (Sept 1 – Dec 1; following leaf fall) for areas within the phosphorus-impaired watersheds; and
- For rural uncurbed roadways with no catch basins or limited access highways, either an evaluation to meet the minimum frequencies above or development and implementation of an inspection, documentation, and targeted sweeping plan within 2 years of the effective date and submitted with the Year 1 annual report.

Catch Basin Cleaning (**Appendix F**)

- Prioritization of catch basins located near construction activities for more frequent inspection and maintenance;
- Establishing a schedule with a goal that at the time of maintenance, no catch basin is more than 50% full;
- For catch basins that are more than 50% full during 2 consecutive inspections or cleaning events, methods for investigating the contributing drainage area for sources of excessive sediment loads; and
- Establishing a plan for optimizing catch basin cleaning, inspections, and documentation.

Catch Basin and Street Sweeping Residuals Management

- Ensure proper storage of catch basins cleanings and street sweepings prior to disposal or reuse such that they will not be discharged to receiving waters based on available MassDEP policies.

Winter Operation and Maintenance

- Establish and implement procedures for winter road maintenance including the use and storage of salt and sand
- Minimizing use of sodium chloride and other salts and evaluation of opportunities to use alternative materials; and

- Ensuring that snow disposal activities do not result in disposal of snow into waters of the United States.

**Work to be Performed**
The Town recently updated its existing street sweeping, catch basin cleaning, and winter O&M procedures in order to meet permit requirements. Street sweeping will continue under the existing Street Sweeping Prioritization Plan provided in **Appendix E**. Catch basin prioritization will also continue according to the methodology and schedule outlined in the Catch Basin Optimization Plan provided in **Appendix F**, expected to be further reviewed during summer 2021. Results will be reviewed after each year to determine recommended next steps. The following table shows the BMPs, responsible parties and measurable goals.

**Table 8-2. BMP Description – Complete Written Infrastructure O&M Procedures**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 6-3: Create Written O&M Procedures for MS4 Infrastructure | Department of Public Works | Create written O&M Plan for stormwater infrastructure within 2 years of the effective date of the permit |
| BMP 6-4: Catch Basin Cleaning | Department of Public Works | Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually |
| BMP 6-5: Street Sweeping | Department of Public Works | Sweep all streets and parking lots at least annually |
| BMP 6-6: Road salt optimization program | Department of Public Works | Implement salt use optimization during winter maintenance operations |

### 8.2.3 Stormwater Pollution Prevention Plans

**Requirements**
The permittee must establish written Stormwater Pollution Prevention Plans for the following permittee-owned or operated facilities: maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater as determined by the permittee. SWPPPs must address a number of components, including the following:

- Pollution Prevention Team;
- Facility description, identification of potential pollutant sources, and identification of stormwater controls;
- Stormwater management practices, including measures to minimize or prevent exposure, good housekeeping and preventative maintenance, spill prevention and response, erosion and sediment control, management of runoff, salt storage, employee training, and control measure maintenance; and
- Procedures for site inspections and sampling.

**Work to be Performed**
The Town of Boxborough has determined that it has two facilities that meet the above requirements, including the Boxborough DPW Garage and Transfer Station. SWPPPs have been prepared for these facilities as a separate standalone documents which should be updated when there is a significant change in design, construction, operation, or maintenance of either facility that affects the discharge or potential discharge of pollutants. Plans are made available in hardcopy at both facilities to members of federal, state, or local agencies during normal working hours for review upon request. Copies are accessible to all persons responsible for implementing and administering it. The following table shows the BMP, responsible parties and measurable goals.

**Table 8-3. BMP Description – Prepare SWPPPs for Regulated Facilities**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 6-7: Assess regulated facilities to determine SWPPP eligibility | Department of Public Works | Complete facilities assessment within 2 years of the effective date of permit. |
| BMP 6-8: Develop SWPPPs for applicable facilities | Department of Public Works | Complete and implement within 2 years of the effective date of the permit |

### 8.2.4 Structural Stormwater BMP Inspections

**Requirements**
The permittee must establish and implement written inspection and maintenance procedures and frequencies for all stormwater treatment structures, such as infiltration and detention basins, proprietary stormwater treatment structures, gravel wetlands, etc. at least annually.

**Work to be Performed**
The Town of Boxborough completed an inventory (**Appendix G**) of known structural stormwater BMPs by the end of Year 2 as required by MCM 3, mapping requirements. The Town also developed inspection and maintenance procedures for the various types of BMPs located within the Town's regulated area. BMP inspection Standard Operating Procedures (SOPs) and results are tracked under the standalone O&M Plan under separate cover. The O&M Plan also provides logs for BMP inspection and maintenance. The following table shows the BMP, responsible parties and measurable goals.

**Table 8-4. BMP Description – Inspect Structural BMPs Annually**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 6-9: Establish BMP O&M Procedures | Department of Public Works | Create written O&M Plan for stormwater BMPs within 2 years of the effective date of the permit |
| BMP 6-10: Inspect and maintain stormwater BMPs | Department of Public Works | Inspect and maintain treatment structures annually |

# 9 TMDL and Impaired Waters Controls

## 9.1 Permit Requirements

The 2016 MS4 Permit requires regulated operators of MS4s to determine whether stormwater discharges from their MS4 contribute to any impaired waterbodies, including those subject to an approved TMDL and certain water quality limited waterbodies. Water quality limited waters are any waterbodies that do not meet applicable water quality standards, including waterbodies listed in categories "4a" and "5" on the Massachusetts Integrated List of Waters, also known as the "303(d) List". MassDEP is responsible for preparing TMDLs for many of these listed waters to identify the problem pollutant and establish water quality goals. TMDLs are prepared based on the priority assigned to the waterbody and are being completed over the course of several years.

As outlined in Section 2.3, the Town of Boxborough is subject to the following TMDL and impaired waters requirements:

**Table 9-1. TMDL and Impaired Waters Requirements**

| Waterbody Name | Impairment | 2016 Permit Requirements |
|---|---|---|
| Assabet River | Phosphorus | Appendix F, Part A.V |

Thus, the Town of Boxborough must implement control measures for discharges to approved TMDL waters and to impaired waters without a TMDL as summarized in the sections below.

## 9.2 Assabet River Phosphorus TMDL Requirements

The Town of Boxborough is subject to the phosphorus TMDL requirements for discharges to the Assabet River and thus is require to implement the following requirements as outlined under Appendix F, Part A.V.

### 9.2.1 Additional or Enhanced BMPs

The Town of Boxborough must include the following additional or enhanced BMPs, in addition to the 6 MCMs outlined previously:

- **Public Education** – supplement its Residential and Business/Commercial/Institution programs with additional annual messages as follows:
    - Spring (April-May): Proper use and disposal of grass clippings and use of slow-release and phosphorus-free fertilizers;
    - Summer (June-July): Proper management of pet waste; and
    - Fall (August-October): Proper disposal of leaf litter.

- **Stormwater Management in New Development and Redevelopment** – supplement standard permit bylaw requirements to also mandate the use of

stormwater BMPs optimized for phosphorus removal as part of new development and redevelopment projects. Additionally, retrofit opportunities must consider opportunities for constructing infiltration BMPs for properties within the Assabet River watershed.

- **Good Housekeeping and Pollution Prevention** – establish requirements for reducing fertilizer usage and/or using slow release fertilizers on permittee owned properties, procedures for properly managing grass cuttings and leaf litter on permittee owned property, and prohibit blowing organic waste onto impervious surfaces. Additionally, street sweeping must be increased to at least twice per year, once in the spring and once in the fall.

**Work to be Performed**

Public education requirements have been incorporated into future public education outreach components as described in Section 3. Stormwater management in new and redevelopment will be addressed in the final stormwater regulations being established to meet construction and post-construction requirements. Good housekeeping and pollution prevention requirements have been incorporated into the Town's O&M procedures.

**Table 9-2. TMDL Requirements – Assabet River Phosphorus**

| BMP Description | Responsible Parties | Measurable Goal |
|---|---|---|
| BMP 7-1: TMDL Requirements – Assabet River Phosphorus | Department of Public Works, Conservation Commission, Planning Board, Zoning Board, Building Department | Adhere to requirements in part A.V of Appendix F |

# 10 Annual Reporting

The permittee shall submit annual reports each year of the permit term. The reporting period is a one-year period commencing on the permit effective date, and subsequent anniversaries thereof, except that the first annual report under this permit shall also cover the period from May 1, 2018 to the permit effective date. The annual report is due 90 days from the close of each reporting period, or by September 28 of each year. The annual reports must contain the following relevant information which should be tracked throughout the year, and should be filed within **Appendix H**:

- A self-assessment review of compliance with the permit terms and conditions.
- An assessment of the appropriateness of the selected BMPs.
- The status of any plans or activities, including:
    - Identification of all discharges determined to be causing or contributing to an exceedance of water quality standards and description of response;
    - For discharges subject to TMDL or water quality limited waterbody requirements, identification of BMPs used to address the impairment and assessment of the BMPs effectiveness;
    - For discharges to water quality limited waters a description of each BMP and any deliverables required.
- An assessment of the progress towards achieving the measurable goals and objectives of each of the 6 minimum measures:
    - Evaluation of the public education program including a description of the targeted messages for each audience; method and dates of distribution; methods used to evaluate the program; and any changes to the program.
    - Description of the activities used to promote public participation including documentation of compliance with state public notice regulations.
    - Description of IDDE activities including: status of mapping and results of the ranking and assessment; identification of problem catchments; status of all IDDE Plan components; number and identifier of catchments evaluated; number and identifier of outfalls screened; number of illicit discharges located and removed; gallons of flow removed; identification of tracking indicators and measures of progress; and employee training.
    - Evaluation of construction runoff management including number of project plans reviewed; number of inspections; and number of enforcement actions.
    - Evaluation of stormwater management for new and redevelopment including status of bylaw development; review and status of the street design and barriers to green infrastructure assessment; and inventory status.
    - Status of the O&M Programs.
    - Status of SWPPPs, including inspection results.
- All outfall screening and monitoring data during the reporting period and cumulative for the permit term; and a description of any additional monitoring data received by the permittee during the reporting period.
- Description of activities for the next reporting cycle.
- Description of any changes in identified BMPs or measurable goals.
- Description of activities undertaken by any entity contracted for achieving any measurable goal or implementing any control measure.

# 11 Implementation of Best Management Practices

The Town of Boxborough's Best Management Practices Plan as outlined in the Town's NOI (**Appendix A**) is summarized in **Table 11-1**.

For consistency with the 6 MCMs and impaired water requirements, the BMPs are broken down into 7 categories:

1. Public Education and Outreach;
2. Public Participation and Involvement;
3. Illicit Discharge Detection and Elimination;
4. Construction Site Stormwater Runoff Control;
5. Stormwater Management in New Development and Redevelopment;
6. Good Housekeeping and Pollution Prevention; and
7. TMDL and Water Quality Limited Waterbodies Controls

The BMP tables also outline the measurable goals for each BMP to gauge permit compliance, the responsible party(ies) for implementing each BMP, and an implementation schedule to be used throughout the permit period. In addition to the implementation activities outlined in this plan, the Town will also perform the following activities throughout the duration of the permit:

1. **Program Evaluation** – conduct annual evaluations of the Stormwater Management Program for compliance with permit conditions. The evaluation must include a determination of the appropriateness of the selected BMPs in efforts towards achieving the measurable goals outlined in **Table 11-1**.

2. **Record Keeping** – maintain records that pertain to the Stormwater Management Program for a period of at least 5 years. Records need to be made available to the public and the Town may charge a reasonable fee for copying. Records need not be submitted to EPA or MassDEP unless specifically requested.

3. **Reporting** – submit an annual report to EPA and MassDEP, including the information as noted in Section 10.

Refer to the following link for a copy of the 2016 MA MS4 Permit:
https://www.epa.gov/npdes-permits/massachusetts-small-ms4-general-permit

| Table 11-1. Proposed BMP Plan - Implementation of Phase II Activities | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Year / Schedule | | | | | | |
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| **BMP ID** | **BMP Description** | **Implementation** | **Responsible Dept./Person** | **Measurable Goal** | **Report Section** | **7/1/18-7/1/19** | **7/1/19-7/1/20** | **7/1/20-7/1/21** | **7/1/21-7/1/22** | **7/1/22-7/1/23** | **7/1/23-7/1/24** | |
| **1. Public Education and Outreach** | | | | | | | | | | | | |
| **1-1** | **Residential Education Program** | 1. Provide relevant stormwater information to different audiences via various social media platforms | Information Technology | Follow statewide "Think Blue" campaign on social media platforms | 3.4.1 | * | * | * | * | * | * | |
| | | 2. Provide fact sheets on pet waste management with all dog registrations and renewals | Town Clerk | Provide information with all applications and renewals | | * | * | * | * | * | * | |
| | | 3. Distribute brochures regarding stormwater awareness at Town Hall and Town events | Conservation Commission, Board of Health, Planning Board, Department of Public Works | Continue to provide information at Town Hall and public town events. Distribute brochures to residents. | | * | * | * | * | * | * | |
| | | 4. Provide comprehensive stormwater information on the Town's website, including effects of outdoor activities such as lawn care on water quality; benefits of appropriate on-site infiltration of stormwater; effects of automotive work and car washing on water quality; proper disposal of swimming pool water; proper management of pet waste; and maintenance of septic systems. | Information Technology, Planning Board | Continue to update and maintain the websites | | * | * | * | * | * | * | |
| **1-2** | **Businesses, Institutions, and Commercial Education Program** | 1. Provide comprehensive stormwater information on the Town's website, including effects of outdoor activities such as lawn care on water quality; benefits of appropriate on-site infiltration of stormwater; building maintenance and storage of materials; proper use and storage of salt or other de-icing and anti-icing materials; proper management of waste materials and dumpsters; proper management of parking lot surfaces; proper car care activities; and proper disposal of swimming pool water by entities such as motels, hotels, and health and country clubs. | Information Technology, Planning Board | Continue to update and maintain the websites | 3.4.2 | * | * | * | * | * | * | |
| | | 2. Provide relevant stormwater information to different audiences via various social media platforms | Information Technology | Follow statewide "Think Blue" campaign on social media platforms | | * | * | * | * | * | * | |
| **1-3** | **Developer and Construction Education Program** | 1. Distribute fact sheets or brochures on erosion and sediment control with building permit applications | Planning Board, Zoning Board, Building Department, Conservation Commission | Provide information with all applications | 3.4.3 | * | * | * | * | * | * | |
| | | 2. Provide relevant stormwater information to different audiences via various social media platforms | Information Technology | Follow statewide "Think Blue" campaign on social media platforms | | * | * | * | * | * | * | |
| | | 3. Provide comprehensive stormwater information on the Town's website, including proper sediment and erosion control management practices; information about Low Impact Development (LID) principles and technologies; and information about EPA's construction general permit (CGP). | Information Technology, Planning Board | Continue to update and maintain the websites | | * | * | * | * | * | * | |
| **1-4** | **Industrial Education Program** | 1. Provide relevant stormwater information to different audiences via various social media platforms | Information Technology | Follow statewide "Think Blue" campaign on social media platforms | 3.4.4 | * | * | * | * | * | * | |
| | | 2. Provide web information on equipment maintenance and inspection, material storage, solid waste handling, salt usage, benefits of onsite infiltration, management of parking lot surfaces, and EPA's MSGP. | Information Technology, Planning Board | Continue to update and maintain the websites | | * | * | * | * | * | * | |

| Table 11-1. Proposed BMP Plan - Implementation of Phase II Activities | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Year / Schedule | | | | | | |
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| **BMP ID** | **BMP Description** | **Implementation** | **Responsible Dept./Person** | **Measurable Goal** | **Report Section** | **7/1/18-7/1/19** | **7/1/19-7/1/20** | **7/1/20-7/1/21** | **7/1/21-7/1/22** | **7/1/22-7/1/23** | **7/1/23-7/1/24** | |
| **2. Public Participation and Involvement** | | | | | | | | | | | | |
| **2-1** | **Make SWMP Plan Publicly Available** | 1. Post SWMP Plan on Town website, along with contact name, email address and/or phone number of a contact person at the Town to contact for information or submit comments. | Information Technology, Planning Board | Annual review of stormwater management plan and posting on website. Allow public to comment on the plan at least annually | 4.4.1 | * | * | * | * | * | * | |
| **2-2** | **Habitat Inventory and Monitoring** | 1.Work with volunteers and Land Stewardship Committee to maintain conservation land trails; evaluation of most heavily used trails, recommendation and implementation of improvements to correct drainage issues | Conservation Commission | Continue to evaluate drainage issues on existing trails and recommend improvements for future implementation | 4.4.2 | * | * | * | * | * | * | |
| **2-3** | **Sponsor Household Hazardous Waste Event** | 1. Allow public participation in bi-annual household hazardous waste collection for proper disposal of waste. | Department of Public Works, Board of Health | Allow bi-annual participation in a household hazardous waste event every other year | 4.4.3 | * | | * | | * | | |

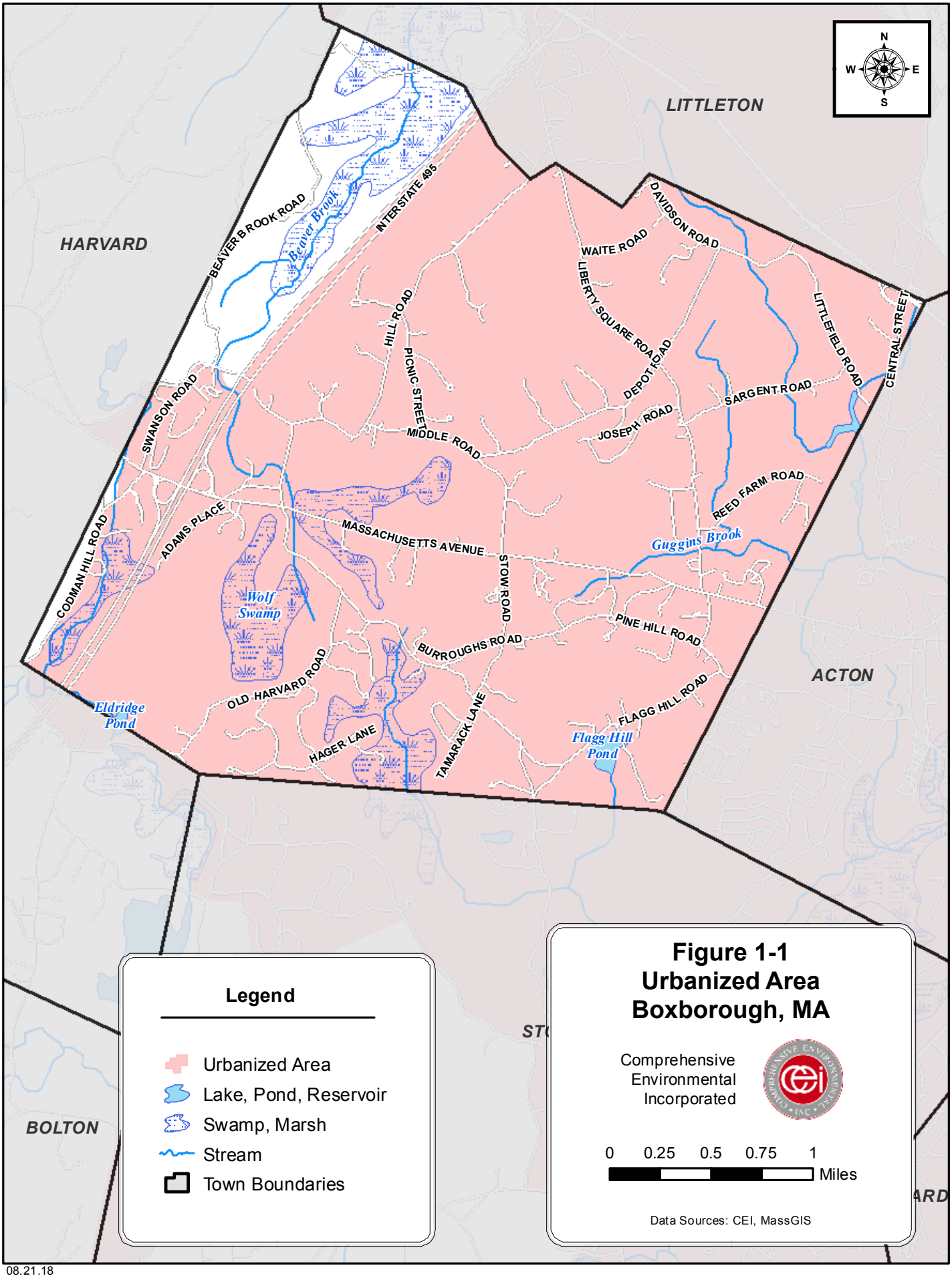
| Table 11-1. Proposed BMP Plan - Implementation of Phase II Activities | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Year / Schedule | | | | | | |
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| **BMP ID** | **BMP Description** | **Implementation** | **Responsible Dept./Person** | **Measurable Goal** | **Report Section** | **7/1/18-7/1/19** | **7/1/19-7/1/20** | **7/1/20-7/1/21** | **7/1/21-7/1/22** | **7/1/22-7/1/23** | **7/1/23-7/1/24** | |
| **3. Illicit Discharge Detection and Elimination** | | | | | | | | | | | | |
| **3-1** | **Enact and Enforce IDDE Bylaw** | 1. Establish a legal authority in order to create an IDDE program to satisfy the 2016 MS4 Permit | Planning Board, Board of Health | Regulatory mechanism in place within 1 year of the permit effective date. | 5.4.1 | * | * | * | * | * | * | |
| **3-2** | **Phase I Storm Sewer System Map** | 1. Delineate catchment areas based on topography for each MS4 outfall and map in GIS. | Department of Public Works, Planning Board | Updated map within 2 years of effective date of permit | 5.4.2 | * | | | | | | |
| | | 2. Update outfalls, conveyances receiving waters, interconnections, MS4-owned BMPs & initial catchment delineations. | | | | * | * | | | | | |
| **3-3** | **Phase II Storm Sewer System Map** | 1. Update outfall spatial location, pipes, manholes, catch basins, refined catchment delineations as new information becomes available. | Department of Public Works, Planning Board | Updated map within 10 years of effective date of permit | 5.4.2 | * | * | * | * | * | * | |
| **3-4** | **Written IDDE Program** | 1. Prepare written IDDE Plan to include procedures on assessing and priority ranking outfalls and interconnections, dry and wet weather outfall sampling, catchment investigations, system vulnerability factor assessment, identification of an illicit discharge, illicit discharge removal, and ongoing screening requirements. | Department of Public Works, Board of Health | Complete within 1 year of the effective date of permit and update as required | 5.4.4 | * | | | | | | |
| **3-5** | **Outfall Inventory and Ranking** | 1. Develop an outfall and interconnection inventory that identifies each outfall and interconnection discharging from the MS4, records its location and condition and provides a framework for tracking inspections, screenings and other activities under the IDDE program. | Department of Public Works | Identification of outfalls and initial ranking by July 1, 2019 | 5.4.4 | * | | | | | | |
| | | 2. Classify/rank outfalls. Initial ranking by end of Year 1. Update ranking annually with new information. | | | | * | * | * | * | * | * | |
| **3-6** | **Implement IDDE Program** | 1. Inspect key catchment structures (manholes, catch basins) during dry weather conditions. Where flowing water is observed, collect samples for analysis. | Department of Public Works, Board of Health | Implement catchment investigations according to program and permit conditions (Problem Outfalls by July 1, 2025, all outfalls by July 1, 2028) | 5.4.4 | | * | * | * | * | * | |
| | | 2. Inspect key catchment structures (manholes, catch basins) in all catchments during dry weather conditions. Where flowing water is observed, collect samples for analysis. | | | | | * | * | * | * | * | |
| **3-7** | **Dry Weather Screening** | 1. Inspect drainage outfalls classified as High or Low priority during dry weather. | Department of Public Works | Complete in accordance with outfall screening procedure and permit conditions by July 1, 2021 | 5.4.5 | * | * | * | | | | |
| | | 2. Investigate potential illicit discharges, if any. | | | | * | * | * | * | * | * | |
| | | 3. Enforce removal of illicit discharges, if any. | | | | * | * | * | * | * | * | |
| **3-8** | **Wet Weather Screening** | 1. Sample select outfalls with System Vulnerability Factors under wet weather conditions. Sampling can be done upon completion of any dry weather investigation, but must be completed before catchment investigation is marked as complete. | Department of Public Works | Complete in accordance with outfall screening procedure within 10 years of the effective permit date | 5.4.5 | | | | | | * | |
| **3-9** | **Ongoing Screening** | 1. Upon completion of catchment investigations, reprioritize outfalls for ongoing screening. | Department of Public Works | Conduct ongoing dry and wet weather outfall screening upon completion of the IDDE program | 5.4.5 | | | | | | * | |
| | | 2. Continue performing dry and wet weather sampling according to the new prioritization at least once every 5 years. | | | | | | | | | * | |
| **3-10** | **Perform IDDE Training** | 1. Provide annual training to employees involved in the IDDE program. | Department of Public Works, Planning Board, Board of Health | Train applicable employees annually | 5.4.6 | * | * | * | * | * | * | |

| Table 11-1. Proposed BMP Plan - Implementation of Phase II Activities | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Year / Schedule | | | | | | |
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| **BMP ID** | **BMP Description** | **Implementation** | **Responsible Dept./Person** | **Measurable Goal** | **Report Section** | **7/1/18-7/1/19** | **7/1/19-7/1/20** | **7/1/20-7/1/21** | **7/1/21-7/1/22** | **7/1/22-7/1/23** | **7/1/23-7/1/24** | |
| **4. Construction Site Stormwater Runoff Control** | | | | | | | | | | | | |
| **4-1** | **Develop and Enforce Construction Bylaw** | 1. Develop and enforce construction bylaw to address control of other wastes at construction sites. | Planning Board, Conservation Commission, Building Department | Complete bylaw updates within 1 year of the effective date of the permit | 6.4.1 | * | | | | | | |
| **4-2** | **Develop Written Procedures for Site Plan Review** | 1. Review and update existing requirements mandating site plan review and make changes as needed, such as incorporating additional information submitted by the public. | Planning Board, Conservation Commission, Building Department | Establish procedures for site plan review within 1 year of the effective date of the permit | 6.4.2 | * | | | | | | |
| **4-3** | **Develop Written Procedures for Site Inspections and Enforcement** | 1. Review and update existing requirements mandating site inspections, enforcement, and requirements for submittal of monthly inspection reports as needed | Planning Board, Conservation Commission, Building Department | Establish procedures for site inspections and enforcement within 1 year of the effective date of the permit | 6.4.3 | * | | | | | | |
| **4-4** | **Establish a Sediment and Erosion Control Program** | 1. Establish procedures for development of an Erosion and Sediment Control Plan for construction site operators performing land disturbance activities. | Planning Board, Conservation Commission, Building Department | Establish procedures for development of an erosion and sediment control program within 1 year of the effective date of the permit | 6.4.4 | * | | | | | | |
| **4-5** | **Develop Procedures for Waste Control** | 1. Establish requirements to control construction site wastes within 1 year of the effective date of the permit | Planning Board, Conservation Commission, Building Department | Establish requirements to control construction site wastes within 1 year of the effective date of the permit | 6.4.4 | * | | | | | | |

| Table 11-1. Proposed BMP Plan - Implementation of Phase II Activities | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Year / Schedule | | | | | | |
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| **BMP ID** | **BMP Description** | **Implementation** | **Responsible Dept./Person** | **Measurable Goal** | **Report Section** | **7/1/18-7/1/19** | **7/1/19-7/1/20** | **7/1/20-7/1/21** | **7/1/21-7/1/22** | **7/1/22-7/1/23** | **7/1/23-7/1/24** | |
| **5. Stormwater Management in New Development and Redevelopment** | | | | | | | | | | | | |
| **5-1** | **Develop and Enforce Post-Construction Bylaw** | 1. Adopt a post-construction stormwater management bylaw that addresses 2016 MS4 Permit requirements. Include a requirement that stormwater management BMPs that ultimately discharge to a phosphorus impaired water body be optimized for phosphorus removal. | Planning Board, Conservation Commission, Building Department | Complete bylaw updates within 2 years of the effective date of the permit | 7.4.1 | * | * | | | | | |
| **5-2** | **Require Stormwater As-Built Plan Submittal** | 1. Require submittal of as-built drawings for structural and non-structural stormwater controls. | Planning Board, Conservation Commission, Building Department | Require submittal of as-built plans for completed projects within 2 years of completion | 7.4.2 | * | * | | | | | |
| **5-3** | **Require Long Term Operation and Maintenance** | 1. Establish procedures to require long term operation and maintenance of BMPs, such as addressing funding sources. | Planning Board, Conservation Commission, Building Department | Require submittal of operation and maintenance plans to ensure long term maintenance within 2 years of the effective date of the permit | 7.4.3 | * | * | | | | | |
| **5-4** | **Street Design and Parking Lot Guidelines** | 1. Review existing by-laws, regulations and guidance pertaining to current street and parking lot design and all regulations for ability to incorporate LID into designs. | Planning Board, Conservation Commission, Zoning Board | Complete regulatory updates within 4 years of the effective date of the permit | 7.4.4 | | * | * | | | | |
| | | 2. Prepare a report assessing whether existing street and parking lot design regulations allow for incorporation of LID practices and recommendations for changes. | | | | | | | * | | | |
| **5-5** | **Allow Green Infrastructure** | 1. Review existing by-laws, regulations and guidance to determine the feasibility of making green practices allowable. | Planning Board, Conservation Commission, Zoning Board | Complete regulatory updates within 4 years of the effective date of the permit | 7.4.4 | | * | * | | | | |
| | | 2. Prepare a report assessing existing local regulations to determine the feasibility of allowing green roofs, infiltration practices, and water harvesting devices. | | | | | | | * | | | |
| **5-6** | **Target Properties to Reduce Impervious Area** | 1. Identify 5 properties for potential retrofits to stormwater impacts, as well as phosphorus impacts to the Charles River Watershed. | Planning Board, Conservation Commission | Complete inventory within 4 years of the effective date of the permit and update annually on retrofitted properties | 7.4.5 | | | | * | | | |
| | | 2. Track and report annually properties that have been modified or retrofitted with BMPs. | | | | | | | * | * | * | |

| Table 11-1. Proposed BMP Plan - Implementation of Phase II Activities | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Year / Schedule | | | | | | |
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| **BMP ID** | **BMP Description** | **Implementation** | **Responsible Dept./Person** | **Measurable Goal** | **Report Section** | **7/1/18-7/1/19** | **7/1/19-7/1/20** | **7/1/20-7/1/21** | **7/1/21-7/1/22** | **7/1/22-7/1/23** | **7/1/23-7/1/24** | |
| **6. Good Housekeeping and Pollution Prevention** | | | | | | | | | | | | |
| **6-1** | **Inventory Open Spaces, Buildings and Facilities, and Vehicles and Equipment** | 1. Inventory all permittee-owned parks and open spaces, building and facilities (including storm drains), and vehicles and equipment in the regulated area. | Department of Public Works, Permanent Building Committee | Complete inventory of open spaces, buildings and facilities, and vehicles and equipment within 2 years of the effective date of the permit | 8.3.1 | | * | | | | | |
| **6-2** | **Create Written O&M Procedures for MS4 Properties** | 1. Evaluate practices at MS4 properties (parks and open spaces, building and facilities, vehicles and equipment) and develop written Facilities O&M Plan. | Department of Public Works | Create written O&M Plan for open spaces, buildings and facilities, and vehicles and equipment within 2 years of the effective date of the permit | 8.3.1 | | * | | | | | |
| | | 2. Distribute written O&M/SOPs as part of employee training. | | | | | * | | | | | |
| | | 3. Update inventory annually | | | | | * | * | * | * | * | |
| | | 4. Ensure all vehicle maintenance and washing is performed indoors. | | | | * | * | * | * | * | * | |
| **6-3** | **Create Written O&M Procedures for MS4 Infrastructure** | 1. Develop written O&M procedures or SOPs for the storm drain system, roadways and existing Town-owned BMPs (e.g., catch basin cleaning, street sweeping, winter road maintenance, stormwater BMPs). | Department of Public Works | Create written O&M Plan for stormwater system within 2 years of the permit effective date. | 8.3.2 | | * | | | | | |
| | | 2. Distribute written O&M/SOPs as part of employee training. | | | | | * | | | | | |
| **6-4** | **Catch Basin Cleaning** | 1. Establish a cleaning schedule and maintain catch basins so that they remain less than 50% full of sediment. | Department of Public Works | Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually | 8.3.2 | As Needed | | | | | | |
| | | 2. Properly manage storage of catch basin residuals. | | | | * | * | * | * | * | * | |
| **6-5** | **Street Sweeping** | 1. Sweep streets once a year in spring and twice a year where drainage is to a phosphorus impaired water. | Department of Public Works | Sweep all streets and parking lots at least annually and sweep all streets within the Charles River watershed twice per year. | 8.3.2 | * | * | * | * | * | * | |
| | | 2. Properly manage storage of street sweeping residuals. | | | | | | | | | | |
| **6-6** | **Develop Road Salt Optimization Program** | 1. Establish and implement procedures for proper winter road maintenance, including use and storage of salt and sand, and procedures to minimize the use of road salt. | Department of Public Works | Implement salt use optimization during winter maintenance operations | 8.3.2 | * | | | | | | |
| **6-7** | **Assess Regulated Facilities to Determine SWPPP Eligibility** | 1. Evaluate the need for SWPPPs for municipal maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater. Complete SWPPP or document No Exposure as applicable. | Department of Public Works | Document whether a SWPPP is needed and where required, prepare SWPPP by July 1, 2020. | 8.3.3 | | * | | | | | |
| **6-8** | **Develop SWPPPs for Applicable Facilities** | 1. Complete SWPPP or document No Exposure as applicable. | Department of Public Works | Prepare SWPPP if needed by July 1, 2020. | 8.3.3 | | * | | | | | |
| **6-9** | **Establish BMP O&M Procedures** | 1. Establish written inspection and maintenance procedures and frequencies for inspection of all structural stormwater BMPs. | Department of Public Works | Create written O&M Plan for stormwater BMPs within 2 years of the effective date of the permit | 8.3.4 | | * | | | | | |
| **6-10** | **Inspect and Maintain Stormwater BMPs** | 1. Annually inspect MS4-owned stormwater treatment BMPs. Document inspections and maintenance performed. | Department of Public Works | Inspect and maintain treatment structures annually | 8.3.4 | | * | * | * | * | * | |

| Table 11-1. Proposed BMP Plan - Implementation of Phase II Activities | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Year / Schedule | | | | | | |
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| **BMP ID** | **BMP Description** | **Implementation** | **Responsible Dept./Person** | **Measurable Goal** | **Report Section** | **7/1/18-7/1/19** | **7/1/19-7/1/20** | **7/1/20-7/1/21** | **7/1/21-7/1/22** | **7/1/22-7/1/23** | **7/1/23-7/1/24** | |
| **7. TMDL and Impaired Waters Controls** | | | | | | | | | | | | |
| **7-1** | **Discharges to Approved TMDL Waterbodies - Phosphorus (Assabet River)** | 1. Enhanced BMPs - Public Education. Include fertilizer use, disposal of grass clippings and leaf litter, and pet waste management with the Residential and Commercial public education programs. | Department of Public Works, Conservation Commission, Planning Board, Zoning Board, Building Department | Distribute materials with Residential and Commercial education programs. | 9.2.1 | * | * | * | * | * | * | |
| | | 2. Enhanced BMPs - Stormwater Management in New Development and Redevelopment. Include a requirement in the regulatory mechanism that new development and redevelopment stormwater management BMPs be optimized for phosphorus removal. | | Complete bylaw updates within 2 years of the effective date of the permit | | * | * | | | | | |
| | | 3. Enhanced BMPs - Consider BMPs to infiltrate stormwater where feasible when identifying MS4 properties for retrofits. | | Evaluate stormwater BMPs for stormwater infiltration during facility inventory within 2 years of the effective date of the permit | | * | * | | | | | |
| | | 4. Enhanced BMPs - Good Housekeeping and Pollution Prevention. Incorporate phosphorus reduction practices into Town good housekeeping practices such as fertilizer use and managing grass cuttings and leaf litter. | | Create written O&M Plan for open spaces, buildings and facilities, and vehicles and equipment within 2 years of the effective date of the permit | | | * | | | | | |
| | | 5. Enhanced BMPs - Good Housekeeping and Pollution Prevention. Increase street sweeping to twice per year (spring and fall) for catchment areas that discharge to MS4 areas within the Assabet River watershed. | | Sweep all streets and parking lots within the Charles River watershed twice per year. | | * | * | * | * | * | * | |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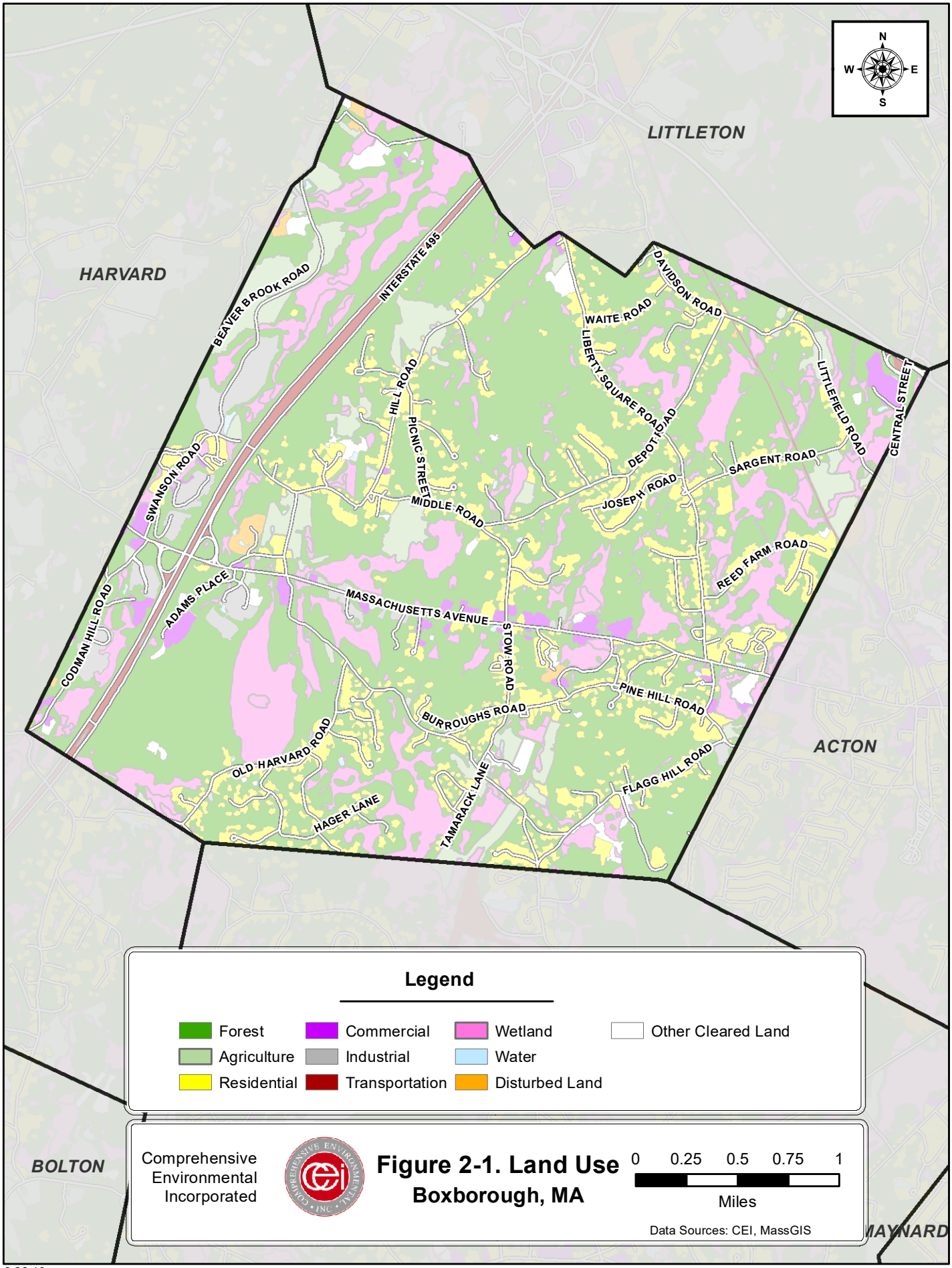
CENTRAL STREET
SARGENT ROAD
SWANSON ROAD
JOSEPH ROAD
MIDDLE ROAD
REED FARM ROAD
ADAMS PLACE
CODMAN HILL ROAD
MASSACHUSETTS AVENUE
Guggins Brook
STOW ROAD
Wolf Swamp
PINE HILL ROAD
BURROUGHS ROAD
OLD HARVARD ROAD
FLAGG HILL ROAD
Eldridge Pond
HAGER LANE
TAMARACK LANE
Flagg Hill Pond
Legend
Urbanized Area
Lake, Pond, Reservoir
Swamp, Marsh
Stream
Town Boundaries
Figure 1-1
Urbanized Area
Boxborough, MA
Comprehensive Environmental Incorporated
0 0.25 0.5 0.75 1
Miles
Data Sources: CEI, MassGIS

08.21.18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MASSACHUSETTS AVENUE
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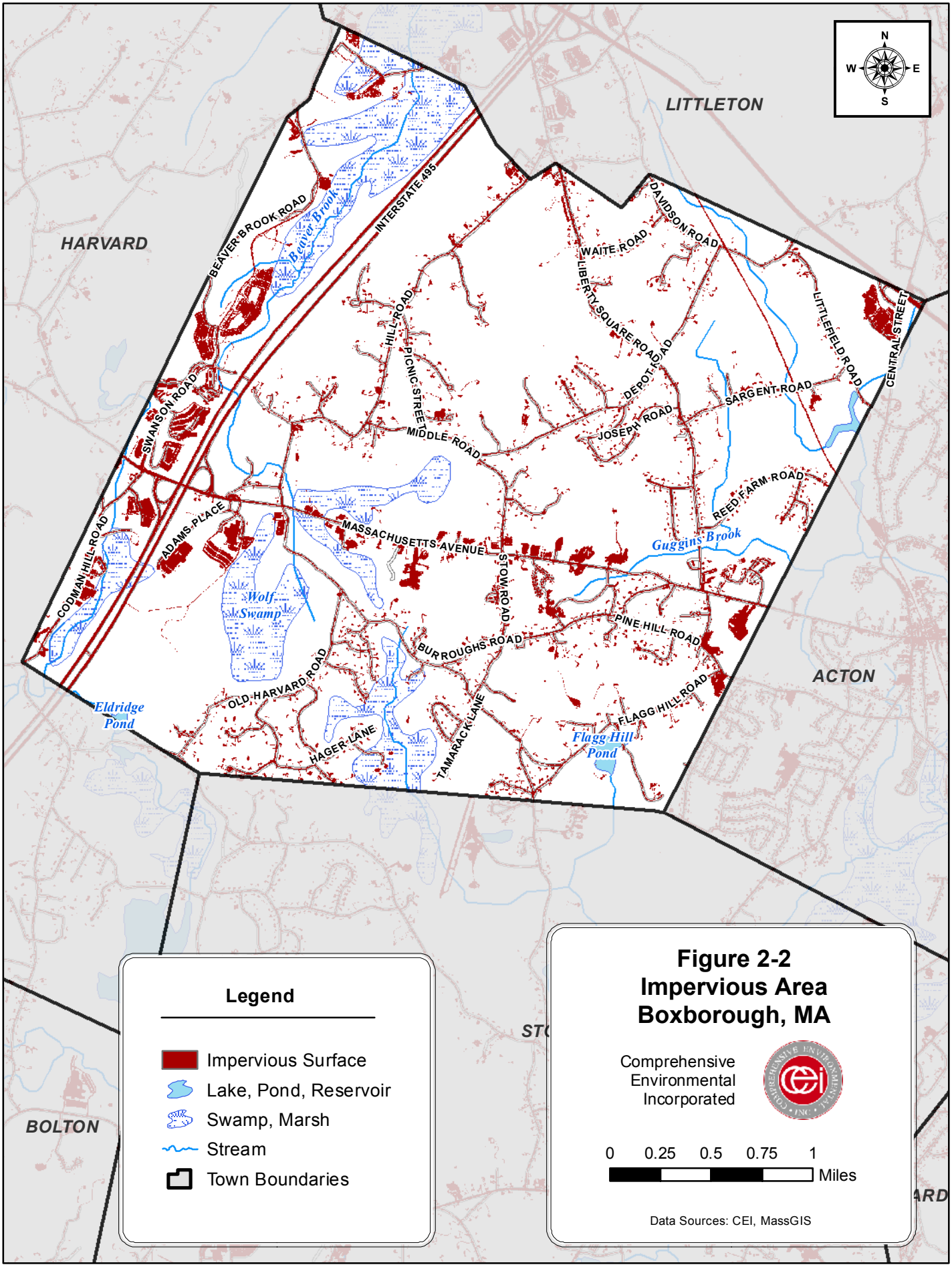
PINE HILL ROAD
BURROUGHS ROAD
OLD HARVARD ROAD
FLAGG HILL ROAD
HAGER LANE
TAMARACK LANE
Legend
Forest
Agriculture
Residential
Commercial
Industrial
Transportation
Wetland
Water
Disturbed Land
Other Cleared Land
Comprehensive Environmental Incorporated
Figure 2-1. Land Use
Boxborough, MA
0 0.25 0.5 0.75 1
Miles
Data Sources: CEI, MassGIS

6.26.19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WAITE ROAD
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LITTLEFIELD ROAD
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JOSEPH ROAD
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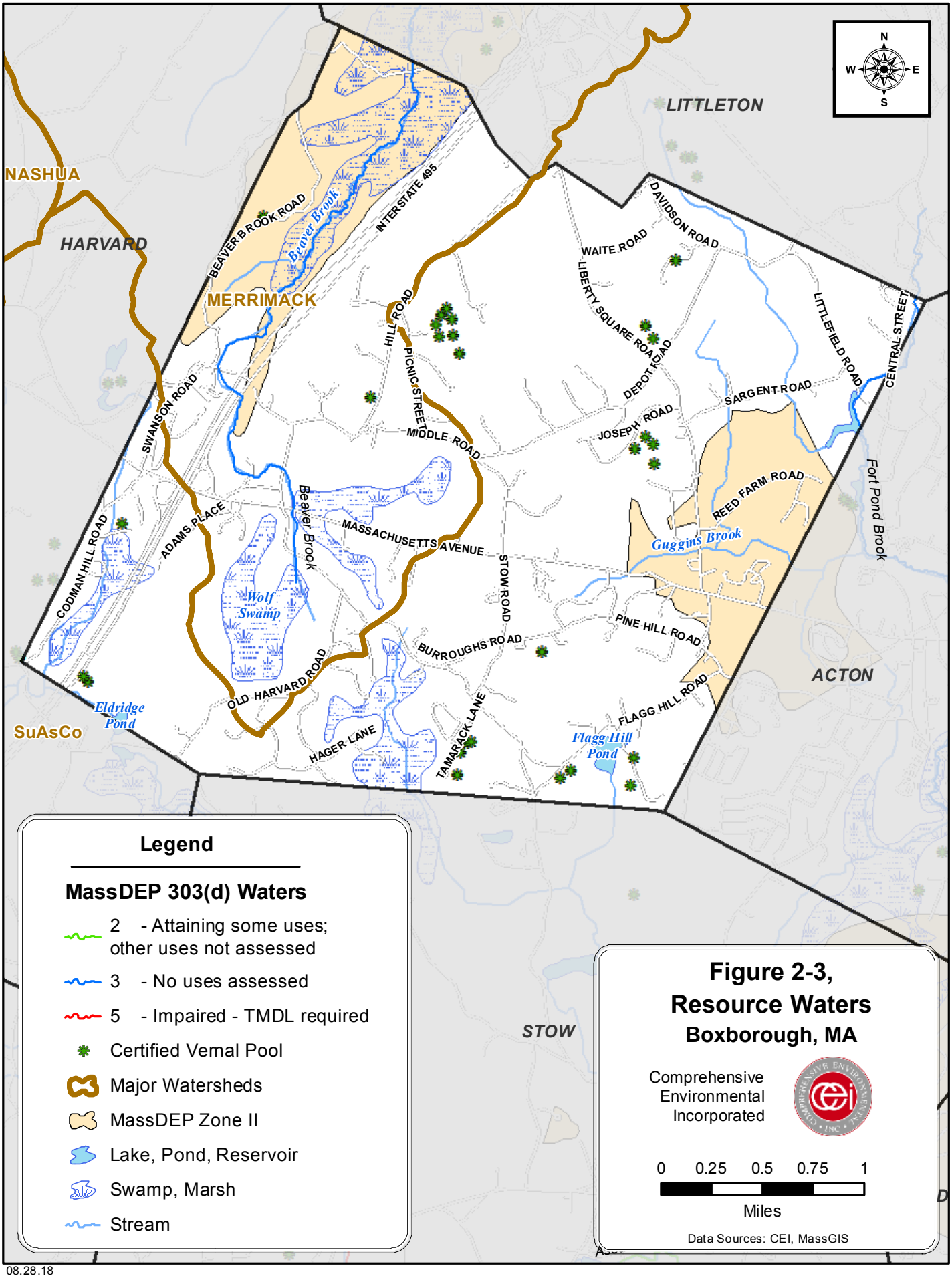
REED FARM ROAD
CODMAN HILL ROAD
ADAMS PLACE
MASSACHUSETTS AVENUE
Guggins Brook
STOW ROAD
Wolf Swamp
PINE HILL ROAD
BURROUGHS ROAD
OLD HARVARD ROAD
FLAGG HILL ROAD
Eldridge Pond
HAGER LANE
TAMARACK LANE
Flagg Hill Pond
Legend
Impervious Surface
Lake, Pond, Reservoir
Swamp, Marsh
Stream
Town Boundaries
Figure 2-2
Impervious Area
Boxborough, MA
Comprehensive
Environmental
Incorporated
0
0.25
0.5
0.75
1
Miles
Data Sources: CEI, MassGIS

08.21.18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LIBERTY SQUARE ROAD
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CENTRAL STREET
SARGENT ROAD
JOSEPH ROAD
REED FARM ROAD
Fort Pond Brook
Guggins Brook
SWANSON ROAD
CODMAN HILL ROAD
ADAMS PLACE
Beaver Brook
MASSACHUSETTS AVENUE
STOW ROAD
Wolf Swamp
PINE HILL ROAD
BURROUGHS ROAD
OLD HARVARD ROAD
FLAGG HILL ROAD
Eldridge Pond
HAGER LANE
TAMARACK LANE
Flagg Hill Pond
Legend
MassDEP 303(d) Waters
2 - Attaining some uses; other uses not assessed
3 - No uses assessed
5 - Impaired - TMDL required
Certified Vernal Pool
Major Watersheds
MassDEP Zone II
Lake, Pond, Reservoir
Swamp, Marsh
Stream
Figure 2-3,
Resource Waters
Boxborough, MA
Comprehensive Environmental Incorporated
0 0.25 0.5 0.75 1
Miles
Data Sources: CEI, MassGIS

08.28.18

# Appendix A

## Notice of Intent and Authorization to Discharge

# Notice of Intent (NOI) for coverage under Small MS4 General Permit



Part I: General Conditions

## General Information

Name of Municipality or Organization: Town of Boxborough State: MA

EPA NPDES Permit Number (if applicable): MA941183

## Primary MS4 Program Manager Contact Information

Name: Adam L. Duchesneau, AICP Title: Town Planner

Street Address Line 1: 29 Middle Road

Street Address Line 2:

City: Boxborough State: MA Zip Code: 01719

Email: ADuchesneau@Boxborough-MA.gov Phone Number: (978) 264-1723

Fax Number: (978) 264-3127

## Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed):

## Eligibility Determination

Endangered Species Act (ESA) Determination Complete? Yes

Eligibility Criteria (check all that apply): ☐ A ☒ B ☐ C

National Historic Preservation Act (NHPA) Determination Complete? Yes

Eligibility Criteria (check all that apply): ☒ A ☐ B ☐ C

☑ Check the box if your municipality or organization was covered under the 2003 MS4 General Permit

## MS4 Infrastructure (if covered under the 2003 permit)

**Estimated Percent of Outfall Map Complete?** *(Part II, III, IV or V, Subpart B.3.(a.) of 2003 permit)* 90%

If 100% of 2003 requirements not met, enter an estimated date of completion (MM/DD/YY): 06/30/19

Web address where MS4 map is published:

*If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission (see section V for submission options)*

## Regulatory Authorities (if covered under the 2003 permit)

**Illicit Discharge Detection and Elimination (IDDE) Authority Adopted?** *(Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit)* Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 08/22/07

**Construction/Erosion and Sediment Control (ESC) Authority Adopted?** *(Part II,III,IV or V, Subpart B.4.(a.) of 2003 permit)* Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 04/11/11

**Post- Construction Stormwater Management Adopted?** *(Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)* Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 04/11/11

# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part II: Summary of Receiving Waters

Please list the waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any impairments.

*Massachusetts list of impaired waters:* *Massachusetts 2014 List of Impaired Waters-* http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf

Check off relevant pollutants for discharges to impaired waterbodies (see above 303(d) lists) without an approved TMDL in accordance with part 2.2.2.a of the permit. List any other pollutants in the last column, if applicable.

| Waterbody segment that receives flow from the MS4 | Number of outfalls into receiving water segment | Chloride | Chlorophyll-a | Dissolved Oxygen/ DO Saturation | Nitrogen | Oil & Grease/ PAH | Phosphorus | Solids/ TSS/ Turbidity | E. coli | Enterococcus | Other pollutant(s) causing impairments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MA84B-05 Beaver Brook | 1 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Guggins Brook | 3 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Unnamed tributary to Guggins Brook | 3 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Unnamed tributary to Halfmoon Meadow Brook | 2 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
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Click to lengthen table

# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs). For municipalities/organizations whose MS4 discharges into a receiving water with an approved Total Maximum Daily Load (TMDL) and an applicable waste load allocation (WLA), identify any additional BMPs employed to specifically support the achievement of the WLA in the TMDL section at the end of part III.

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also requires a target audience). **Use the drop-down menus in each table or enter your own text to override the drop down menu.**

### MCM 1: Public Education and Outreach

| **BMP Media/Category** (enter your own text to override the drop down menu) | **BMP Description** | **Targeted Audience** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|---|
| Brochures/Pamphlets | Distribute fact sheets or brochures on pet waste pickup with dog licenses. | Residents | Town Clerk | Provide information with all applications and renewals. | 2018 |
| Web Page | Provide web information on septic system maintenance, illicit discharges, pet waste disposal, lawn care, pesticide and fertilizer use, grass clippings and leaf litter disposal, car washing, and use of environment-ally friendly products. | Residents | Information Technology, Planning Board | Continue to update and maintain the websites. | 2018 |
| Brochures/Pamphlets | Distribute brochures regarding illicit storm drain dumping, private septic system and well maintenance, pet waste disposal, lawn care, pesticides and fertilizers, and Hazardous Waste Collection Day at Town events. | Residents | Conservation Commission, Board of Health, Planning Board, Depar | Continue to provide information at Town events and continue to make educational materials available to the residents at town events and meetings. | 2018 |

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|---|---|---|---|---|---|
| Web Page | Provide web information on pesticide and fertilizer use, grass clippings and leaf litter disposal, building maintenance, salt usage, storage of materials and wastes, car washing, benefits of infiltration, and use of environmentally friendly products. | Businesses, Institutions, and Commercial Facilities | Information Technology, Planning Board | Continue to update and maintain the websites. | 2018 |
| Web Page | Provide web information on erosion and sediment control, Low Impact Development, and the NPDES Construction General Permit. | Developers (construction) | Information Technology, Planning Board | Creation of website with periodic updates. | 2018 |
| Brochures/Pamphlets | Distribute fact sheets or brochures on erosion and sediment control with permit applications. | Developers (construction) | Planning Board, Zoning Board, Building Department, Conservatior | Provide information with all applications | 2018 |
| Web Page | Provide web information on equipment maintenance and inspection, material storage, solid waste handling, salt usage, benefits of onsite infiltration, management of parking lot surfaces, and EPA's MSGP. | Industrial | Information Technology, Planning Board | Creation of website with periodic updates. | 2018 |
| Social Media | Provide relevant stormwater information to different audiences via social media. | Residents, Businesses, Institutions, Commercial Facilities, Developers (construction), Industrial | Information Technology | Follow statewide "Think Blue" campaign on social media platforms. | 2019 |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary (continued)

### MCM 2: Public Involvement and Participation

| BMP Categorization | Brief BMP Description (enter your own text to override the drop down menu) | Responsible Department/Parties (enter your own text to override the drop down menu) | Additional Description/ Measurable Goal | Beginning Year of BMP Imple-mentation |
|---|---|---|---|---|
| Public Review | SWMP Review | Information Technology, Planning Board | Allow annual review of stormwater management plan and posting of stormwater management plan on website. | 2018 |
| Public Participation | Develop and upload SWMP to the Town website and provide a link t | Information Technology, Planning Board | Allow public to comment on stormwater management plan annually. | 2018 |
| Public Participation | Land Stewardship Program for Conservation Lands | Conservation Commission | Continue to evaluate drainage issues on existing trails and recommend improvements. | 2018 |
| Public Participation | Allow community participation in bi-annual Hazardous Waste Collec | Department of Public Works, Board of Health | Allow bi-annual participation in a household hazardous waste event every other year. | 2018 |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary (continued)

### MCM 3: Illicit Discharge Detection and Elimination (IDDE)

| **BMP Categorization** (enter your own text to override the drop down menu) | **BMP Description** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** (all text can be overwritten) | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|
| SSO inventory | Develop SSO inventory in accordance of permit conditions | Department of Public Works, Planning Board, Board of Health | Complete within 1 year of effective date of permit | 2018 |
| Storm sewer system map | Create map and update during IDDE program completion | Department of Public Works, Planning Board | Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit | 2018 |
| Written IDDE program | Create written IDDE program | Department of Public Works, Planning Board | Complete within 1 year of the effective date of permit and update as required | 2018 |
| Implement IDDE program | Implement catchment investigations according to program and permit conditions | Department of Public Works, Board of Health | Complete 10 years after effective date of permit | 2020 |
| Employee training | Train employees on IDDE implementation | Department of Public Works, Planning Board, Board of Health | Train annually | 2018 |
| Conduct dry weather screening | Conduct in accordance with outfall screening procedure and permit conditions | Department of Public Works | Complete 3 years after effective date of permit | 2019 |
| Conduct wet weather screening | Conduct in accordance with outfall screening procedure | Department of Public Works | Complete 10 years after effective date of permit | 2028 |
| Ongoing screening | Conduct dry weather and wet weather screening (as necessary) | Department of Public Works | Complete ongoing outfall screening upon completion of IDDE program | 2024 |
| IDDE Ordinance/Bylaw | Enforce existing IDDE bylaw | Planning Board, Board of Health | Continue to enforce IDDE bylaw, adopted in 2007 | 2018 |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary (continued)

### MCM 4: Construction Site Stormwater Runoff Control

| **BMP Categorization** (enter your own text to override the drop down menu or entered text) | **BMP Description** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** (all text can be overwritten) | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|
| Site inspection and enforcement of Erosion and Sediment Control (ESC) measures | Complete written procedures of site inspections and enforcement procedures | Planning Board, Conservation Commission, Building Department | Complete within 1 year of the effective date of permit | 2018 |
| Site plan review | Complete written procedures of site plan review and begin implementation | Planning Board, Conservation Commission, Building Department | Complete within 1 year of the effective date of permit | 2018 |
| Erosion and Sediment Control | Adoption of requirements for construction operators to implement a sediment and erosion control program | Planning Board, Conservation Commission, Building Department | Complete within 1 year of the effective date of permit | 2018 |
| Waste Control | Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes | Planning Board, Conservation Commission, Building Department | Complete within 1 year of the effective date of permit | 2018 |
| Construction Ordinance/ Bylaw | Enforce existing construction site stormwater runoff control bylaw and accompanying rules and regulations | Planning Board, Conservation Commission, Building Department | Continue to enforce bylaw, rules and regulations | 2018 |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

| **BMP Categorization** (enter your own text to override the drop down menu or entered text) | **BMP Description** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** (all text can be overwritten) | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|
| As-built plans for on-site stormwater control | The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP | Planning Board, Conservation Commission, Building Department | Require submission of as-built plans for completed projects | 2018 |
| Target properties to reduce impervious areas | Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually | Planning Board, Conservation Commission | Complete 4 years after effective date of permit and report annually on retrofitted properties | 2020 |
| Allow green infrastructure | Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist | Planning Board, Conservation Commission, Building Department, | Complete 4 years after effective date of permit and implement recommendations of report | 2020 |
| Street design and parking lot guidelines | Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options. | Planning Board, Conservation Commission, Zoning Board | Complete 4 years after effective date of permit and implement recommendations of report | 2020 |

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|---|---|---|---|---|
| Ensure any stormwater controls or management practices for new development and redevelopment meet the retention or treatment requirements of the permit and all applicable requirements of the Massachusetts Stormwater Handbook | Adoption, amendment, or modification of a regulatory mechanism to meet permit requirements | Planning Board, Conservation Commission, Building Department | Complete 2 years after effective date of permit | 2019 |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary (continued)

## MCM 6: Municipal Good Housekeeping and Pollution Prevention

| **BMP Categorization** (enter your own text to override the drop down menu or entered text) | **BMP Description** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** (all text can be overwritten) | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|
| O&M procedures | Create written O&M procedures including all requirements contained in 2.3.7.a.ii for parks and open spaces, buildings and facilities, and vehicles and equipment | Department of Public Works | Complete and implement 2 years after effective date of permit | 2019 |
| Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment | Create inventory | Department of Public Works, Permanent Building Committee | Complete 2 years after effective date of permit and implement annually | 2019 |
| Infrastructure O&M | Establish and implement program for repair and rehabilitation of MS4 infrastructure | Department of Public Works | Complete 2 years after effective date of permit | 2019 |
| Stormwater Pollution Prevention Plan (SWPPP) | Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities | Department of Public Works | Complete and implement 2 years after effective date of permit | 2019 |
| Catch basin cleaning | Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule | Department of Public Works | Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually | 2018 |
| Street sweeping program | Sweep all streets and permitee-owned parking lots in accordance with permit conditions | Department of Public Works | Sweep all streets and permitee-owned parking lots once per year in the spring | 2018 |
| Road salt use optimization program | Establish and implement a program to minimize the use of road salt | Department of Public Works | Implement salt use optimization during deicing season | 2018 |

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| Inspections and maintenance of stormwater treatment structures | Establish and implement inspection and maintenance procedures and frequencies | Department of Public Works | Inspect and maintain treatment structures at least annually | 2018 |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary (continued)

### Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

| Applicable TMDL | Action Description | Responsible Department/Parties (enter your own text to override the drop down menu) |
|---|---|---|
| Assabet River (Phosphorus) | Adhere to requirements in part A.V of Appendix F | Department of Public Works, Conservation Commission, Planning Bo |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part III: Stormwater Management Program Summary (continued)

### Actions for Meeting Requirements Related to Water Quality Limited Waters

Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

| Pollutant | Waterbody ID(s) | Action Description | Responsible Department/Parties (enter your own text to override the drop down menu) |
|---|---|---|---|
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Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.1and 2.2.2 that you have identified as not applicable to your MS4 because you do not discharge to the impaired water body or a tributary to an impaired water body due to nitrogen or phosphorus. Provide all supporting documentation below or attach additional documents if necessary.
Also, provide any additional information about your MS4 program below.

Because the Town of Boxborough's population relies entirely on septic systems for wastewater management, SSO considerations will not apply to the Town's program.

Part V: 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: | Susan Bak | Title: | Chair, Board of Selectmen |
| Signature: | Susan M Bak | Date: | 9-10-2018 |

*[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]*

Note: When prompted during signing, save the document under a new file name

# United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
http://www.fws.gov/newengland


In Reply Refer To: July 27, 2018
Consultation Code: 05E1NE00-2018-SLI-2539
Event Code: 05E1NE00-2018-E-05955
Project Name: Boxboro MS4 Endangered Species Review

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

# Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**New England Ecological Services Field Office**
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

# Project Summary

Consultation Code: 05E1NE00-2018-SLI-2539

Event Code: 05E1NE00-2018-E-05955

Project Name: Boxboro MS4 Endangered Species Review

Project Type: LAND - DRAINAGE

Project Description: Determination of impact of stormwater discharges and discharge related activities to threatened and endangered species per Appendix C of the MA MS4 General Permit. Stormwater discharge occurs from pre-existing outfalls within the regulated zone, as shown on the map.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/42.6313844732382N71.38365809056398W

Counties: Essex, MA | Middlesex, MA | Worcester, MA

# Endangered Species Act Species

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Mammals

| NAME | STATUS |
|---|---|
| Northern Long-eared Bat *Myotis septentrionalis*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/9045 | Threatened |

## Birds

| NAME | STATUS |
|---|---|
| Red Knot *Calidris canutus rufa*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/1864 | Threatened |
| Roseate Tern *Sterna dougallii dougallii*<br>Population: northeast U.S. nesting pop.<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/2083 | Endangered |

## Flowering Plants

| NAME | STATUS |
| --- | --- |
| Small Whorled Pogonia *Isotria medeoloides*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/1890 | Threatened |

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION 1**
**5 POST OFFICE SQUARE, SUITE 100**
**BOSTON, MA 02109-3912**

**VIA EMAIL**

March 5, 2019

Susan Bak
Chair, Board of Selectmen

And;

Adam Duchesneau
Town Planner
29 Middle Rd
Boxborough, MA. 01719
aduchesneau@boxborough-ma.gov

Re: National Pollutant Discharge Elimination System Permit ID #: MAR041183, Town of Boxborough

Dear Adam Duchesneau:

The 2016 NPDES General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in Massachusetts (MS4 General Permit) is a jointly issued EPA-MassDEP permit. Your Notice of Intent (NOI) for coverage under this MS4 General Permit has been reviewed by EPA and appears to be complete. You are hereby granted authorization by EPA and MassDEP to discharge stormwater from your MS4 in accordance with the applicable terms and conditions of the MS4 General Permit, including all relevant and applicable Appendices. This authorization to discharge expires at midnight on **June 30, 2022.**

For those permittees that certified Endangered Species Act eligibility under Criterion C in their NOI, this authorization letter also serves as EPA's concurrence with your determination that your discharges will have no effect on the listed species present in your action area, based on the information provided in your NOI.

As a reminder, your first annual report is due by **September 30, 2019** for the reporting period from May 1, 2018 through June 30, 2019.

Information about the permit and available resources can be found on our website: https://www.epa.gov/npdes-permits/massachusetts-small-ms4-general-permit. Should you have any questions regarding this permit please contact Newton Tedder at tedder.newton@epa.gov or (617) 918-1038.

Sincerely,

Thelma Murphy, Chief
Stormwater and Construction Permits Section
Office of Ecosystem Protection
United States Environmental Protection Agency, Region 1

and;

Lealdon Langley, Director
Wetlands and Wastewater Program
Bureau of Water Resources
Massachusetts Department of Environmental Protection

# Appendix B

## Regulatory Review and Legal Authority

# CONSTRUCTION AND POST-CONSTRUCTION STORMWATER BYLAW

## SECTION 1. PURPOSE

The purpose of this Bylaw is to establish minimum stormwater management requirements and procedures in order to minimize damage to public and private property and infrastructure; safeguard the public health, safety, environment and general welfare; protect aquatic resources and wildlife habitat; protect the quality and health of water resources; conserve groundwater supplies; and, foster climate change resiliency.

This Bylaw seeks to meet that purpose through the following objectives:

1. establish the Town of Boxborough Planning Board as the legal authority to ensure compliance with the provisions of this Bylaw and its accompanying Rules and Regulations through a reviewal process, inspections, monitoring, and enforcement;
2. establish administrative procedures for: the submission, review, and approval or disapproval of Stormwater Management Permits; the inspection of approved active projects; and post construction monitoring;
3. establish decision-making processes surrounding new development and redevelopment that protect watershed integrity and preserves and/or restores the health of local water resources such as lakes, ponds, streams, rivers, wetlands, and groundwater; and
4. ensure compliance with requirements of the United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4) and other applicable state and federal mandates.

## SECTION 2. DEFINITIONS

For the purposes of this Bylaw, the following shall mean:

AGRICULTURAL USE: The normal maintenance or improvement of land in agricultural or aquacultural use, as defined by the Massachusetts Wetlands Protection Act, M.G.L. c. 131, § 40, and its implementing regulations.

APPLICANT: Any person, individual, partnership, association, firm, company, corporation, trust, authority, agency, department, or political subdivision, of the Commonwealth of Massachusetts or the federal government to the extent permitted by law requesting a Stormwater Management Permit for proposed Disturbance of Land activity.

CERTIFICATE OF COMPLETION: Document issued by the Town of Boxborough Planning Board or its Reviewing Agent upon receipt of a final inspection report and acknowledgement that all conditions of the Stormwater Management Permit have been satisfactorily completed.

CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC): A certified specialist in soil erosion and sediment control. This certification program, sponsored by the Soil and Water Conservation Society in cooperation with the American Society of Agronomy, provides the public with evidence of professional qualifications.

DISTURBANCE OF LAND: Action to alter the existing vegetation and/or underlying soil of a site, such as clearing, grading, site preparation (e.g., excavating, cutting, and filling), soil compaction, and movement and stockpiling of top soils.

ENFORCEMENT ORDER: A written order issued by the Planning Board or its Reviewing Agent to enforce the provisions of this Bylaw.

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MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) or MUNICIPAL STORM DRAIN SYSTEM: The system of conveyances designed or used for collecting or conveying stormwater, including any road with a drainage system, street, gutter, curb, inlet, piped storm drain, pumping facility, retention or detention basin, natural or man-made or altered drainage channel, reservoir, and other drainage structure that together comprise the storm drainage system owned or operated by the Town of Boxborough.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER DISCHARGE PERMIT: A permit issued by the EPA or jointly with the Commonwealth of Massachusetts that authorizes the discharge of stormwater to waters of the Unites States.

NEW DEVELOPMENT: Any construction activities or land alteration resulting in total earth disturbances greater than 1 acre (or activities that are part of a larger common plan of development disturbing greater than 1 acre) on an area that has not previously been developed to include impervious cover.

OWNER: A person with a legal or equitable interest in property.

PERSON: An individual, partnership, association, firm, company, trust, corporation, agency, authority, department or political subdivision of the Commonwealth of Massachusetts or the federal government, to the extent permitted by law, and any officer, employee, or agent of such person.

PLANNING BOARD: Town of Boxborough Planning Board.

PROFESSIONAL ENGINEER (P.E.): A licensed Professional Engineer within the Commonwealth of Massachusetts in good standing.

REDEVELOPMENT: Any construction, land alteration, or improvement of impervious surfaces resulting in total earth disturbances greater than 1 acre (or activities that are part of a larger common plan of development disturbing greater than 1 acre) that does not meet the definition of new development .

REVIEWING AGENT: The Boxborough Town Planner or other employee designated by the Planning Board for the purposes of administering and enforcing this bylaw.

STORMWATER: Stormwater runoff, snow melt runoff, and surface water runoff and drainage.

STORMWATER MANAGEMENT PERMIT: The written approval granted by the Planning Board to undertake a construction activity pursuant to a Stormwater Management Permit Application. A valid Stormwater Management Permit must be signed by a majority of the Planning Board participating at a duly noted public hearing, and such permit must be recorded at the Middlesex Registry of Deeds, prior to the start of any work.

WETLAND RESOURCE AREAS: Areas specified in the Massachusetts Wetlands Protection Act Regulations, 310 CMR 10.00, as amended, and in the Town of Boxborough Wetland Bylaw, as amended.

**SECTION 3. APPLICABILITY**

No person may undertake a construction activity, including clearing, grading, or excavation that results in a Disturbance of Land to an area equal to or greater than one (1) acre of land or will disturb less than one acres of land but is part of a larger common plan of development or sale that will ultimately disturb an area equal to or greater than one (1) acre of land within the Town of Boxborough without first obtaining a Stormwater Management Permit issued by the Planning Board.

**SECTION 4. AUTHORITY**

This Bylaw is adopted under authority granted by the Home Rule Amendment of the Massachusetts Constitution, the Home Rule statutes, pursuant to the Regulations of the federal Clean Water Act found at 40 CFR 122.34, and as authorized by the residents of the Town of Boxborough at the spring 2020 Town Meeting and as amended.

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## SECTION 5. RESPONSIBILITY FOR ADMINISTRATION

The Planning Board shall be the permit granting authority for this Bylaw. Any powers granted to or duties imposed upon the Planning Board may be delegated in writing by the Planning Board to any Town employee, board, commission, committee or agent, hereby known as the Reviewing Agent.

The Planning Board shall not have jurisdiction over stormwater issues within wetland resource areas and/or buffer zone where the Conservation Commission has jurisdiction under the Wetlands Protection Act, the Boxborough Wetland Bylaw and/or the Town of Boxborough Regulations for the Wetland Bylaw. The Conservation Commission shall be the permit granting authority under this Bylaw for projects requiring a Stormwater Management Permit for disturbance of land activities occurring within wetland resource areas and/or buffer zone subject to the Commission's jurisdiction.

The Planning Board shall take any of the following actions as a result of an application for a Stormwater Management Permit as specifically defined within the Stormwater Management Rules and Regulations promulgated as a result of this Bylaw: Approval, Approval with Conditions, or Disapproval.

## SECTION 6. REGULATIONS

The Planning Board may adopt, and periodically amend, the Stormwater Management Rules and Regulations relating to the terms, conditions, definitions, enforcement, fees (including application, inspection, and/or consultant fees), procedures and administration of this Bylaw by majority vote of the Planning Board, after conducting one (1) advertised public hearing to receive comments on any proposed revisions. The hearing(s) shall be duly advertised in a paper of general circulation in the Town of Boxborough no less than fourteen (14) days prior to the date of the public hearing.

## SECTION 7. EXEMPTIONS

The following activities are exempt from requirements under this bylaw:

1. normal maintenance and improvement of land in agricultural use as defined by the Wetlands Protection Act regulation 310 CMR 10.04, as amended;
2. maintenance of existing landscaping, gardens, or lawn areas associated with a single-family dwelling;
3. the construction of fencing that will not substantially alter existing terrain or drainage patterns;
4. normal maintenance and improvements of the Town of Boxborough's publicly owned roadways and associated drainage infrastructure;
5. emergency repairs to any stormwater management system or feature that poses a threat to public health or safety, or as deemed necessary by a Town department or board; and
6. projects that are wholly subject to jurisdiction under the Wetlands Protection Act and/or the Boxborough Wetlands Protection Bylaw and demonstrate compliance with the Massachusetts Stormwater Management Policy as reflected in an Order of Conditions issued by the Conservation Commission.

## SECTION 8. ENFORCEMENT

The Planning Board or its Reviewing Agent, shall enforce this Bylaw, regulations, orders, violation notices, and enforcement orders, and may pursue all civil and criminal remedies for such violations.

Civil Relief. If a person violates the provisions of this Bylaw, permit, notices, or order issued thereunder, the Planning Board may seek injunctive relief in a court of competent jurisdiction restraining the person

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from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.

Orders. The Planning Board may issue a written order to enforce the provisions of this Bylaw, which may include requirements to:

1. cease and desist from construction or land disturbing activity until there is compliance with this Bylaw and the Stormwater Management Permit;
2. repair, maintain, or replace the stormwater management system or portions thereof in accordance with the operation and maintenance plan;
3. maintain, install, or perform additional erosion and sediment control measures;
4. perform monitoring, analyses, and reporting;
5. remediate adverse impact resulting directly or indirectly from malfunction of the stormwater management system or erosion and sediment control system;
6. cease and desist from unlawful discharges, practices, or operations; and/or,
7. remediate contamination in connection therewith.

If the Planning Board determines that abatement or remediation of adverse impacts is required, the Enforcement Order shall set forth a deadline by which such abatement or remediation must be completed. Said order shall further advise that, should the violator or property owner fail to abate or perform remediation within the specified deadline, the Town of Boxborough may, at its option, with the approval of a court of competent jurisdiction, undertake such work, and the property owner shall reimburse the Town's expense.

Within thirty (30) days after completing all measures necessary to abate the violation, the violator and the property owner shall be notified of the costs incurred by the Town of Boxborough, including administrative costs. The violator or property owner may file a written protest objecting to the amount or basis of costs with the Planning Board within thirty (30) days of receipt of the notification of the costs incurred. If the amount due is not received by the expiration of the time in which to file a protest or within thirty (30) days following a decision of the Planning Board affirming or reducing the costs, or from a final decision of a court of competent jurisdiction, the costs shall constitute "municipal charges" as set forth in G.L. c.40, §58, and by its adoption of this bylaw the Town of Boxborough authorizes the imposition of a "municipal charges lien" for such costs in accordance with that statute. Interest shall begin to accrue on any unpaid costs at the statutory rate provided in G.L. Ch. 59, § 57, after the thirty-first day at which the costs first become due.

Criminal Penalty. Any person who violates any provision of this Bylaw, order, or permit issued thereunder, shall be punished by a fine of not more than $300. Each day or part thereof that such violation occurs or continues shall constitute a separate offense.

Non-Criminal Disposition. As an alternative to criminal prosecution or civil action, the Town may elect to utilize the non-criminal disposition procedure set forth in G.L. Ch. 40, section 21D, in which case the Planning Board or its Reviewing Agent shall be the Authorized Enforcing Agent. The penalty for the 1st violation shall be $100. The penalty for the 2nd violation shall be $200. The penalty for the 3rd and all subsequent violations shall be $300. Each day or part thereof that such violation occurs or continues shall constitute a separate offense.

Entry to Perform Duties under this Bylaw. To the extent permitted by state law, or if authorized by the owner or other party in control of the property, the Planning Board or its Reviewing Agent, officers, and employees may enter upon privately owned property for the purpose of performing their duties under this bylaw and regulations and may make or cause to be made such examinations, surveys, or sampling as the

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Planning Board or Reviewing Agent deems reasonably necessary.

Appeals. A decision of the Planning Board or its Reviewing Agent shall be final. Further relief of a decision by the Planning Board or its Reviewing Agent made under this Bylaw shall be appealed to the Superior Court, in accordance with M.G.L. c. 249, §4.

Remedies Not Exclusive. The remedies listed in this bylaw are not exclusive of any other remedies available under any applicable federal, state, or local law.

**SECTION 9. WAIVERS AND PROVISIONS FOR RELIEF**

The Planning Board or its Reviewing Agent, in its discretion, may waive strict compliance with any requirement of this Bylaw or any other regulations promulgated hereunder, where:

1. such action is allowed by federal, state and local statutes and/or regulations;
2. it is in the public interest;
3. a public safety issue exists; and
4. it is consistent with the purpose and intent of this Bylaw.

Any applicant may submit a written request to be granted such a waiver. Such a request shall be accompanied by an explanation or documentation supporting the waiver request and demonstrating that strict application of this Bylaw does not further the purposes or objectives of this Bylaw. The Planning Board or its Reviewing Agent may require documentation to be submitted and stamped by a qualified P.E. licensed in Massachusetts or a Certified Professional in Erosion and Sediment Control (CPESC).

**SECTION 10. SURETY**

The Planning Board may require the permittee to post before the start of disturbance of land or construction activity, a surety bond, irrevocable letter of credit, cash, or other acceptable security. The form of the bond shall be approved by Town counsel, and be in an amount deemed sufficient by the Planning Board to ensure that the work will be completed in accordance with the Stormwater Management Permit. If the project is phased, the Planning Board may release part of the bond as each phase is completed in compliance with the Stormwater Management Permit but the bond may not be fully released until the Planning Board has received the final inspection report as required by the Stormwater Management Rules and Regulations and issued a Certificate of Completion.

**SECTION 11. SEVERABILITY**

If any provision, paragraph, sentence, or clause of this Bylaw shall be held invalid for any reason, all other provisions shall continue in full force and effect.

Adopted:
Approved by the Attorney General's Office:

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# STORMWATER MANAGEMENT RULES AND REGULATIONS FOR CONSTRUCTION AND POST-CONSTRUCTION ACTIVITIES

**Boxborough Planning Board**
Adopted: June 28, 2021

## 1.0 Purpose

The purpose of these rules and regulations is to establish Stormwater Management Rules and Regulations for the Town of Boxborough Construction and Post-Construction Stormwater Bylaw. The Goals are to establish the procedures and requirements for construction and post-construction activities to 1) minimize damage to public and private property and infrastructure, 2) safeguard the public health, safety, environment and general welfare, 3) protect aquatic resources and wildlife habitat, 4) protect the quality and health of water resources, 5) conserve groundwater supplies, and, 6) foster climate change resiliency.

## 2.0 Authority

The Boxborough Planning Board, under the authority of the General Bylaws of the Town of Boxborough, and after holding a duly called Public Hearing on INSERT DATE OF PUBLIC HEARING, adopts these Stormwater Management Rules and Regulations. Discharges to Storm Drains, including prohibition of illicit discharges, are regulated by the Board of Health.

## 3.0 Definitions

3.1. For the purposes of these rules and regulations, the following shall mean:

(1) ABUTTER: The owner(s) of land abutting the site on which the activity occurs.

(2) APPLICANT: Any person, individual, partnership, association, firm, company, corporation, trust, authority, agency, department, or political subdivision, of the Commonwealth of Massachusetts or the federal government to the extent permitted by law requesting a Stormwater Management Permit for proposed land-disturbance activity.

(3) ASSESSOR: Town of Boxborough Town Assessor's office and/or Assessor.

(4) BEST MANAGEMENT PRACTICE (BMP): Schedules of activities, practices (and prohibitions of practices), structures, vegetation, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

(5) CERTIFICATE OF COMPLETION: Document issued by the Planning Board or its Reviewing Agent upon receipt of a final inspection report and acknowledgement that all conditions of the Stormwater Management Permit have been satisfactorily completed.

(6) CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC): A certified specialist in soil erosion and sediment control. This certification program, sponsored by the Soil and Water Conservation Society in cooperation with the American Society of Agronomy, provides the public with evidence of professional qualifications.

(7) CERTIFIED VERNAL POOLS: Temporary bodies of freshwater that provide critical habitat for a number of vertebrate and invertebrate wildlife species, certified by the Massachusetts Natural Heritage and Endangered Species Program (NHESP).

(8) CLEARING: Any activity that removes vegetative surface cover.

(9) CONSERVATION COMMISSION: Town of Boxborough.

(10) CONSTRUCTION WASTE AND MATERIALS: Excess or discarded building or site materials, including but not limited to concrete truck washout, chemicals, litter and sanitary waste at a construction site that may adversely impact water quality.

(11) DISCHARGE OF POLLUTANTS: The addition from any source of any pollutant or combination of pollutants into the municipal storm drain system or into the waters of the United States or Commonwealth of Massachusetts from any source.

(12) DISTURBANCE OF LAND: Action to alter the existing vegetation and/or underlying soil of a site, such as clearing, grading, site preparation (e.g., excavating, cutting, and filling), soil compaction, and movement and stockpiling of top soils.

(13) EROSION: The wearing away of the land surface by natural or artificial forces such as wind, water, ice, gravity, or vehicle traffic and the subsequent detachment and transportation of soil particles.

(14) EROSION AND SEDIMENT CONTROL PLAN: A document containing narrative, drawings, and details developed by a licensed professional engineer (P.E.) or CPESC, which includes BMPs, or equivalent measures designed to control surface runoff, erosion, and sedimentation during pre-construction and construction-related land disturbance activities.

(15) ESTIMATED HABITAT OF RARE WILDLIFE: Habitats delineated by the NHESP for state-protected rare wildlife and certified vernal pools for use with the Wetlands Protection Act Regulations (310 CMR 10.00) and the Forest Cutting Practices Act Regulations (304 CMR 11.00).

(16) GRADING: Changing the level or shape of the ground surface.

(17) GROUNDWATER: Water beneath the surface of the ground including confined or unconfined aquifers.

(18) IMPERVIOUS SURFACE: Any surface that prevents or significantly impedes the infiltration of water into the underlying soil. This can include but is not limited to: roads, driveways, parking areas and other areas created using non porous material; buildings, rooftops, structures, artificial turf and compacted gravel or soil.

(19) INFEASIBLE: means not technologically possible, or not economically practicable and achievable in light of best industry practices.

(20) LOW IMPACT DEVELOPMENT (LID): An approach to land development design and stormwater management that attempts to mimic the natural hydrology of the site by avoiding, reducing, and mitigating impacts with natural, non-structural and structural measures.

(21) MASSACHUSETTS ENDANGERED SPECIES ACT (MESA): (G.L. c. 13lA) and it's implementing regulations at (321 CMR 10.00). This Act prohibits the "taking" of any rare plant or animal species listed as "Endangered", "Threatened", or of "Special Concern".

(22) MASSACHUSETTS STORMWATER MANAGEMENT STANDARDS (the STANDARDS): The Stormwater Management Standards promulgated by the Massachusetts Department of Environmental Protection (DEP) under the authority of the Massachusetts Wetlands Protection Act G.L. c. 131 § 40 and Massachusetts Clean Waters Act G.L. c. 21, §. 23-56, and further described in the Wetlands Protection Act Regulations (310 CMR 10.00) and the 401 Water Quality Certification Regulations (314 CMR 9.00). The Stormwater Management Standards address stormwater impacts through implementation of performance standards to reduce or prevent pollutants from reaching water bodies and to control the quantity of runoff from a site.

(23) MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) or MUNICIPAL STORM DRAIN SYSTEM: The system of conveyances designed or used for collecting or conveying stormwater, including any road with a drainage system, street, gutter, curb, inlet, piped storm drain, pumping facility, retention or detention basin, natural or man-made or altered drainage channel, reservoir, and other drainage structure that together comprise the storm drainage system owned or operated by the Town of Boxborough.

(24) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER DISCHARGE PERMIT: A permit issued by the United States Environmental Protection Agency (EPA) or jointly with the Commonwealth of Massachusetts that authorizes the discharge of stormwater to waters of the United States.

(25) NEW DEVELOPMENT: Any construction activities or land alteration resulting in total earth disturbances greater than 1 acre (or activities that are part of a larger common plan of development disturbing greater than 1 acre) on an area that has not previously been developed to include impervious cover.

(26) NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM (NHESP): The Commonwealth of Massachusetts' program for implementing MESA requirements, administered by the Massachusetts Division of Fisheries and Wildlife (MassWildlife).

(27) OPERATION AND MAINTENANCE PLAN: A plan setting up the functional, financial and organizational mechanisms for the ongoing operation and maintenance of a stormwater management system to ensure that it continues to function as designed.

(28) OUTFALL: The point where stormwater flows out from a point source which is a discernible, confined and discrete conveyance into Waters of the Commonwealth of Massachusetts.

(29) OWNER: A person with a legal or equitable interest in property.

(30) PERSON: An individual, partnership, association, firm, company, trust, corporation, agency, authority, department or political subdivision of the Commonwealth of Massachusetts or the federal government, to the extent permitted by law, and any officer, employee, or agent of such person.

(31) PLANNING BOARD: Town of Boxborough Planning Board.

(32) POINT SOURCE: Any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff.

(33) POLLUTANT: Dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal and agricultural waste discharged into water.

(34) PRE-CONSTRUCTION: All activity in preparation for construction.

(35) PRIORITY HABITAT OF RARE SPECIES: Habitats delineated for rare plant and animal populations protected pursuant to the MESA and its regulations.

(36) RECHARGE: The process by which groundwater is replenished by precipitation through the percolation of runoff and surface water through soil.

(37) REDEVELOPMENT: Any construction, land alteration, or improvement of impervious surfaces resulting in total earth disturbances greater than 1 acre (or activities that are part of a larger common plan of development disturbing greater than 1 acre) that does not meet the definition of New Development.

(38) REVIEWING AGENT: The Boxborough Town Planner or other town employee designated by the Planning Board for the purposes of administering and enforcing this bylaw.

(39) RUNOFF: Rainfall, snowmelt, or irrigation water flowing over the ground surface.

(40) SEDIMENT: Mineral or organic soil material that is transported by wind or water, from its origin to another location; the product of erosion processes.

(41) SEDIMENTATION: The process or act of deposition of sediment.

(42) SITE: The area extent of construction activities, including but not limited to the creation of new impervious cover and improvement of existing impervious cover.

(43) SLOPE: The incline of a ground surface expressed as a ratio of horizontal distance to vertical distance.

(44) SOIL: Any earth, sand, rock, gravel, or similar material.

(45) STABILIZATION: The use, singly or in combination, of mechanical, structural, or vegetative methods, to prevent or minimize erosion.

(46) STORMWATER: Stormwater, snow melt, and surface water runoff and drainage.

(47) STORMWATER MANAGEMENT PERMIT: The written approval granted by the Planning Board to undertake a construction activity pursuant to a Stormwater Management Permit Application. A valid Stormwater Management Permit must be signed by a majority of the Planning Board participating at a duly noted public hearing, and such permit must be recorded at the Middlesex Registry of Deeds, prior to the start of any work.

(48) STORMWATER MANAGEMENT PLAN: A plan required as part of the application for a Stormwater Management Permit.

(49) TOTAL SUSPENDED SOLIDS (TSS): Sediment being carried in stormwater.

(50) WATERCOURSE: A natural or man-man channel through which water flows or a stream of water, including a river, brook, or underground stream.

(51) WATERS OF THE COMMONWEALTH OF MASSACHUSETTS: All waters within the jurisdiction of the Commonwealth of Massachusetts, including, without limitation, rivers, streams, lakes, ponds, springs, impoundments, estuaries, wetlands, coastal waters, groundwaters, and vernal pools.

(52) WETLAND RESOURCE AREAS: Areas specified in the Massachusetts Wetlands Protection Act Regulations, 310 CMR 10.00, as amended, and in the Town of Boxborough Wetland Bylaw, as amended.

## 4.0 Amendments

The Planning Board may adopt, and periodically amend, these Stormwater Management Rules and Regulations by majority vote of the Planning Board, after conducting a minimum of one (1) advertised public hearing to receive comments on any proposed revisions. The hearing shall be duly advertised in a paper of general circulation in the Town of Boxborough no less than fourteen (14) days prior to the date of the public hearing.

## 5.0 Applicability

These rules and regulations apply to all projects meeting the applicability criteria of the Construction and Post-Construction Stormwater Bylaw. New Development and Redevelopment projects must comply with the rules and regulations contained herein unless expressly waived by the Planning Board.

## 6.0 Permit Procedures and Requirements

6.1. No construction, land alteration, or improvement of impervious surfaces resulting in total earth disturbances greater than 1 acre shall commence prior to approval of the Stormwater Management Permit Application. The Stormwater Management Permit process shall be incorporated into existing permits to ensure efficiency of the Town permitting process for the Town and Applicant. The following Town boards or commissions shall serve as the Permit Granting Authority as described below and their respective permits may serve as the Stormwater Management Permit upon finding the Project has demonstrated compliance with these rules and regulations:

(1) Planning Board: Site Plan Applications, Subdivision Plan Applications, or Earth Removal Permit Applications issued by the Boxborough Planning Board shall serve as the Stormwater Management Permit, provided the project demonstrates compliance with these rules and regulations and the decision includes a designation as such.

(2) Conservation Commission: An Order of Conditions issued by the Boxborough Conservation Commission shall serve as the Stormwater Management Permit, provided the project demonstrates compliance with these rules and regulations and the Order includes a condition as such. In the event that an Order of Conditions is issued by the Conservation Commission to serve as the

Stormwater Management Permit, a copy of the Stormwater Management Permit shall be provided to the Reviewing Agent.

(3) In cases where the above boards or commissions do not include a clear finding of compliance with these rules and regulations or when none of the above permits are required, the Planning Board shall serve as the Stormwater Management Permit Granting Authority.

6.2. Filing Application.

(1) The site owner or his/her agent shall file with the Reviewing Agent, three (3) copies of a completed Stormwater Management Permit Application package as outlined below. Permit issuance is required prior to any applicable site-altering activity. While the applicant can be a representative, the permittee must be the owner of the site.

(2) Proposed projects at individual single-family or duplex residences.
- (a) Completed Application Form with original signatures of all owners;
- (b) Three (3) copies of the Stormwater Management Plan for Single-Family or Duplex Residences as specified in Section 11.0; and
- (c) Payment of any application and review fees.

(3) All other types and/or locations of proposed projects:
- (a) Completed Application Form with original signatures of all owners;
- (b) List of abutters, certified by the Assessors' Office;
- (c) Three (3) copies of the Stormwater Management Plan as specified in Section 7.0;
- (d) Three (3) copies of the Erosion Control Plan as specified in Section 8.0;
- (e) Three (3) copies of the Operation and Maintenance Plan as specified in Section 9.0;
- (f) An acknowledgement of the Site Inspections and Final Reports requirements as specified in Section 10.0
- (g) Payment of any application and review fees.

6.3. Fee Structure.

(1) The Reviewing Agent shall obtain with each submission an Application Fee payable to the Town of Boxborough. Applicants shall pay review fees as listed below to cover any expenses connected with the public hearing and review of the Stormwater Management Permit Application before the review process commences. The Permit Granting Authority or Reviewing Agent may, at the applicant's expense, retain a licensed P.E. or other professional consultant to advise the Reviewing Agent on any or all aspects of these plans.
- (a) Application fee for single family residential or duplex only .....$100
- (b) Application fee for projects from 1 to 2 acres .....$200
- (c) Application fee for projects from 3 to 10 acres .....$300
- (d) Application fee for projects greater than 10 acres .....$500
- (e) Application fee for a resubmittal / amendment.....$100
- (f) Fees for a professional peer review ..... Assessed on a case by case basis

(2) In addition to the above fee, the PGA or its Reviewing Agent is authorized to require an applicant to pay an initial fee of up to $2,500 for the reasonable costs and expenses associated with retaining specific expert engineering and other consultant services deemed necessary to reach a final decision on the application. Payment may be required at any point during the review process prior to a final decision. The Reviewing Agent shall notify the applicant of such amount in writing. Failure to submit such amount within 14 days of receipt of said notice shall be deemed sufficient reason by the Reviewing Agent to deny said application.

(a) If, prior to final action on the plan, the Reviewing Agent finds that $2,500 is insufficient to cover the costs and expenses associated with specific expert engineering and other consultant services necessary for review of the application, the Reviewing Agent may require the applicant to submit any additional funding required to fund peer review services required for the Reviewing Agent's review of the pending application. The Reviewing Agent shall notify the applicant of any additional funding required in writing. Failure to submit such additional amount of funds to the Reviewing Agent within 14 days of receipt of said notice shall be deemed reason by the Reviewing Agent to deny said application.

(b) Such fee shall be held in escrow, to be used to engage independent expert engineering and other peer review consultant services, should the Reviewing Agent determine this to be necessary, based on the characteristics or complexity of the issues raised by the application. Such fee shall be governed and administered in accordance with G.L c. 44, § 53G or § 53E 1/2.

(c) If the actual cost incurred by the Town for review of said application is less than the amount on deposit as specified above, the Reviewing Agent shall authorize that such excess amount be refunded to the applicant concurrently with final action on said application.

(d) The services for which a fee may be utilized include, but are not limited to, review of wetland survey and delineation, hydrologic and drainage analysis, wildlife evaluation, stormwater quality analysis, site inspections, as-built plan review, and analysis of legal issues.

6.4. Information Requests. The applicant shall submit all additional information requested by the Permit Granting Authority or Reviewing Agent to issue a decision on the application within 30 days of the request for additional information.

6.5. Actions. The Permit Granting Authority's action, rendered in writing, shall consist of either:

(1) "Approval" of the Stormwater Management Permit Application based upon determination that the proposed Stormwater Management Plan meets the Standards and will adequately protect the water resources of the community and is in compliance with the requirements set forth in these rules and regulations;

(2) "Approval with Conditions" of the Stormwater Management Permit Application subject to any conditions, modifications, or restrictions that will ensure the

proposed Stormwater Management Plan meets the Standards (Standards) as set forth in Section 7.3 or Section 11.2, as applicable, and will adequately protect the water resources of the community and is in compliance with the requirements set forth in these rules and regulations;

(3) "Disapproval" of the Stormwater Management Permit Application based upon determination that the proposed Stormwater Management Plan, as submitted, does not meet the Standards or will not adequately protect the water resources of the community and is not in compliance with the requirements set forth in these rules and regulations.

6.6. Appeals. The applicant may appeal the decision in accordance with M.G.L. c. 249, § 4.

6.7. Access Permission. To the extent permitted by Massachusetts law, the Reviewing Agent and third-party inspector may enter upon privately owned property for the purpose of performing their duties under these rules and regulations and may make or cause to be made such examinations, surveys or sampling as the Permit Granting Authority or Reviewing Agent deems reasonably necessary to determine compliance with the Stormwater Management Permit.

6.8. Plan Changes. The applicant must notify the Reviewing Agent in writing of any drainage change or alteration in the system authorized in the Stormwater Management Permit before any change or alteration is made. If the Permit Granting Authority or Reviewing Agent determines that the change or alteration is significant, based on the Standards, the requirements set forth in these rules and regulations, or accepted construction practices, the Permit Granting Authority or Reviewing Agent may require that an amended application be filed. If any change or alteration from the Stormwater Management Permit occurs during any land disturbing activities, the Permit Granting Authority or Reviewing Agent may require the installation of interim erosion and sedimentation control measures before approving the change or alteration.

## 7.0 Stormwater Management Permit Application

7.1. The Stormwater Management Permit Application shall consist of a submittal of a Stormwater Management Plan to the Reviewing Agent. This Stormwater Management Plan shall contain sufficient information to evaluate the environmental impact, effectiveness, and acceptability of the measures proposed by the applicant for reducing adverse impacts from stormwater. The Stormwater Management Plan shall be designed to meet the Standards, as set forth in Section 7.3, and the Massachusetts DEP Stormwater Handbook Volumes 1, 2, and 3, as amended.

7.2. The Stormwater Management Plan shall fully describe the project in drawings and narrative. It shall include, as a minimum, the following:

(1) Names, addresses, and telephone numbers of the owner, applicant, and person(s) or firm(s) preparing the plan;

(2) Project narrative containing relevant information related to stormwater requirements;
(3) Locus map of the site;
(4) Description of existing and proposed conditions;
(5) Existing and proposed zoning and land use at the site;
(6) Existing and proposed easements and utilities at the site;
(7) Existing and proposed topography (1-foot or 2-foot interval contours with additional spot grades as needed to depict detailed drainage patterns) at the site;
(8) Existing and proposed hydrology, watershed name, watershed boundaries, drainage area, and stormwater flow paths;
(9) Existing and proposed stormwater conveyances, impoundments, and wetlands into which stormwater flows at and adjacent to the site;
(10) Existing and proposed 100-year flood plain, if applicable;
(11) Estimated high groundwater elevation (November to April) as determined via completion of representative test pits or other geological investigations in areas to be used for stormwater retention, detention, or infiltration;
(12) Description of subsurface conditions in areas to be used for stormwater retention, detention, or infiltration;
(13) Plans, drawings, and descriptions of proposed drainage system and all components including:
    (a) Locations, cross sections, and profiles of all stormwater conveyances such as drainage swales and their method of stabilization;
    (b) All measures for the detention, retention, and/or infiltration of stormwater;
    (c) All measures for the protection of water quality;
    (d) The structural details and sizing for all components of the proposed drainage systems and stormwater management facilities;
    (e) Notes on drawings specifying materials to be used, construction specifications, and typical details and cross-sections;
    (f) Analysis of existing and proposed hydrology with supporting calculations;
    (g) Calculations supporting the estimate of stormwater treatment performance;
    (h) Calculations supporting the design of infiltration practices, including design infiltration rates, estimated dewatering times, and mounding analyses, where applicable;
(14) Stormwater runoff shall be calculated using latest Northeast Regional Climate Center (NRCC) extreme precipitation amounts for recurrence intervals (storm events) 2-, 10-, 25-, 50- and 100-year frequencies;
(15) An Erosion and Sediment Control Plan as detailed in Section 8.0;
(16) An Operation and Maintenance Plan as detailed in Section 9.0;
(17) Documents must be stamped and certified by a qualified licensed P.E.; and,
(18) Any other information requested by the Reviewing Agent.

7.3. Stormwater Management Standards. Projects shall meet the following standards:
(1) No new stormwater conveyances (e.g., outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or Waters of the Commonwealth of Massachusetts.

(2) Low Impact Development (LID) site planning and design strategies must be implemented unless infeasible in order to reduce the discharge of stormwater from development sites;

(3) Stormwater management system design shall be consistent with, or more stringent than, the requirements of the 2008, or most current version, of the Massachusetts Stormwater Handbook;

(4) Stormwater management systems on new development shall be designed to meet an average annual pollutant removal equivalent to 90% of the average annual load of Total Suspended Solids (TSS) related to the total post-construction impervious area on the site AND 60% of the average annual load of Total Phosphorus (TP) related to the total post-construction impervious surface area on the site.

(a) Average annual pollutant removal requirements in 7.3.(4) are achieved through one of the following methods:

i. Installing BMPs that meet the pollutant removal percentages based on calculations developed consistent with EPA Region 1's BMP Accounting and Tracking Tool (2016) or other BMP performance evaluation tool provided by EPA Region 1, where available. If EPA Region 1 tools do not address the planned or installed BMP performance, then any federally or State-approved BMP design guidance or performance standards (e.g., State stormwater handbooks and design guidance manuals) may be used to calculate BMP performance; or

ii. Retaining the volume of runoff equivalent to, or greater than, 1.0 inch multiplied by the total post-construction impervious surface area on the new development site; or

iii. Meeting a combination of retention and treatment that achieves the above standards; or

iv. Utilizing offsite mitigation that meets the above standards within the same USGS Hydrologic Unit Code (HUC)12 as the new development site.

(5) Stormwater management systems on redevelopment sites shall be designed to meet an average annual pollutant removal equivalent to 80% of the average annual post-construction load of TSS related to the total post-construction impervious area on the site AND 50% of the average annual load of TP related to the total post-construction impervious surface area on the site.

(a) Average annual pollutant removal requirements in 7.3.(5) are achieved through one of the following methods:

i. Installing BMPs that meet the pollutant removal percentages based on calculations developed consistent with EPA Region 1's BMP Accounting and Tracking Tool (2016) or other BMP performance evaluation tool provided by EPA Region 1, where available. If EPA Region 1 tools do not address the planned or installed BMP performance, then any federally or State-approved BMP design guidance or performance standards (e.g., State stormwater

handbooks and design guidance manuals) may be used to calculate BMP performance; or

ii. Retaining the volume of runoff equivalent to, or greater than, 0.8 inches multiplied by the total post-construction impervious surface area on the redevelopment site; or

iii. Meeting a combination of retention and treatment that achieves the above standards; or

iv. Utilizing offsite mitigation that meets the above standards within the same USGS HUC12 as the redevelopment site.

(6) Redevelopment activities that are exclusively limited to maintenance and improvement of existing roadways, (including widening less than a single lane, adding shoulders, correcting substandard intersections, improving existing drainage systems, and repaving projects) shall improve existing conditions where feasible and are exempt from part Section 7.3.(5). Roadway widening or improvements that increase the amount of impervious area on the redevelopment site by greater than or equal to a single lane width shall meet the requirements of Section 7.3.(5).

## 8.0 Erosion and Sediment Control Plan

8.1. The Stormwater Management Permit Application shall include submittal of an Erosion and Sediment Control Plan to the Reviewing Agent. This Erosion and Sediment Control Plan shall contain sufficient information about the nature and purpose of the proposed development, pertinent conditions of the site and adjacent areas, proposed erosion and sedimentation controls, and proposed control for other wastes on construction sites such as demolition debris, litter, and sanitary wastes to ensure they are not discharged to the MS4, drainage system, or waters of the United States or Commonwealth of Massachusetts. The applicant shall submit such material as is necessary to show that the proposed development will comply with the design requirements as follows:

(1) Minimize total area of disturbance;
(2) Sequence activities to minimize simultaneous areas of disturbance;
(3) Installing erosion and sediment controls prior to the commencement of any construction activity;
(4) Minimize soil erosion and control sedimentation during construction, provided that prevention of erosion is preferred over sedimentation control;
(5) Divert uncontaminated water around disturbed areas;
(6) Maximize infiltration and groundwater recharge;
(7) Install, inspect, and maintain all Erosion and Sediment Control measures in accordance with the manufacturer's specifications and good engineering practices;
(8) Prevent off-site transport of sediment and wastes;
(9) Protect all storm drain inlets and armor all newly constructed outlets;
(10) Protect and manage on and off-site material storage areas (overburden and stockpiles of dirt, borrow areas, or other areas used solely by the permitted project are considered a part of the project);

(11) Comply with applicable federal, state and local laws and regulations including waste disposal, sanitary sewer or septic system regulations, and air quality requirements, including dust control;
(12) Institute interim and permanent stabilization measures, which shall be instituted on a disturbed area as soon as practicable but no more than fourteen (14) days after construction activity has temporarily or permanently ceased on that portion of the site;
(13) Properly manage on-site construction waste and materials;
(14) Stabilize construction site entrances and exits and prevent off-site vehicle tracking of sediments; and,
(15) Ensure that any stormwater BMP (for post-construction stormwater management) installed during construction will be protected from compaction, siltation, and erosion or will be restored or replaced such that the BMP will be capable of functioning as designed in accordance with these stormwater regulations.

8.2. The content of the Erosion and Sediment Control Plan shall contain the following information:
(1) Names, addresses, and telephone numbers of the owner, applicant, and person(s) or firm(s) preparing this plan;
(2) Title, date, north arrow, names of abutters, scale, legend, and locus map;
(3) Location and description of natural features including:
(a) Watercourses and water bodies, wetland resource areas and all floodplain information, including the 100-year flood elevation based upon the most recent Flood Insurance Rate Map, or as calculated by a qualified P.E. for areas not assessed on these maps;
(b) Existing vegetation including tree lines, canopy layer, shrub layer, and ground cover, and trees with a caliper twelve (12) inches or larger, noting specimen trees and forest communities; and,
(c) Habitats mapped by the Massachusetts Natural Heritage & Endangered Species Program as Endangered, Threatened or of Special Concern, Estimated Habitats of Rare Wildlife, and Certified Vernal Pools, and Priority Habitats of Rare Species within five hundred (500) feet of any construction activity.
(4) Lines of existing abutting streets showing drainage and driveway locations and curb cuts;
(5) Existing soils, volume and nature of imported soil materials;
(6) Topographical features including existing and proposed contours at intervals no greater than one (1) foot with spot elevations provided when needed;
(7) Surveyed property lines showing distances and monument locations, all existing and proposed easements, rights-of-way, and other encumbrances, the size of the entire parcel, and the delineation and number of square feet of the land area to be disturbed;
(8) Drainage patterns and approximate slopes anticipated after major grading activities;

(9) Location and details of erosion and sediment control measures with a narrative of the construction sequence/phasing of the project, including both operation and maintenance for structural and non-structural measures, interim grading, and material stockpiling areas;
(10) Path and mechanism to divert uncontaminated water around disturbed areas, to the maximum extent practicable;
(11) Location and description of and implementation schedule for temporary and permanent seeding, vegetative controls, and other stabilization measures;
(12) A description of construction and waste materials expected to be stored on-site. The Plan shall include a description of controls to reduce pollutants from these materials, including storage practices to minimize exposure of the materials to stormwater, and spill prevention and response;
(13) A description of provisions for phasing the project where one acre of area or greater is to be altered or disturbed;
(14) A description of how the project owner will inspect the site during the course of construction to monitor the management of stormwater in accordance with applicable town, state, and federal regulations;
(15) Plans must be stamped and certified by a qualified licensed P.E. or a CPESC; and,
(16) Such other information as is required by the Reviewing Agent.

## 9.0 Operation and Maintenance Plan

9.1. The Stormwater Management Permit Application shall include a submittal of Operation and Maintenance Plan (O&M Plan) to the Reviewing Agent. This O&M Plan shall be designed to ensure compliance with the Stormwater Management Permit, these rules and regulations, and that the Massachusetts Surface Water Quality Standards, 314 CMR 4.00, are met in all seasons and throughout the life of the system. The Permit Granting Authority or Reviewing Agent shall make the final decision of what maintenance option is appropriate in a given situation. The Reviewing Agent will consider natural features, proximity of the site to MS4 infrastructure, proximity of the site to waterbodies and wetlands, extent of impervious surfaces, size of the site, the types of stormwater management structures, and potential need for ongoing maintenance activities when making this decision. The O&M Plan shall remain on file with the Reviewing Agent and shall be an ongoing requirement. The O&M Plan shall include:

(1) Names, addresses, and telephone numbers of the owner(s) of all components of the system;
(2) Maintenance agreements that specify:
    (a) The names and addresses of the person(s) responsible for operation and maintenance
    (b) The person(s) responsible for financing maintenance and emergency repairs.
    (c) A Maintenance Schedule that includes routine inspection along with routine and non-routine maintenance tasks for each BMP.
    (d) A list of easements, if applicable, with the purpose and location of each.

(e) The signature(s) of the owner(s).
(f) Estimated operation and maintenance budget.
(g) The responsible party shall:
i. Maintain a log of all operation and maintenance activities for the last three years including inspections, repair, replacement, and disposal (the log shall indicate the type of material and the disposal location);
ii. Make this log available to the Reviewing Agent and the Commonwealth of Massachusetts upon request; and,
iii. Allow DEP and the Reviewing Agent to inspect each BMP to determine whether the responsible party is implementing the Operation and Maintenance Plan.

(3) Stormwater Management Easement(s).
(a) Stormwater management easements shall be provided by the property owner(s) as necessary for:
i. Access for facility inspections and maintenance;
ii. Preservation of stormwater runoff conveyance, infiltration, and detention areas and facilities, including flood routes for the 100-year storm event; and,
iii. Direct maintenance access by heavy equipment to structures requiring regular cleanout.
(b) The purpose of each easement shall be specified in the maintenance agreement signed by the property owner.
(c) Stormwater management easements are required for all areas used for off-site stormwater control, unless a waiver is granted by the Permit Granting Authority.
(d) Easements shall be recorded by the Owner with the Middlesex County Registry of Deeds or Land Registration Office (for registered land) prior to issuance of a Certificate of Completion.

(4) Changes to Operation and Maintenance Plans.
(a) The owner(s) of the stormwater management system must notify the Reviewing Agent of changes in ownership or assignment of financial responsibility.
(b) The maintenance schedule in the Maintenance Agreement may be amended to achieve the purposes of these rules and regulations by mutual agreement of the Reviewing Agent and the responsible parties. Amendments must be in writing and signed by all responsible parties. Responsible parties shall include owner(s), persons with financial responsibility, and persons with operational responsibility during future years.

9.2. Stormwater infrastructure shall be privately owned, inspected and maintained per the Operation and Maintenance procedures approved for the project. Inspection and maintenance logs shall be provided to the Reviewing Agent on a yearly basis by final day in June for the Town to use in preparation of its annual report to the US EPA as part of the NPDES MS4 Permit requirements.

9.3. The landowner or responsible party shall provide the Reviewing Agent an annual report prepared and stamped by a licensed P.E. documenting and certifying performance of required maintenance and providing an assessment of overall system performance.

9.4. The O&M Plan shall include procedures for using dedicated funds, establishing an escrow account, and/or developing a maintenance contract, if determined appropriate to ensure adequate long-term maintenance.

9.5. Stormwater Management operation and maintenance duties shall be recorded with the deed for each lot in a subdivision. The applicant may elect to setup a home owner's association (HOA) or other means to ensure all BMPs are inspected and maintained as required.

9.6. Long-term operators responsible for O&M Plan implementation shall submit an annual report to the Reviewing Agent documenting all inspection and maintenance completed on the stormwater system.

10.0 Site Inspections and Final Reports

10.1. Pre-Construction Meeting. Prior to the commencement of any clearing, excavation, construction, or disturbance of land, the Applicant, the Applicant's technical representative, the general contractor, or any other person with authority to make changes to the project, shall meet with the Reviewing Agent to review the permitted Stormwater Management, Erosion and Sediment Control, and Operation and Maintenance Plans and their implementation.

10.2. Erosion and Sediment Control Inspections. The applicant or responsible party shall conduct and document inspections of all erosion and sediment control measures no less than weekly or as specified in the Stormwater Management Permit, and prior to and following anticipated storm events. The purpose of such inspections is to determine the overall effectiveness of the erosion and sediment control plan, and the need for maintenance or additional control measures. The applicant or responsible party shall submit monthly erosion and sediment control reports to the Reviewing Agent in a format approved by the Reviewing Agent.

10.3. Routine Inspections. Routine inspections shall be performed as follows:
(1) Initial Site Inspection: prior to approval of any permit/plan;
(2) Erosion and Sediment Control Inspection: to ensure erosion and sediment control measures are in place and stabilized, and to ensure erosion control practices are in accordance with the filed plan.
(3) Site Clearing has been substantially completed;
(4) Rough Grading has been substantially completed;
(5) Final Grading has been substantially completed;
(6) Bury Inspections: prior to backfilling of any underground drainage or stormwater structures.

(7) Close of the Construction Season;
(8) Landscaping (permanent stabilization); and,
(9) Final Inspection. After the stormwater management system has been constructed, and before any surety is released, the Applicant must submit a record as-built plan detailing the actual stormwater management system as installed. Such plans shall show compliance with the final approved plans by the Reviewing Agent. The Reviewing Agent shall inspect the system to confirm its "as-built" features. This inspector shall also evaluate the effectiveness of the system in an actual storm. If the inspector finds the system to be adequate, he/she shall so report to Permit Granting Authority and Reviewing Agent which will issue a Certificate of Completion.

10.4. Inspector Qualifications. Inspections shall be performed by an independent third-party licensed P.E. or CPESC. Alternatively, inspections shall be performed by a qualified employee of the Town of Boxborough.

10.5. Final Reports. Upon completion of the work, the applicant shall submit a report (including certified as-built construction plans) from a P.E.. As-built drawings shall be submitted no later than one year after completion of construction projects. The as-built drawings must depict all on site controls, both structural and non-structural, designed to manage the stormwater associated with the completed site (post-construction stormwater management). The report shall certify that all permitted construction, plans, and approved changes and modifications, were completed in accordance with the conditions of the approved Stormwater Management Permit. Any discrepancies should be noted in the report.

If the system is found to be inadequate by virtue of physical evidence of operational failure, even though it was built as called for in the Stormwater Management Plan, it shall be corrected before the performance guarantee is released. If the applicant fails to act the Town of Boxborough may use the surety bond to complete the work. Examples of inadequacy include but are not limited to: errors in the infiltrative capability, errors in the maximum groundwater elevation, failure to properly define or construct flow paths, or erosive discharges from basins or other structural BMPs.

## 11.0 Stormwater Management Plan for Single-Family or Duplex Residences Application

11.1. The Stormwater Management Plan for Single-Family or Duplex Residences Application shall consist of a submittal of a Stormwater Management Plan to the Reviewing Agent. This Stormwater Management Plan shall contain sufficient information for the Reviewing Agent to evaluate the environmental impact, effectiveness, and acceptability of the measures proposed by the applicant for reducing adverse impacts from stormwater. The Stormwater Management Plan shall fully describe the project in drawings and narrative. It shall include, as a minimum, the following:

(1) Names, addresses, and telephone numbers of the owner, applicant, and person(s) or firm(s) preparing the plan;

(2) Project narrative of existing and proposed conditions as relevant to stormwater;
(3) Existing and proposed easements and utilities at the site;
(4) Existing and proposed topography (approximate 1-foot or 2-foot interval contours with additional spot grades as needed to depict detailed drainage patterns) at the site;
(5) Existing and proposed drainage area, and stormwater flow paths;
(6) Existing and proposed stormwater conveyances and wetlands into which stormwater flows at and adjacent to the site;
(7) Existing and proposed 100-year flood plain, if applicable;
(8) Estimated high groundwater elevation (November to April) in areas to be used for stormwater retention, detention, or infiltration;
(9) Plans, drawings, and descriptions of proposed drainage system and all components including:
    (a) Locations of all stormwater conveyances such as drainage swales and their method of stabilization;
    (b) The structural details and sizing for all components of the proposed drainage systems and stormwater management facilities;
    (c) Notes on drawings specifying materials to be used, construction specifications, and typical details and cross-sections;
    (d) Calculations supporting the estimate of stormwater treatment performance and design of infiltration practices;
(10) An Erosion and Sediment Control Plan as detailed below;
(11) An Operation and Maintenance Plan as detailed below; and
(12) Any other information requested by the Reviewing Agent.

11.2. Stormwater Management Standards. Projects shall meet the Massachusetts DEP Stormwater Management Standards as follows:
(1) No new stormwater conveyances (e.g., outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or Waters of the Commonwealth of Massachusetts.
(2) The design of treatment and infiltration practices should follow the guidance in Volume 2 of the Massachusetts Stormwater Handbook, as amended, or other federally or State approved BMP design guidance.
(3) Stormwater management systems on new development sites shall be designed to:
    (a) Not allow new stormwater conveyances to discharge untreated stormwater in accordance with Massachusetts Stormwater Handbook Standard 1;
    (b) Control peak runoff rates in accordance with Massachusetts Stormwater Handbook Standard 2;
    (c) Recharge groundwater in accordance with Massachusetts Stormwater Handbook Standard 3;
    (d) Eliminate or reduce the discharge of pollutants from land uses with higher pollutant loads as defined in the Massachusetts Stormwater Handbook in accordance with Massachusetts Stormwater Handbook Standard 5;

(e) Protect Zone II or Interim Wellhead Protection Areas of public water supplies in accordance with Massachusetts Stormwater Handbook Standard 6;
(f) Implement long term maintenance practices in accordance with Massachusetts Stormwater Handbook Standard 9;
(g) Optimize stormwater BMPs for nitrogen and phosphorus removal to the maximum extent practicable; and
(h) Require that all stormwater management systems be designed to:
  i. Retain the volume of runoff equivalent to, or greater than, one (1.0) inch multiplied by the total post-construction impervious surface area on the site AND/OR
  ii. Remove 90% of the average annual load of Total Suspended Solids (TSS) generated from the total post-construction impervious area AND 60% of the average annual load of Total Phosphorus (TP) generated from the total post-construction impervious surface area on the site. Pollutant removal shall be calculated consistent with EPA Region 1's BMP Performance Extrapolation Tool or other BMP performance evaluation tool provided by EPA Region 1, where available. If EPA Region 1 tools do not address the planned or installed BMP performance any federally or state approved BMP design guidance or performance standards (e.g., state stormwater handbooks and design guidance manuals) may be used to calculate BMP performance.

(4) Stormwater management systems on redevelopment sites shall be designed to:
(a) Not allow new stormwater conveyances to discharge untreated stormwater in accordance with Massachusetts Stormwater Handbook Standard 1;
(b) Control peak runoff rates in accordance with Massachusetts Stormwater Handbook Standard 2;
(c) Recharge groundwater in accordance with Massachusetts Stormwater Handbook Standard 3;
(d) Meet the pretreatment and structural best management practices requirements of Massachusetts Stormwater Standards 5 and 6;
(e) Optimize stormwater BMPs for nitrogen and phosphorus removal to the maximum extent practicable; and
(f) Require:
  i. Retaining the volume of runoff equivalent to, or greater than, 0.80 inch multiplied by the total post-construction impervious surface area on the site AND/OR
  ii. Removing 80% of the average annual post-construction load of Total Suspended Solids (TSS) generated from the total post-construction impervious area on the site AND 50% of the average annual load of Total Phosphorus (TP) generated from the total post-construction impervious surface area on the site. Pollutant removal shall be calculated consistent with EPA Region 1's BMP Performance Extrapolation Tool or other BMP performance evaluation tool provided by EPA Region 1 where available. If EPA Region 1 tools

do not address the planned or installed BMP performance any federally or state approved BMP design guidance or performance standards (e.g., state stormwater handbooks and design guidance manuals) may be used to calculate BMP performance.

11.3. The Stormwater Management Permit Application shall include submittal of an Erosion and Sediment Control Plan to the Reviewing Agent. The content of the Erosion and Sediment Control Plan shall contain the following information:

(1) Names, addresses, and telephone numbers of the owner, applicant, and person(s) or firm(s) preparing this plan;
(2) Title, date, north arrow, scale, legend, and locus map;
(3) Location and description of natural features including:
(4) Watercourses and water bodies, wetland resource areas and all floodplain information, including the 100-year flood elevation based upon the most recent Flood Insurance Rate Map; and,
(5) Existing vegetation including tree lines, canopy layer, shrub layer, and ground cover, and trees with a caliper twelve (12) inches or larger, noting specimen trees and forest communities;
(6) Lines of existing abutting streets showing drainage and driveway locations and curb cuts;
(7) Existing soils, volume and nature of imported soil materials;
(8) Topographical features including existing and proposed contours at intervals no greater than one (1) feet with spot elevations provided when needed;
(9) Approximate property lines, all existing and proposed easements, rights-of-way, and other encumbrances, the size of the entire parcel, and the delineation and number of square feet of the land area to be disturbed;
(10) Surveyed property lines, if determined necessary by the Reviewing Agent;
(11) Drainage patterns and approximate slopes anticipated after major grading activities;
(12) Location and details of erosion and sediment control measures with a narrative of the construction sequence/phasing of the project, including both operation and maintenance for structural and non-structural measures, interim grading, and material stockpiling areas; and
(13) Such other information as is required by the Reviewing Agent.

11.4. Operation and Maintenance Plan. The Stormwater Management Permit Application shall include a submittal of Operation and Maintenance Plan (O&M Plan) to the Reviewing Agent. The Reviewing Agent shall make the final decision of what maintenance option is appropriate in a given situation. The Reviewing Agent will consider natural features, proximity of the site to MS4 infrastructure, proximity of the site to waterbodies and wetlands, extent of impervious surfaces, size of the site, the types of stormwater management structures, and potential need for ongoing maintenance activities when making this decision. The O&M Plan shall include:

(1) The name(s) of the owner(s) of all components of the system;

(2) A Maintenance Schedule that includes routine inspection along with routine and non-routine maintenance tasks for each BMP.

11.5. Ongoing Maintenance. The property owner shall provide the Reviewing Agent an annual report documenting and certifying performance of required maintenance and providing an assessment of overall system performance Stormwater Management operation and maintenance. Duties shall be recorded with the deed for each lot in a subdivision. Maintenance requirements shall be required by all future owners in the event of lot transfer.

11.6. Site Inspections and Final Reports. The responsible party shall provide a description and schedule of how and when the project owner or authorized additional party will inspect the site during the course of construction to monitor the management of stormwater in accordance with applicable town, state, and federal regulations.

11.7. Erosion and Sediment Control Inspections. The schedule shall be subject to approval by the Reviewing Agent, however may include documenting inspections of all erosion and sediment control measures no less than weekly, and prior to and following anticipated events:

(1) Initial Site Inspection: prior to approval of any permit/plan;
(2) Erosion and Sediment Control Inspection: to ensure erosion and sediment control measures are in place and stabilized, and to ensure erosion control practices are in accordance with the filed plan.
(3) Site Clearing has been substantially completed;
(4) Rough and Final Grading has been substantially completed;

11.8. Inspector Qualifications. Inspections shall be performed by the homeowner or an independent third-party licensed P.E. or CPESC. Alternatively, inspections shall be performed by a qualified employee of the Town of Boxborough. If done by the homeowner, the homeowner is responsible for ensuring that inspections are conducted and that any repairs needed are conducted promptly and adequately to meet these Regulations. Failure to do so may subject the homeowner to the enforcement actions outlined under the Construction and Post-Construction Stormwater Bylaw.

11.9. Final Reports. Upon completion of the work, the applicant shall submit as-built construction plans no later than one year after completion of construction projects. The as-built drawings must depict all on site controls, both structural and non-structural, designed to manage the stormwater associated with the completed site (post-construction stormwater management). The report shall certify that all permitted construction, plans, and approved changes and modifications, were completed in accordance with the conditions of the approved Stormwater Management Permit. Any discrepancies should be noted in the report.

## 12.0 Certification of Completion

The Planning Board or its Reviewing Agent will issue a letter certifying completion of the project upon receipt and approval of the final inspection reports from the Applicant and/or upon otherwise determining that all work of the Stormwater Management Permit has been satisfactorily completed in conformance with these rules and regulations. The Permit Granting Authority or Reviewing Agent may, in addition to certifying satisfactory completion of the project, require ongoing maintenance procedures as outlined O&M Plan and/or work deemed necessary by the Permit Granting Authority or Reviewing Agent.

# Appendix C

## Stormwater System Mapping

**Mapping Status**

| Requirement Summary | Status |
|---|---|
| **Phase I – Must be Complete by July 1, 2020** | |
| 1. Outfalls and receiving waters | Complete |
| 2. Open channel conveyances | In progress |
| 3. Interconnections with other MS4s | In progress |
| 4. Municipally owned structural BMPs | Complete |
| 5. Waterbody names and impairments | Complete |
| 6. Initial catchment delineations by topography | Complete |
| **Phase II – Must be Complete by July 1, 2028** | |
| 1. Outfalls with spatial accuracy +/-30 feet | Complete |
| 2. Pipe connectivity | In progress |
| 3. Manholes | Complete |
| 4. Catch basins | Complete |
| 5. Refined catchment delineations | Not started |
| 6. Municipal sanitary system | Not applicable |
| 7. Municipal combined sewer system | Not applicable |

LITTLETON
HARVARD
ACTON
Bennetts Brook
Mill Pond
Long Pond
Beaver Brook
Horse Meadows Reservoir
Wolf Swamp
Eldridge Pond
Elizabeth Brook Reservoir
Elizabeth Brook
Guggins Brook
Inch Brook
Flagg Hill Pond
Ministers Pond
MASSACHUSETTS AVENUE
Legend
Outfall
Catch Basin
Roads
Lake, Pond, Reservoir
Wetland, Marsh, Swamp
Stream, Brook
Non-Urban Area
N
W
E
S
0
0.25
0.5
1
Miles
Stormwater Infrastructure Map
Boxborough, MA
Comprehensive Environmental Incorporated
Data Sources: CEI, MassGIS, Town of Boxborough
06.24.19

# Appendix D

## Inventory of Town-Owned Property

| | | | | | | Municipal Infrastructure | | | | | | | | | | Parks and Open Space | | | | | | Buildings and Facilities | | | | | | Yards | | | | and Reporting | | | Management | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | SOP ID: | MI1 | MI2 | MI3 | MI4 | MI5 | MI6 | MI7 | MI8 | MI9 | MI10 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | BF1 | BF2 | BF3 | BF4 | BF5 | BF6 | VM1 | VM2 | VM3 | VM4 | SR1 | SR2 | SR3 | CM1 | CM2 |
| Site Name | Address | Map ID | Map Tile Number | Contact | Notes | Street Sweeping | Catch Basin Inspection & Cleaning | Outfall Inspection & Maintenance | Stormwater & Water Line Maintenance | Asphalt Cleaning & Repair | BMP Inspection & Maintenance | Oil/Water Separator | Floor Drains | Snow Stockpiling/Removal | Winter Road Maintenance | Landscape Design & Management | Lawn & Grounds Maintenance | Pet Waste & Litter | Storage & Use of Pesticides & Herbicides | Storage & Use of Fertilizers | Waterfowl Management | Building Washing & Repair | Solid Waste Management | Material Loading/ Unloading | Material Storage | Painting | Winter Road Maintenance | Vehicle & Equipment Storage & Maintenance | Vehicle & Equipment Washing | Vehicle & Equipment Fueling | Parts Cleaning | Spill Response | Spill Reporting | Emergency Contact Info | Erosion & Sedimentation Control | Construction Site Inspection |
| MUNICIPAL BUILDINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boxborough Transfer Station | 520 Codman Hill Road | D3 | F1 | | | x | | | | x | | | | | x | | | x | | | | x | x | | | x | x | | | | | | | | | | |
| Boxborough Fire Station | 502 Massachusetts Avenue | FD1 | E6 | | | x | | | | x | | | x | | x | | | | | | | | | x | x | | x | x | x | | x | x | x | x | | |
| Boxborough Police Department | 520 Massachusetts Avenue | PD1 | E6 | | | x | | | | x | | | | | x | | | x | | | | x | | | | x | x | x | x | | x | | | | | | |
| Old Department of Public Works Building | 577 Massachusetts Avenue | D2 | E6 | | | x | | | | x | | | x | | x | | | | | | | x | | x | x | x | x | x | x | x | x | x | x | x | | | |
| New Department of Public Works Building | 873 Massachusetts Avenue | D1 | E5 | | | x | | | | x | | | | | x | | | x | x | x | | x | | x | x | x | x | x | | | | x | x | x | | | |
| Boxborough Town Hall | 29 Middle Road | T1 | E5 | | | x | x | x | x | x | | | | | x | | | x | | | | x | x | | | x | x | | | | | | | | | | |
| Unknown | 72 Stow Road | T2 | E5, F5 | | Could not identify name of building | | | | | | | | | | | | | | | | | x | | | | x | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCHOOLS AND COMMUNITY BUILDINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Albert J Sargent Memorial Library | 427 Massachusetts Avenue | L1 | E6 | | | x | x | x | x | x | | | | | x | | | x | | | | x | x | | | x | x | | | | | | | | | | |
| Boxborough Museum and Historical Society | 575 Middle Road | S2 | D4 | | | x | | | | x | | | | | x | | | x | | | | x | | | | x | x | | | | | | | | | | |
| Blanchard Memorial School | 493 Massachusetts Avenue | S1 | E6 | | Added from GIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OPEN SPACES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fifer's Field | 900 Beaver Brook Road | P1 | B3 | | | | | | | | | | | | | | | x | | | | | x | | | | | | | | | | | | | | |
| Liberty Field | 1100 Liberty Square Road | P2 | B5-6, C5-6 | | | | | | | | | | | | | | | x | | | | | x | | | | | | | | | | | | | | |
| Flerra Meadows Community Garden | 296 Middle Road | P3 | D5, E4, E5 | | | | | | | | | | | | | | | x | | | | | x | | | | | | | | | | | | | | |
| Steele Farm Municipal Land | 484 Middle Road | P4 | D4, E4 | | | | | | | | | | | | | | | x | | | | x | x | | | x | | | | | | | | | | | |
| Flerra Meadows | 338 Stow Road | P5 | F5, G5 | | | | | | | | | | | | | | | x | | | | | x | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cemeteries | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Cemetery | 420 Burroughs Road | C1 | F5 | | | | | | | | | | | | | | | x | | | | x | | | | x | | | | | | | | | | | |
| North Cemetery | 450 Hill Road | C2 | D4 | | | | | | | | | | | | | | | x | | | | | | | | | | | | | | | | | | | |
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| OTHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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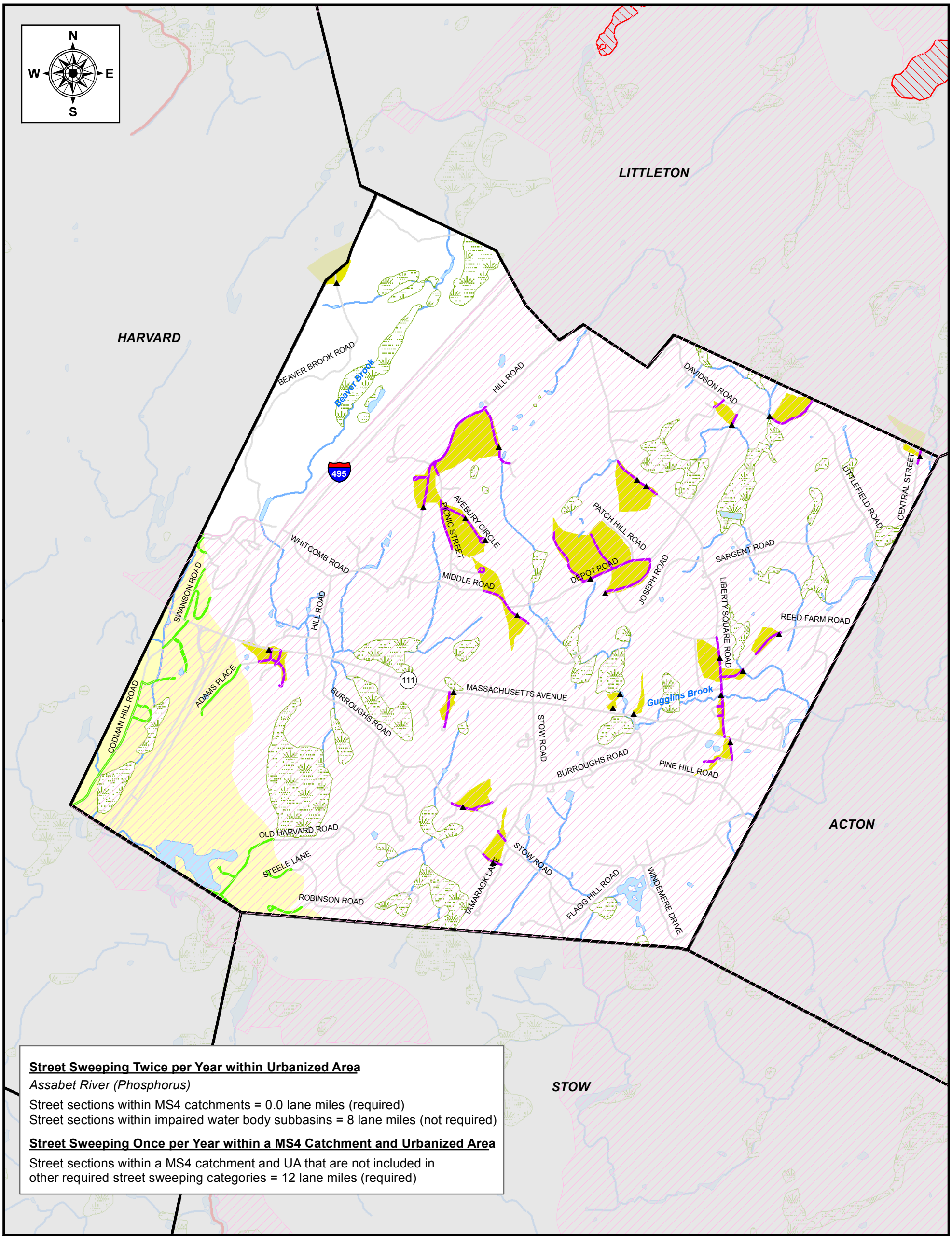
# Appendix E

## Street Sweeping Optimization Plan




**Street Sweeping Twice per Year within Urbanized Area**

*Assabet River (Phosphorus)*

Street sections within MS4 catchments = 0.0 lane miles (required)
Street sections within impaired water body subbasins = 8 lane miles (not required)

**Street Sweeping Once per Year within a MS4 Catchment and Urbanized Area**

Street sections within a MS4 catchment and UA that are not included in other required street sweeping categories = 12 lane miles (required)

## Legend

- MS4 Outfalls
- Urbanized Area - 2010

**303d Water Bodies**

- Impaired Lake, Pond
- Impaired River, Stream

**Hydrography**

- Lake, Pond, River
- Wetland
- Stream, Brook

**Outfall Catchments**

- Does Not Discharge to Impaired Water Body Subbasin within UA

**Impaired Water Body Subbasin**

**Sweep Twice a Year**

- Assabet River - Phosphorus
- Street Sweeping Once per Year within MS4 Catchment and UA (required)

**Street Sweeping Twice per Year, within UA**

- Within Impaired Water Body Subbasins (not required)

0 2,500 5,000 7,500 10,000 Feet

# Street Sweeping Map

**Sweeping per Phase II Requirements**

**Boxborough, Massachusetts**

**Comprehensive Environmental Inc.**

# Appendix F

## Catch Basin Optimization Plan

# Plan for Optimizing Catch Basin Cleaning

## Boxborough, MA

**Prepared June 30, 2019**

**Revised September 7, 2021**

### Prepared For:

**Town of Boxborough**
29 Middle Rd
Boxborough, MA 01719

### Prepared by:

**Comprehensive Environmental Inc.**
41 Main Street
Bolton, MA 01740

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Appendix B. Standard Operating Procedures for Catch Basin Cleaning and Inspection
Appendix C. Maps of Catch Basins >50% Full
Appendix D. Catch Basin Inspection Results
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Appendix F. Catch Basins > 50% Full
Appendix G. Complete List of Priority Catch Basins

# 1 Introduction

This Catch Basin Cleaning Optimization Plan has been prepared by Boxborough, MA to address the catch basin inspection, cleaning and maintenance requirements of the United States Environmental Protection Agency's (USEPA's) 2016 National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4) in Massachusetts, hereafter referred to as the "2016 MS4 Permit."

The 2016 MS4 Permit requires the permittee to document its plan for optimizing catch basin cleaning, inspections, or its schedule for gathering information to develop the optimization plan. This plan documents the Town's existing catch basin cleaning program and its plans for gathering additional information to refine its program to meet the requirements of the permit.

# 2 Permit Requirements

This Catch Basin Cleaning Optimization Plan addresses Section 2.3.7.1.a.iii.2 of the 2016 MS4 Permit (Infrastructure Operations and Maintenance), which includes the following requirements:

- **Establish a schedule** with the goal that the frequency of routine cleaning will ensure that no catch basin at any time will be more than 50 percent full[1];

- **Prioritize** inspection and maintenance for catch basins:
  - Located near construction activities[2]. These should be cleaned more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings;
  - Discharging to impaired waters where the pollutant of concern is E. coli or enterococcus; and
  - With sumps more than 50% full during consecutive inspections.

- **Establish proper documentation** of catch basin inspections to include:
  - The location and total number of catch basins;
  - The location and total number of catch basins cleaned or inspected; and
  - The total volume or mass of material removed from catch basins.

**Develop an optimization plan** (this plan) for catch basin cleaning, inspection plans, or a schedule for gathering information to develop the optimization plan in the first annual report and in the SWMP.

[1] A catch basin sump is more than 50 percent full if the contents within the sump exceed one half the distance between the bottom interior of the catch basin to the invert of the deepest outlet of the catch basin.
[2] Roadway construction; residential, commercial, or industrial development or redevelopment.

# 3 Existing Catch Basin Management Program

The Town has approximately 550 town-owned catch basins to clean and maintain (refer to the map in **Appendix A**). Boxborough currently cleans all of their catch basins each year using an outside contractor. Most years, the cleanings are completed over three to four days using a clamshell truck and all are cleaned before November of each year. The materials are disposed of by the outside contractor responsible for cleaning the catch basins. Note that other catch basins in town owned by others (e.g. MassDOT, private entities) are not maintained by the Town and thus are not addressed by this plan.

# 4 Refined Catch Basin Management Program

## 4.1 Optimization Methodology

Boxborough implemented its existing annual catch basin cleaning program as outlined above through 2019 and 2020. During this time, it collected data on the sump depth and sediment depth in each catch basin. A spreadsheet was used to track sediment depth at each location, along with an inspection form included with the standard operating procedure (SOP) in **Appendix B** used to document data collected during cleaning.

Catch basin inspection data from 2019 and 2020 was reviewed and compared to refine catch basin cleaning frequencies. Catch basins that may require more frequent inspection and/or cleaning have been identified. The primary factor that was considered during prioritization was catch basins with sumps more than 50% full during consecutive inspections. From the 2019 and 2020 data, a total of 65 catch basins had sumps more than 50% full both years. Results are documented further in the next section.

## 4.2 Catch Basin Inspection Results

In 2019 and 2020, Boxborough continued to implement its existing annual catch basin cleaning. During this time, the Town collected data for each cleaned basin that included the following:

- Total depth of each catch basin;
- Depth to sediment before cleaning;
- Depth to the bottom of the basin after cleaning;
- Sump depth within each basin;
- Material inventory of the basin, frame, grate, chimney, etc.;
- General condition assessment of the interior of the basin;
- General condition of the exterior and basin rim; and
- Any potential illicit discharge indicators.

Catch basin inspections were conducted concurrent with cleaning activities in summer 2019 and fall 2020. A total of 549 catch basins were inspected in 2019 and 516 catch basins were inspected in 2020. Of these catch basins, 3 were not cleaned in 2019 and 5 were not cleaned in 2020 due to obstructions such as dumpsters or cars in the way, or were excessively full of

compacted sediment that could not be removed. The catch basins that were not inspected could either not be found or not be accessed.

A total of 157 catch basins (29%) inspected in 2019 had sumps more than 50% full, including 12 catch basins (2%) that were completely full. Similarly, a total of 129 catch basins (25%) inspected in 2020 had sumps more than 50% full, including 22 catch basins (4%) that were completely full. A total of 65 catch basins were more than 50% full in consecutive years, including 5 that were completely full in consecutive years. A total of 54 catch basins (10%) inspected in 2019 and 22 catch basins (4%) of catch basins inspected in 2020 had unknown sump fullness due to unclear sump and/or sediment depths. A summary of the inspection results can be found below in Table 1. Based on the 2019 and 2020 inspection data, maps of catch basins more than 50% full were developed and are included in **Appendix C**. The complete inspection results, including all field comments, are in **Appendix D**.

**Table 1: Summary of 2019/2020 Inspection Results**

| Sump Fullness % | 2019 | 2020 | Consecutive Years[1] |
|---|---|---|---|
| Full | 12 | 22 | 5 |
| 75% to 100% | 38 | 23 | 11 |
| 50% to 75% | 107 | 84 | 33 |
| 25% to 50% | 205 | 183 | 90 |
| <25% | 133 | 182 | 74 |
| Unknown | 54 | 22 | 11 |
| **Total Inspected** | 549 | 516 | 510 |
| Illicit Discharge Potential | 38 | 15 | 2 |

[1]A total of 65 basins were more than 50% full in consecutive years, however, numbers in Table 1 do not add to this figure as a basin may be, for example, 50% to 75% full in one year and 75% to 100% full in the next.

During inspections, the Town also documented any illicit discharge indicators such as visual or olfactory evidence, sewage odor, suds, and/or oily sheen in the catch basin. In 2019 and 2020, there were no obvious indicators of illicit discharges such as evidence of toilet paper or other similar evidence. Minor evidence, such as some olfactory evidence of sewer smell, organic decay, suds, oil sheen, etc. was observed at 26 locations. 35 locations were observed to have unknown pipes entering the basins, likely from residential sump pumps and/or roadway underdrains. A table of all catch basins that exhibited minor evidence of illicit discharge and corresponding field notes is found in **Appendix E**.

# 5 Recommendations and Next Steps

## 5.1 Priority Areas

Catch basins with sumps that were completely full during consecutive years are listed below in Table 2. These 5 catch basins are the top priority for cleanings and inspections. The remaining 60 of the 65 catch basins with sumps more than 50% full during consecutive years should be prioritized second. A complete list of these catch basins is found in **Appendix F**.

**Table 2: Catch Basins 100% Full During Consecutive Years**

| Catch Basin ID | Street Location |
|---|---|
| 13 | Swanson Road |
| 16 | Hill Road |
| 473 | Liberty Square Road |
| 484 | Liberty Square Road |
| 485 | Liberty Square Road |

Of the 65 catch basins with sumps more than 50% full during consecutive years, 38 of them can be found on the same streets. These streets may be prioritized for more frequent catch basin cleanings and/or street sweeping as the locations or conditions of these streets in town may be contributing factors to the amount of sediment in the catch basins. A breakdown of prioritized catch basins on the same streets is shown below in Table 3.

**Table 3: Priority Streets**

| Street Location | Catch Basin ID | Street Location | Catch Basin ID |
|---|---|---|---|
| Middle Road | 17 | Waite Road | 457 |
| | 18 | | 459 |
| | 19 | | 460 |
| | 95 | | 461 |
| | 98 | | 462 |
| | 536 | Box Mill Road | 487 |
| Liberty Square Road | 445 | | 488 |
| | 472 | | 543 |
| | 473 | | 544 |
| | 474 | Guggins Lane | 493 |
| | 481 | | 496 |
| | 483 | | 537 |
| | 484 | | 538 |
| | 485 | Depot Road | 34 |
| | 545 | | 65 |
| School House Lane | 138 | | 70 |
| | 141 | Hill Road | 16 |
| | 144 | | 134 |
| | 145 | | 136 |

Although there was no obvious evidence of illicit discharges during the 2019 and 2020 inspections, catch basins that had both olfactory and/or visual indicators and unknown pipes entering should be prioritized for further investigation. Table 4 below outlines the 10 catch basins that exhibited both minor indicators and unknown pipes entering.

**Table 4: Potential Illicit Discharges**

| Catch Basin ID | Street Location | Catch Basin ID | Street Location |
|---|---|---|---|
| 122 | Tokatawan Spring | 254 | Pierce Lane |
| 129 | Tokatawan Spring | 257 | Coolidge Farm Road |
| 133 | Hill Road | 279 | Burroughs Road |
| 178 | Robinson Road | 285 | Priest Lane |
| 181 | Robinson Road | 388 | Pine Pasture Run |

## 5.2 Summary

Table 5 below summarizes the prioritization of catch basins that may require more frequent cleaning and/or inspection. A complete list of prioritized catch basins is found in **Appendix G**.

**Table 5: Summary of Catch Basin Prioritization for Cleaning and/or Inspections**

| Priority | Prioritization Category | # of Catch Basins |
|---|---|---|
| 1 | Full During Consecutive Years | 5 |
| 2 | 50% to 100% Full During Consecutive Years | 60 |
| 3 | Potential Illicit Discharge[1] | 10 |

[1]For at least one year, catch basins with both unknown pipes and olfactory/visual indicators

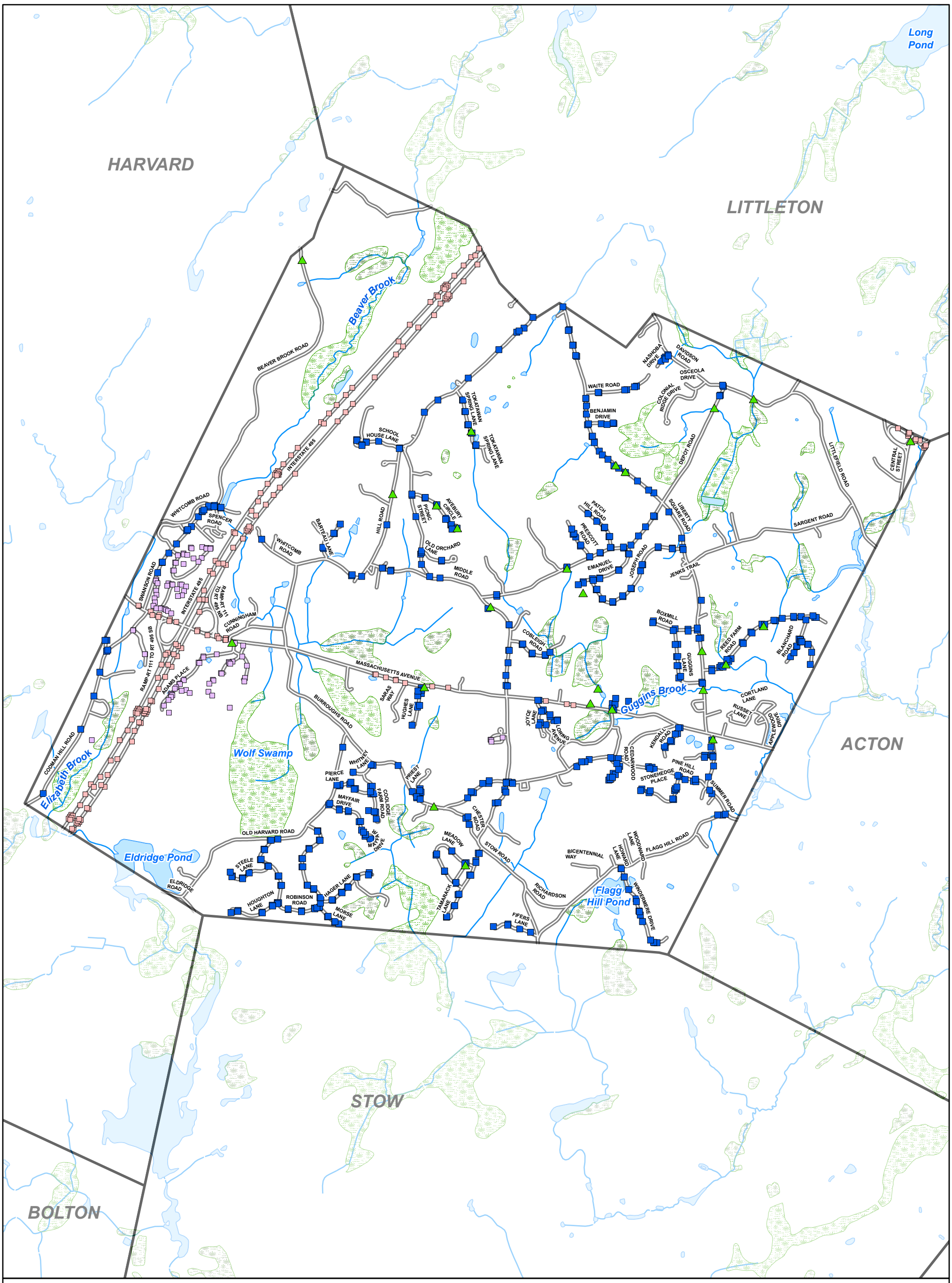
## 5.3 Next Steps

Based on the above, it is recommended that the Town work to complete the items outlined below:

- The 5 catch basins that were completely full during consecutive years (Table 2) should be inspected quarterly to ensure they are functioning properly. Basins should be cleaned if needed to prevent flooding.
- The remaining 60 of 65 catch basins that were more than 50% full during consecutive years (**Appendix F**) should be inspected in the spring after winter operations and again in the early fall to ensure they are functioning properly. Basins should be cleaned if needed to prevent flooding.
- Priority streets outlined in Table 3 should be swept and/or the remaining catch basins located on these streets should be cleaned more frequently if feasible.
- As required in the MS4 permit, the contributing drainage area of the 65 catch basins that were more than 50% full during two consecutive routine inspections/cleaning events must be investigated for sources of excessive sediment loading. To the extent practicable, contributing sources must be abated. It is recommended that the Town complete this work in conjunction with other field exercises, including mapping pipe connectivity and completing catchment investigation, by the end of Year 10 (June 2028).
- The 10 catch basins with illicit discharge potential, defined as catch basins with both unknown pipes and olfactory/visual indicators (Table 4), should be prioritized for inspections and investigated further under the catchment investigations to be completed by the end of Year 10 (June 2028). The remaining 41 catch basins that exhibited minor evidence of illicit discharge (**Appendix E**) should be monitored during future years.

# Appendix A

## Map of Drainage Infrastructure




## Legend

- Outfall
- Town-Owned Catch Basin
- State-Owned Catch Basin
- Privately Owned Catch Basin
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

0 0.25 0.5 0.75 1
Miles

# Stormwater Infrastructure Map

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021

# Appendix B

## Standard Operating Procedures for Catch Basin Cleaning and Inspection

# SOP. MI-2 Catch Basin Cleaning and Inspection

## Permit Requirements

As required by the 2016 MS4 Permit, catch basin inspection and cleaning requirements include the following:

- **Inspect and clean catch basins** to ensure that no catch basin is not more than 50 percent full;
- **Prioritize inspection and maintenance** for catch basins:
  - located near construction activities;
  - discharging to impaired waters; and
  - with sumps more than 50% full during consecutive inspections.
- **Establish proper documentation** of catch basin inspections; and
- **Develop an optimization plan** for catch basin cleaning and inspection**.**

## Before Cleaning and/or Inspection

- **Notify residents and business** of catch basin cleaning schedule to restrict parking that could obstruct catch basin cleaning operations.
- **Gather** all required forms and maps.
  - Catch Basin Inspection Form; and
  - Maps of area to be cleaned/inspected

## Cleaning and Inspection during Cleaning

1. Clean sediment and trash off of grate.
2. Remove grate.
3. Fill out **Catch Basin Inspection Form** with basin-specific information:
   - **Before cleaning**:
     - Do a visual inspection of outside of grate.
     - Do a visual inspection of the inside of the catch basin to determine cleaning needs and structural issues.
     - Measure depth from rim of catch basin to top of sediment.
     - Measure depth from rim of catch basin to the top of the outlet pipe.
     - Take photo of catch basin.
   - **Clean catch basin**:
     - For manual removal, place removed material in a location protected from potential runoff and place cleanings in a vehicle for transport to designated disposal area.
     - OR use a high-powered vac truck to remove sediment.
   - **After cleaning**:

- Measure depth from rim to bottom of catch basin.
- Measure depth of sump (outlet pipe to bottom of catch basin).
- Note if the catch basin is more than 50% full with sediment.
- Note if the catch basin requires maintenance or it there are pollutants present.
- Take photo of catch basin.

4. **Storage:** Bring cleanings to designated location for storage and disposal.
5. If any illicit discharges are observed or suspected, notify supervisor.

## Interim Inspection between Cleaning Cycles

1. Clean sediment and trash off grate.
2. Remove grate.
3. Fill out **Catch Basin Inspection Form** with basin-specific information:
    - Do a visual inspection of outside of grate.
    - Do a visual inspection of the inside of the catch basin to determine cleaning needs and structural issues.
    - Measure depth from rim of catch basin to top of sediment.
    - Using sump depth collected during previous cleaning, note if the catch basin is more than 50% full with sediment.
    - Note if the catch basin requires maintenance or if there are pollutants present.
4. If any illicit discharges are observed or suspected, notify supervisor.

## Catch Basin Inspection Form

| **Inspection Information** | | | |
|---|---|---|---|
| Catch Basin ID | | | |
| Street Location | | GPS Location | |
| Inspector's Name | | | |
| Date of Inspection | | Time of Inspection | |
| Weather (circle) | Dry Light Rain Heavy Rain Snow | | |

| **Catch Basin Information** | | |
|---|---|---|
| **Location** | **Surface Type** | **Grate** |
| ☐ Road/Curb<br>☐ Alley<br>☐ Ditch<br>☐ Parking Lot<br>☐ Driveway<br>☐ Sidewalk<br>Other:_____ | ☐ Asphalt<br>☐ Gravel<br>☐ Concrete<br>☐ Grass/Dirt<br>Other:_____ | ____inches x ____ inches<br>Material:<br>_____<br>Shape: |

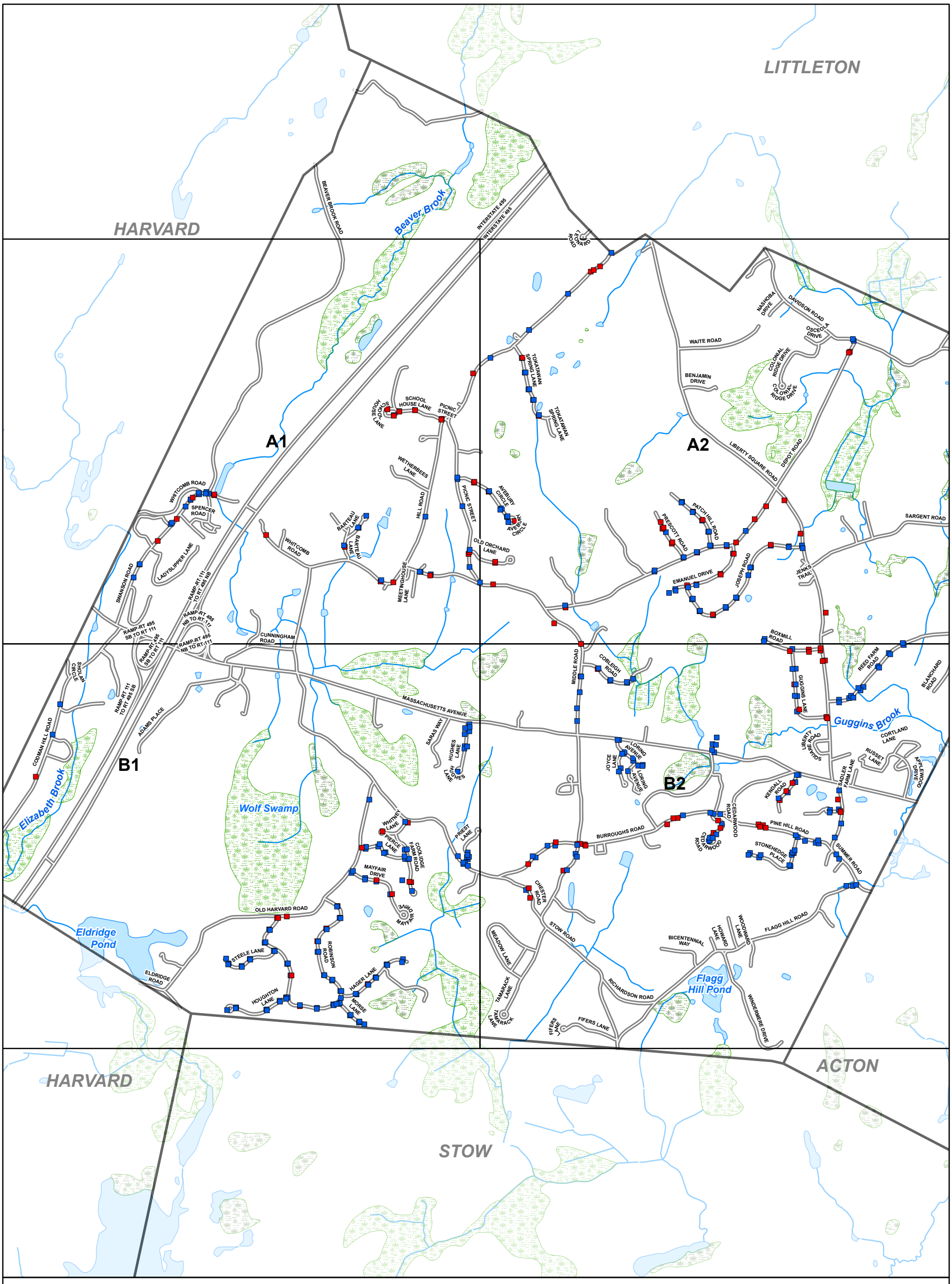
| **Catch Basin Condition** | |
|---|---|
| CB Damage: No Yes | Comment: |

| | **Materials (circle)** | | | | | **Condition (circle)** | | | |
|---|---|---|---|---|---|---|---|---|---|
| Grate | Cast Iron | Brick | Concrete | Aluminum | Fiberglass | Poor | Fair | Good | Excellent |
| Frame | Cast Iron | Brick | Concrete | Aluminum | Fiberglass | Poor | Fair | Good | Excellent |
| Chimney | Cast Iron | Brick | Concrete | Aluminum | Fiberglass | Poor | Fair | Good | Excellent |
| Walls | Cast Iron | Brick | Concrete | Aluminum | Fiberglass | Poor | Fair | Good | Excellent |
| Trap/Hood | Cast Iron | Brick | Concrete | Aluminum | Fiberglass | Poor | Fair | Good | Excellent |
| Sump | Cast Iron | Brick | Concrete | Aluminum | Fiberglass | Poor | Fair | Good | Excellent |

| **Sediment Depth and IDDE (inches)** | |
|---|---|
| A. Depth from Rim to Top of Sediment: _____<br>B. Depth from Rim to Bottom of Basin (after vac): _____<br>C. Sump Depth: _____<br>D. Depth of Sediment (B-A): _____<br>E. More than 50% Full of Sediment? (D/C): _____<br><br>**CB Cleaned?** No Yes<br>**Suspected illicit discharge?** No Yes | Check those Present:<br>__Sanitary Waste/Smell<br>__Excessive Sediment<br>__Oil Sheen<br>__Floatables/Trash<br>__Pet Waste:<br>Other:_____<br>Potential Source: _____ |

# Appendix C

Maps of Catch Basins > 50% Full




## Legend

2019 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

0 1,000
Feet

Sheet:

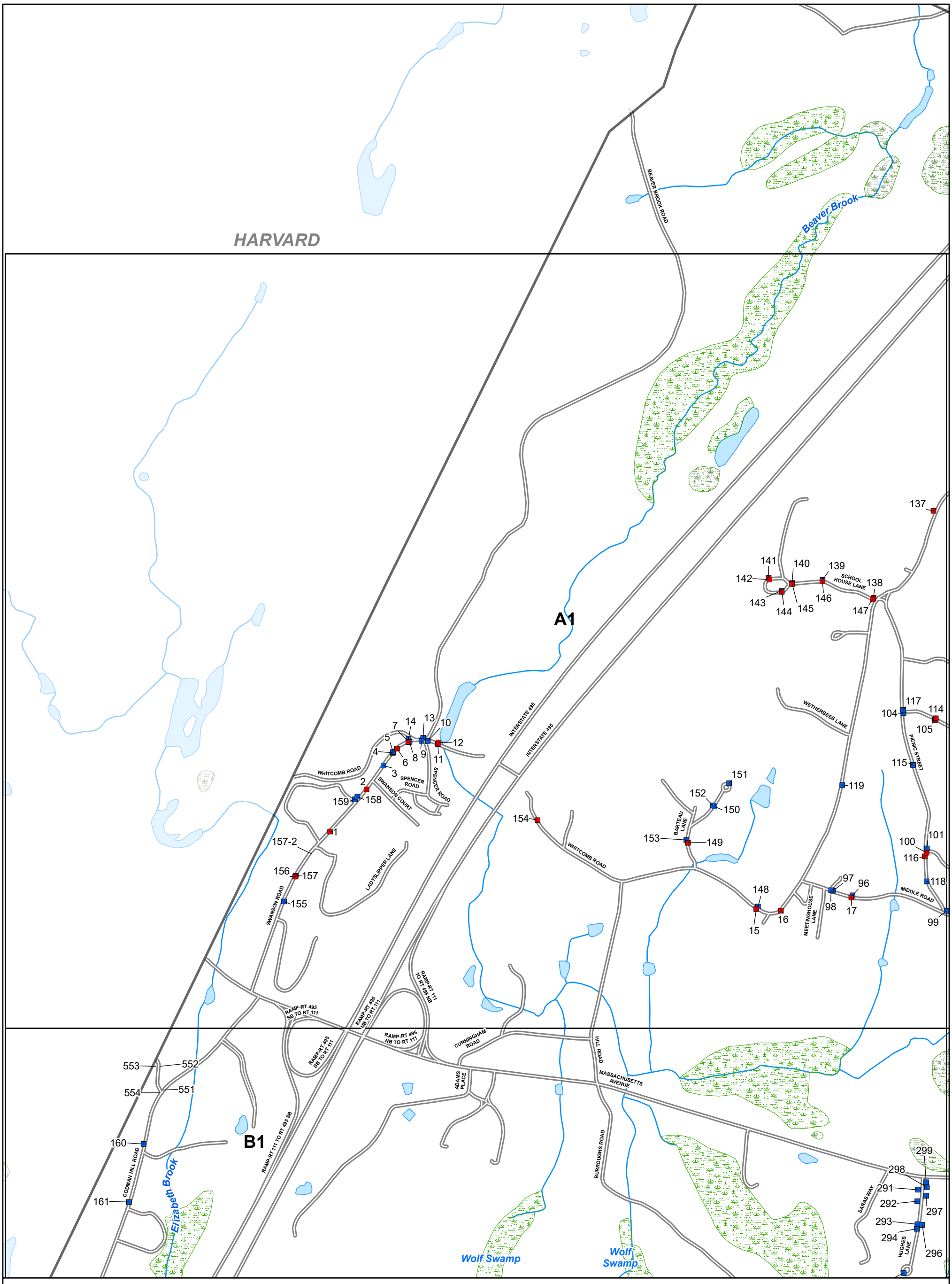
# Full Catch Basins in 2019

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2019 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

0 1,000
Feet

Sheet: A1

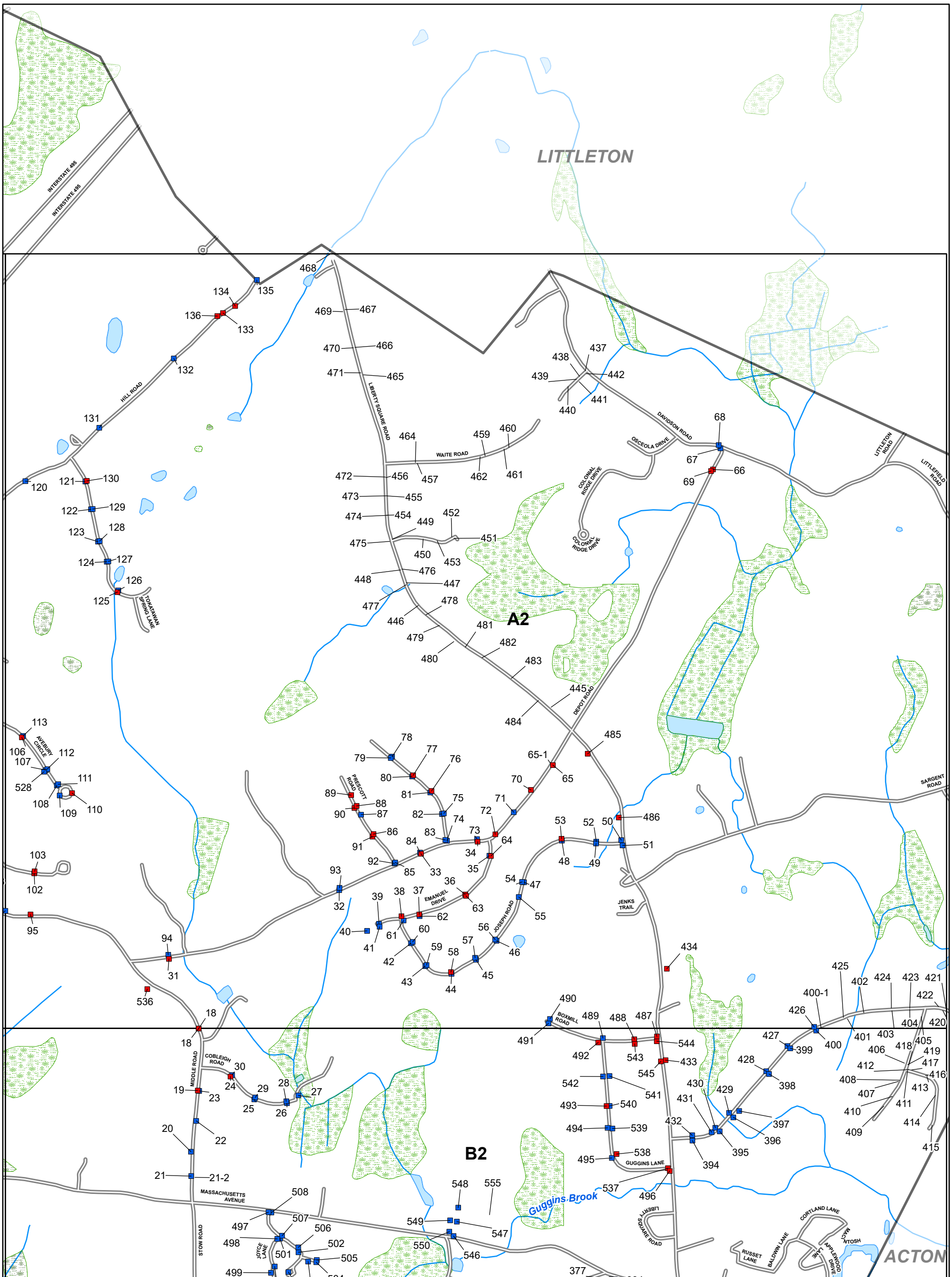
# Full Catch Basins in 2019

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2019 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: A2

0 1,000 Feet

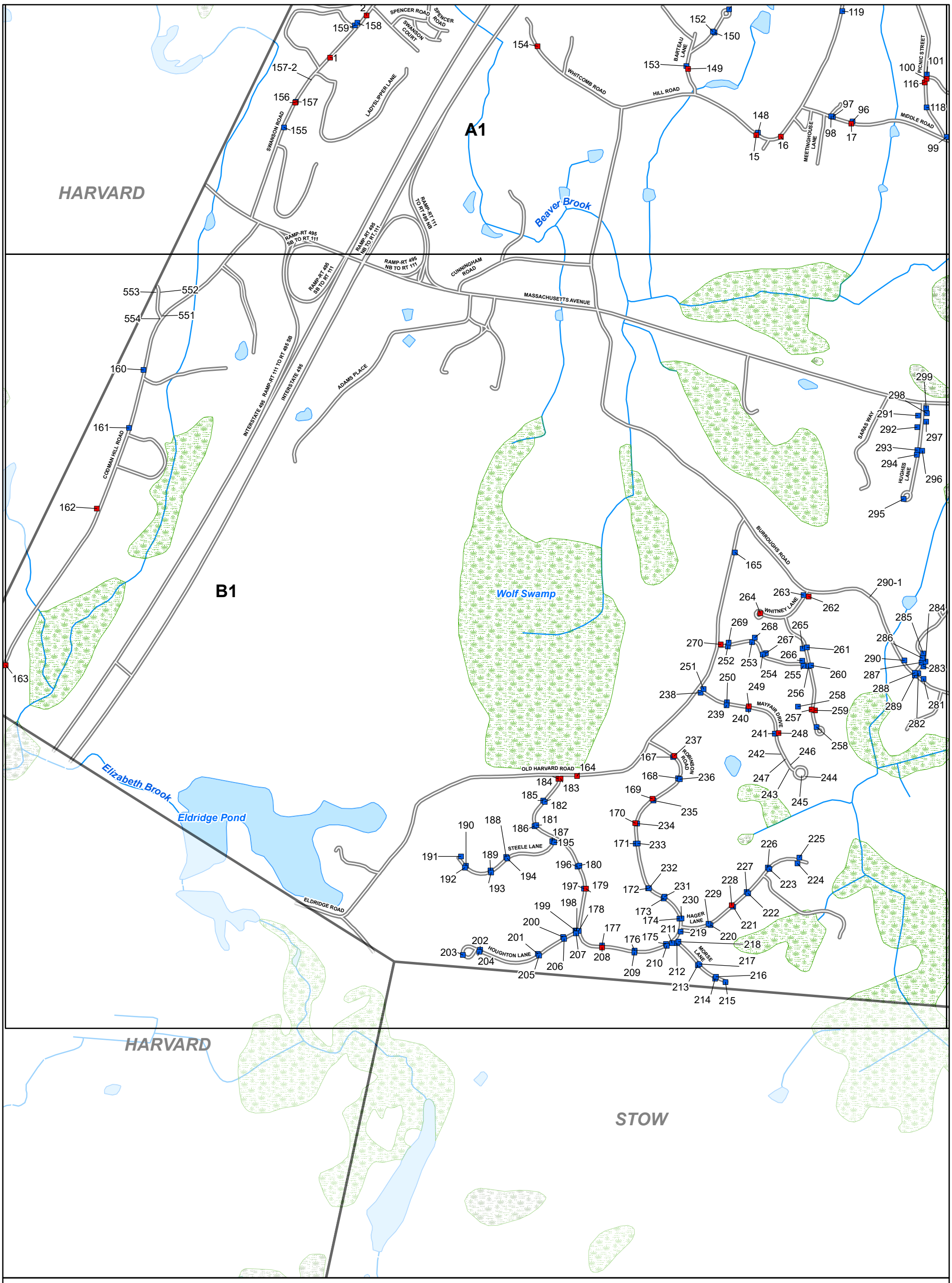
# Full Catch Basins in 2019

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2019 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: B1

0 1,000 Feet

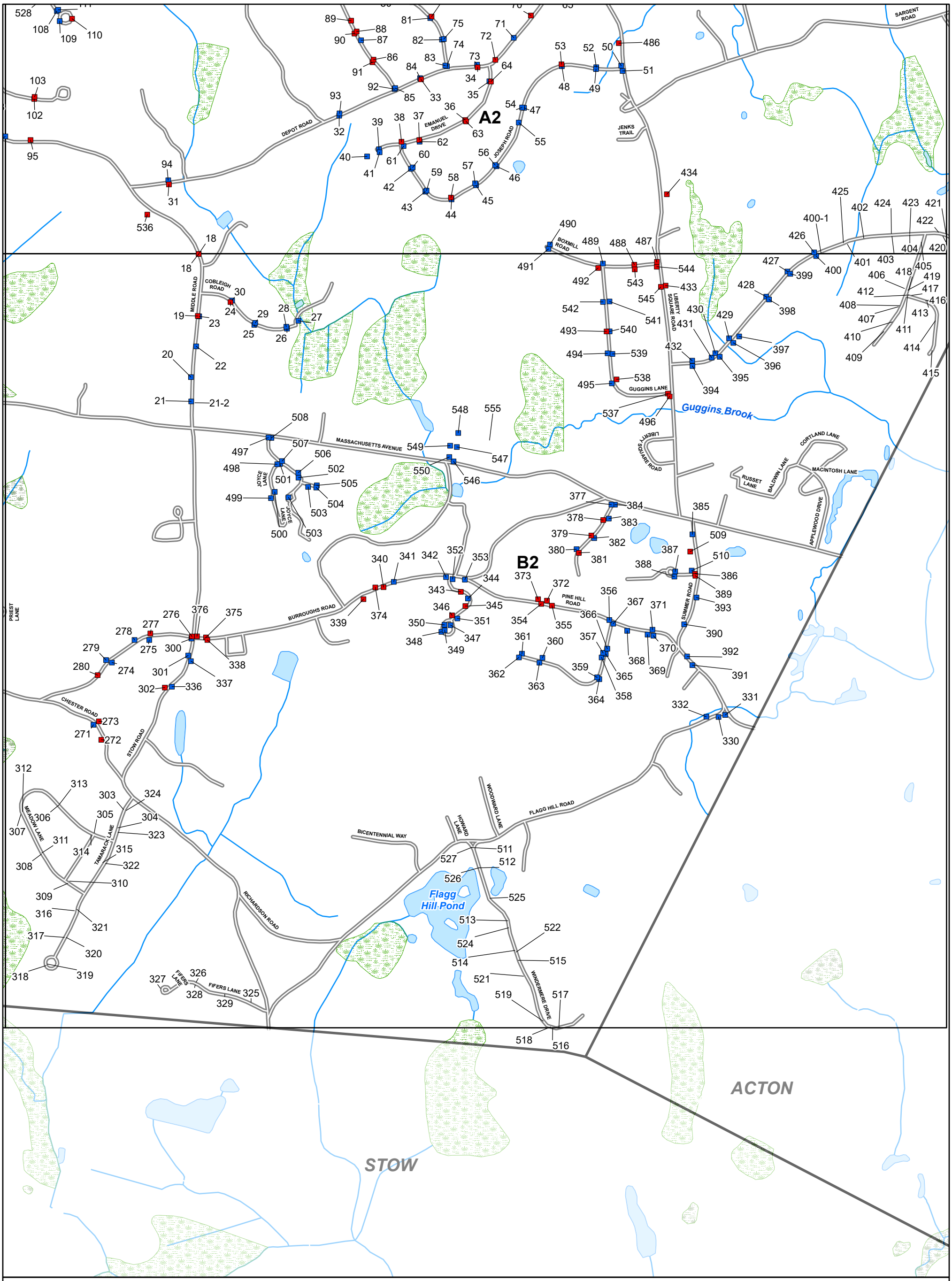
# Full Catch Basins in 2019

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2019 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: B2

0 1,000 Feet

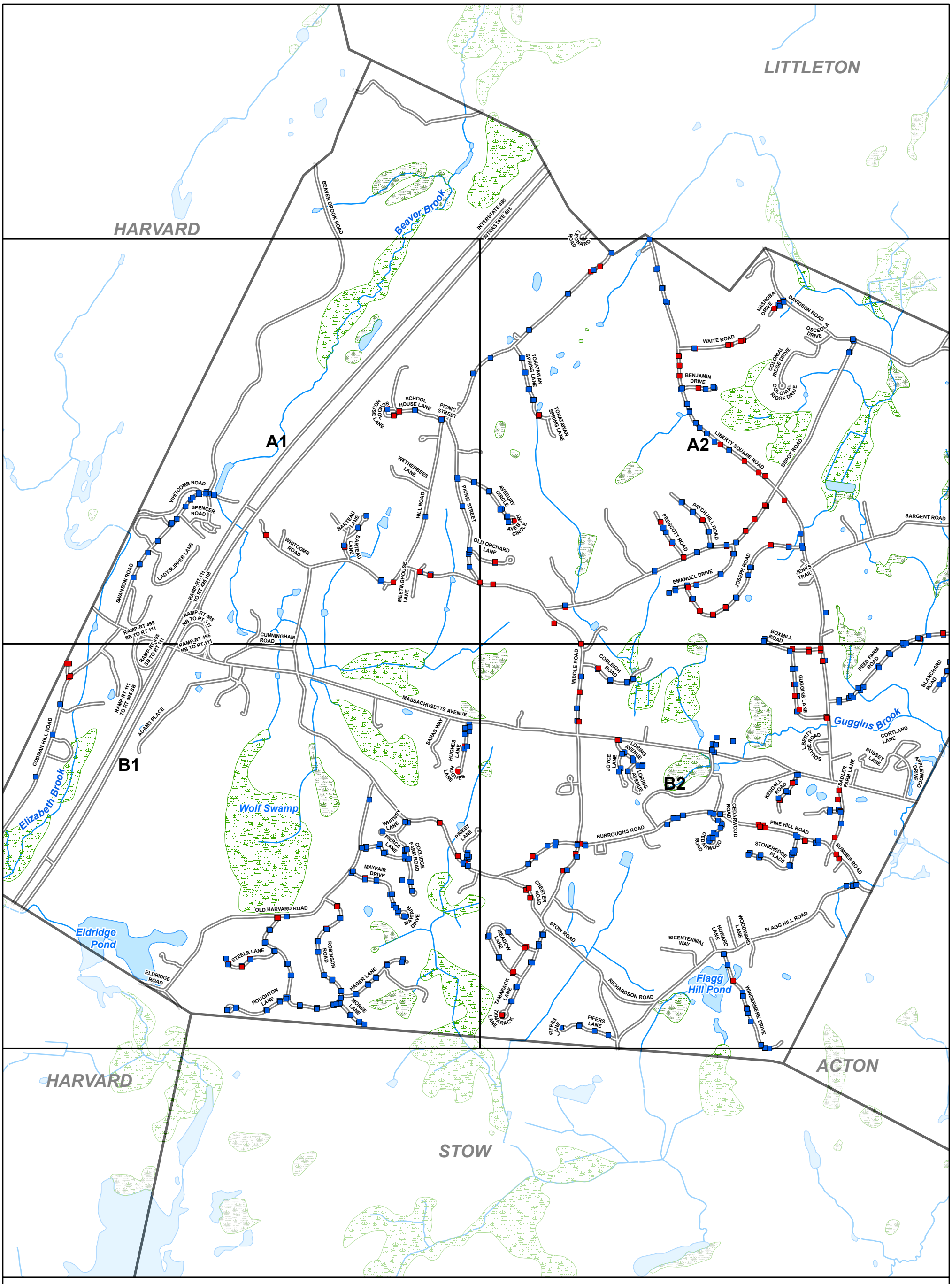
# Full Catch Basins in 2019

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2020 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

0 1,000 Feet

Sheet:

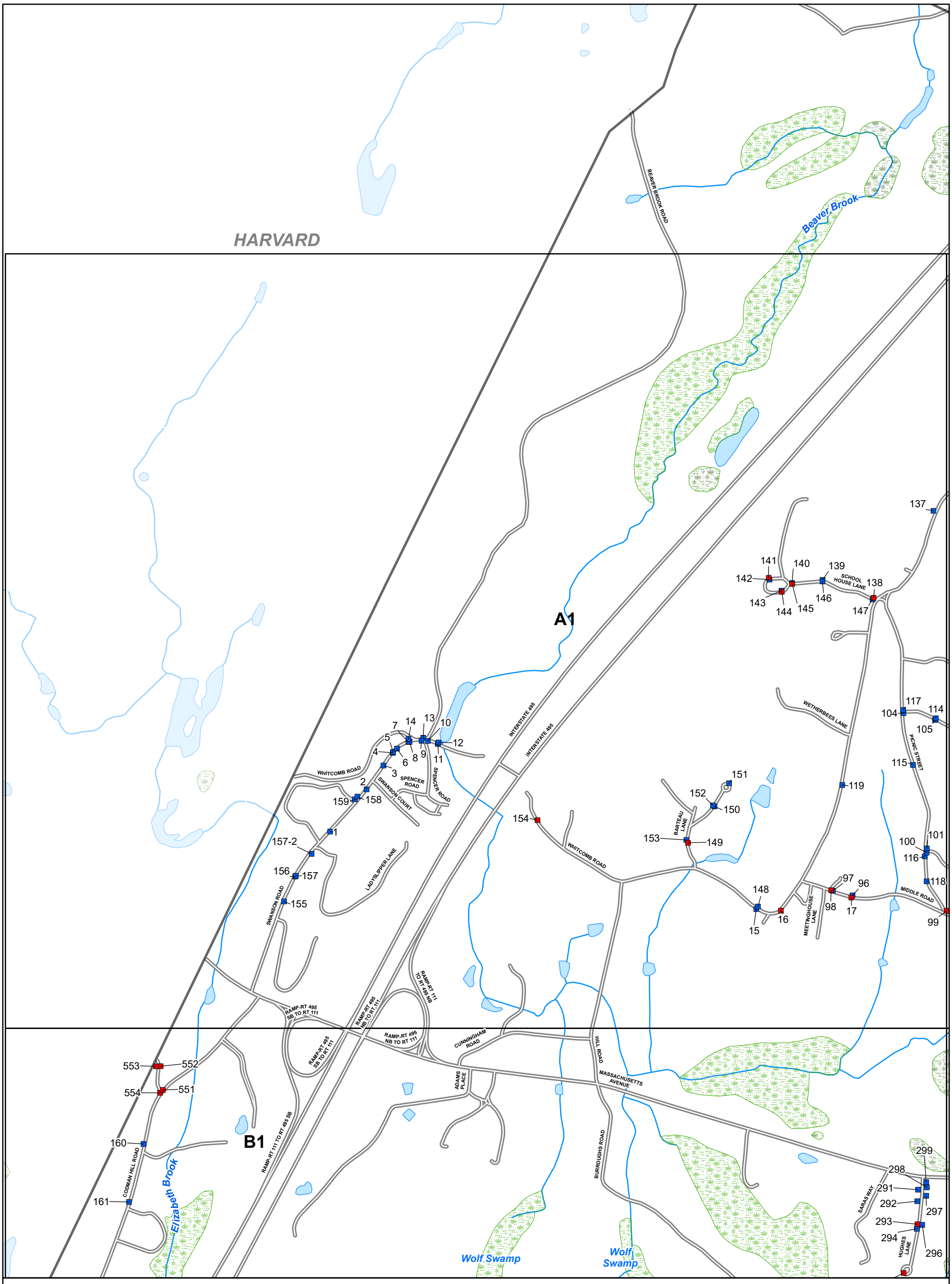
# Full Catch Basins in 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2020 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

0 1,000
Feet

Sheet: A1

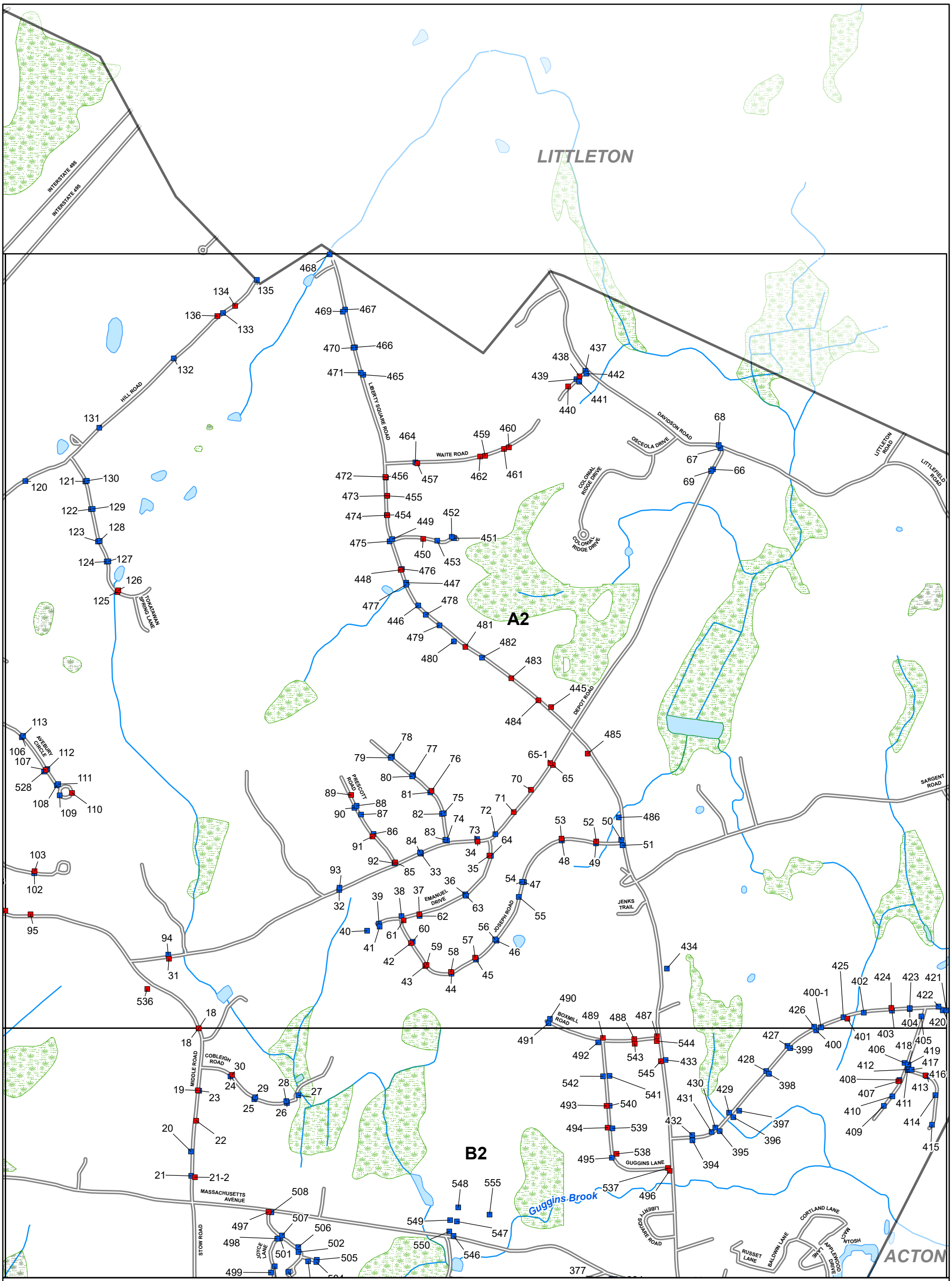
# Full Catch Basins in 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2020 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: A2

0 1,000 Feet

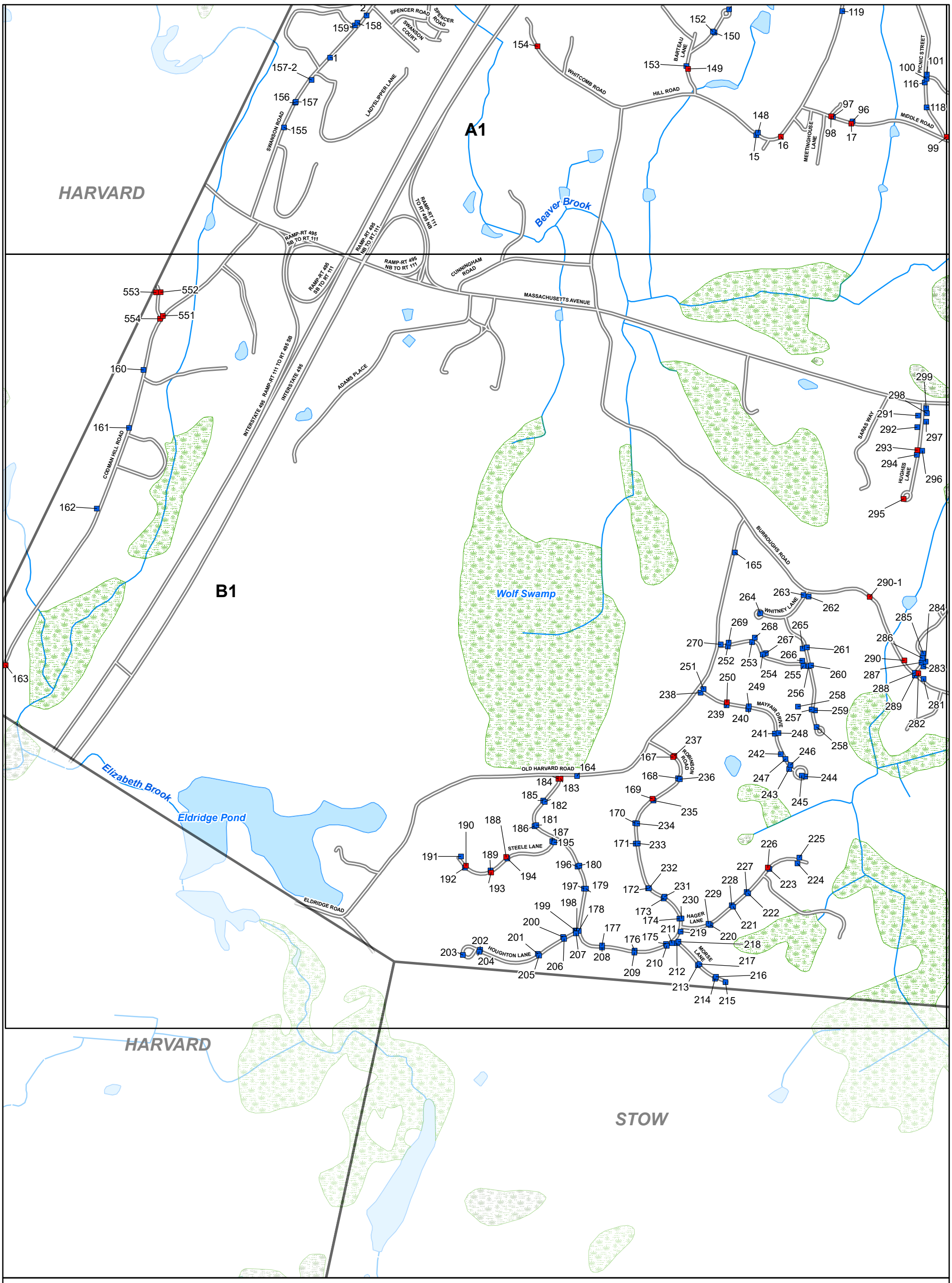
# Full Catch Basins in 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2020 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: B1

0 1,000 Feet

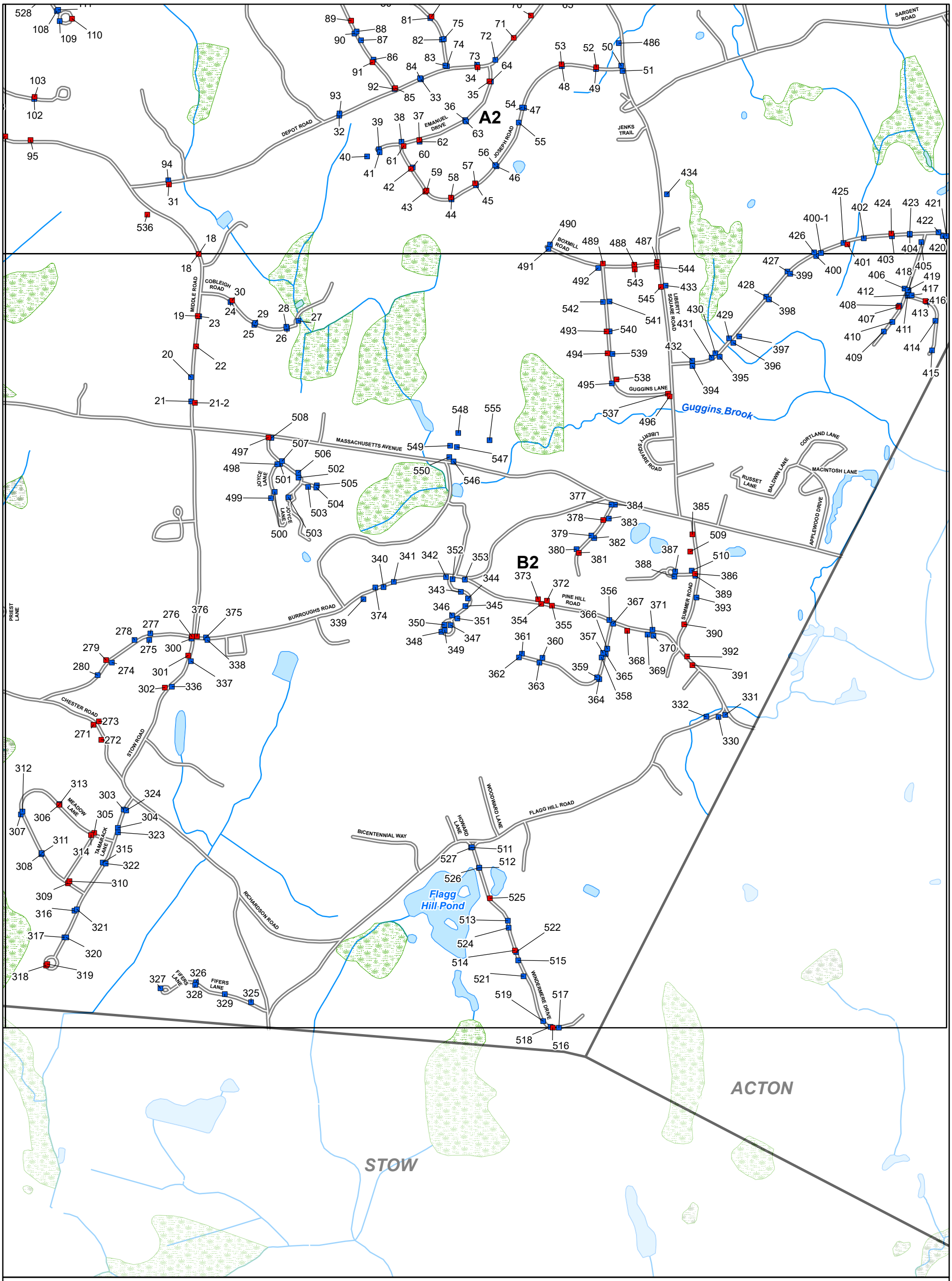
# Full Catch Basins in 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

2020 Catch Basin Sediment Levels:

- Over 50%
- Under 50%
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: B2

0 1,000 Feet

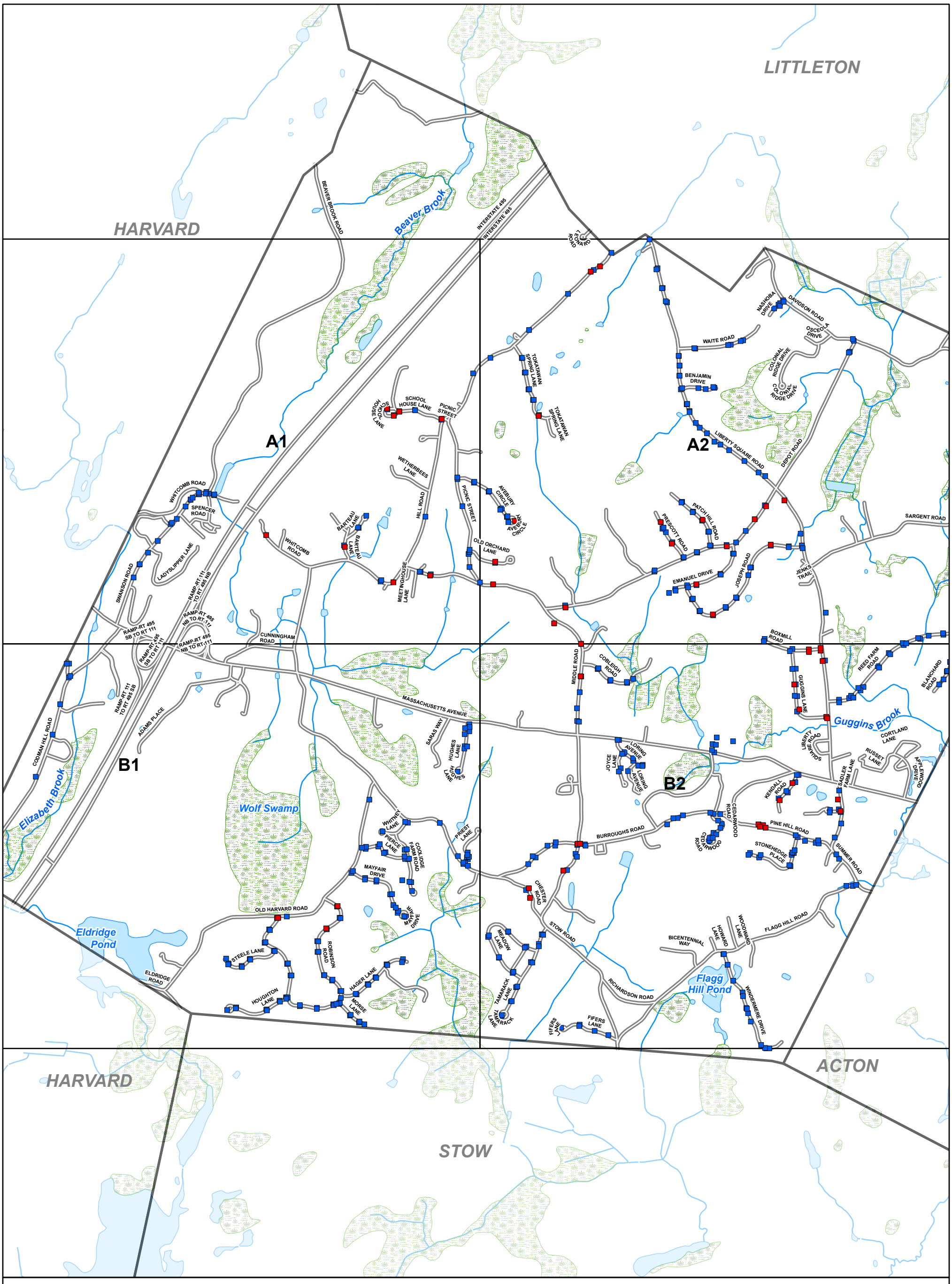
# Full Catch Basins in 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

- Catch Basin >50% Full in 2019 & 2020
- Catch Basin <50% Full in 2019 & 2020
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

0 1,000
Feet

Sheet:

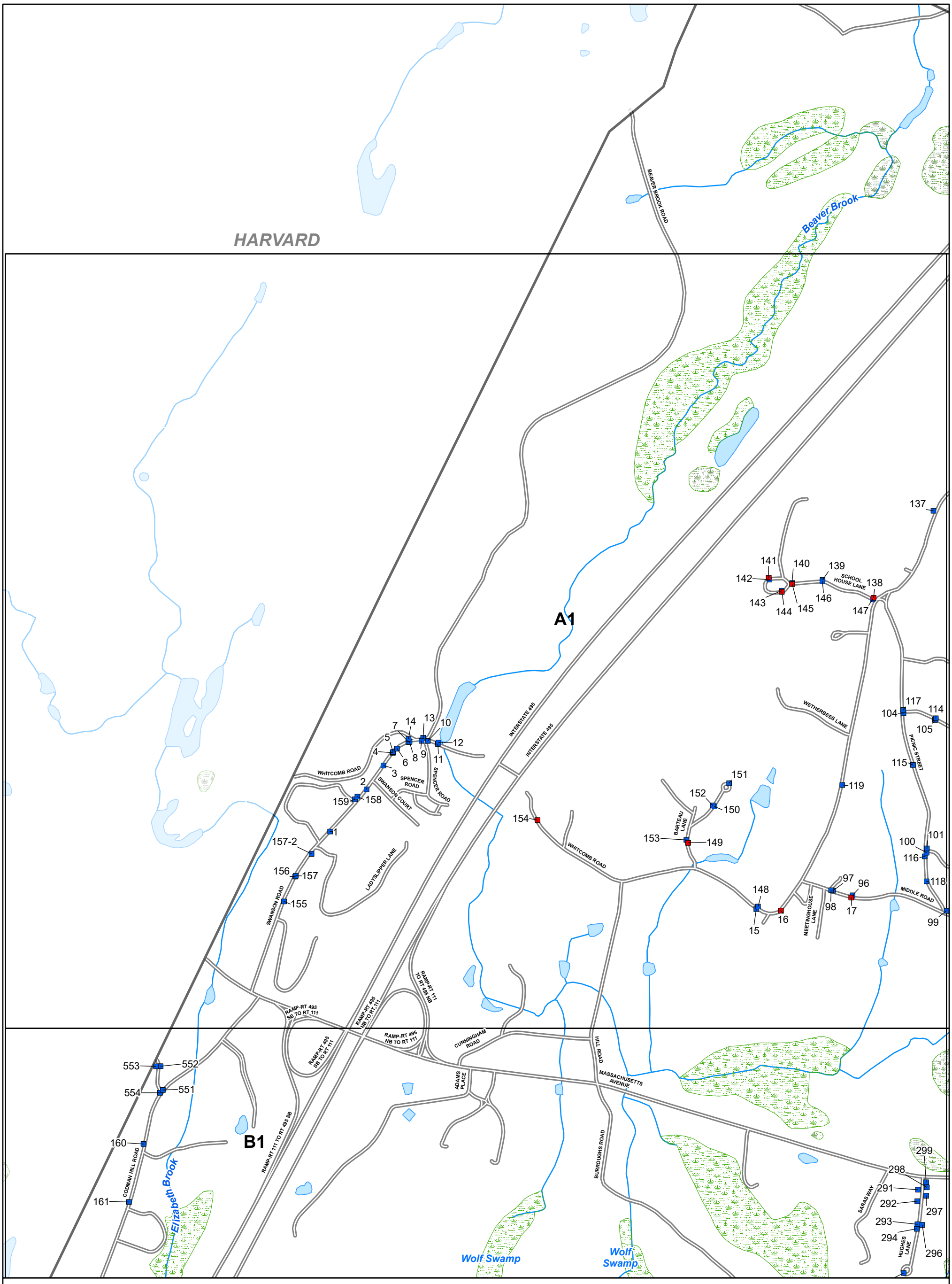
# Full Catch Basins in 2019 and 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

- Catch Basin >50% Full in 2019 & 2020
- Catch Basin <50% Full in 2019 & 2020
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: A1

0 1,000 Feet

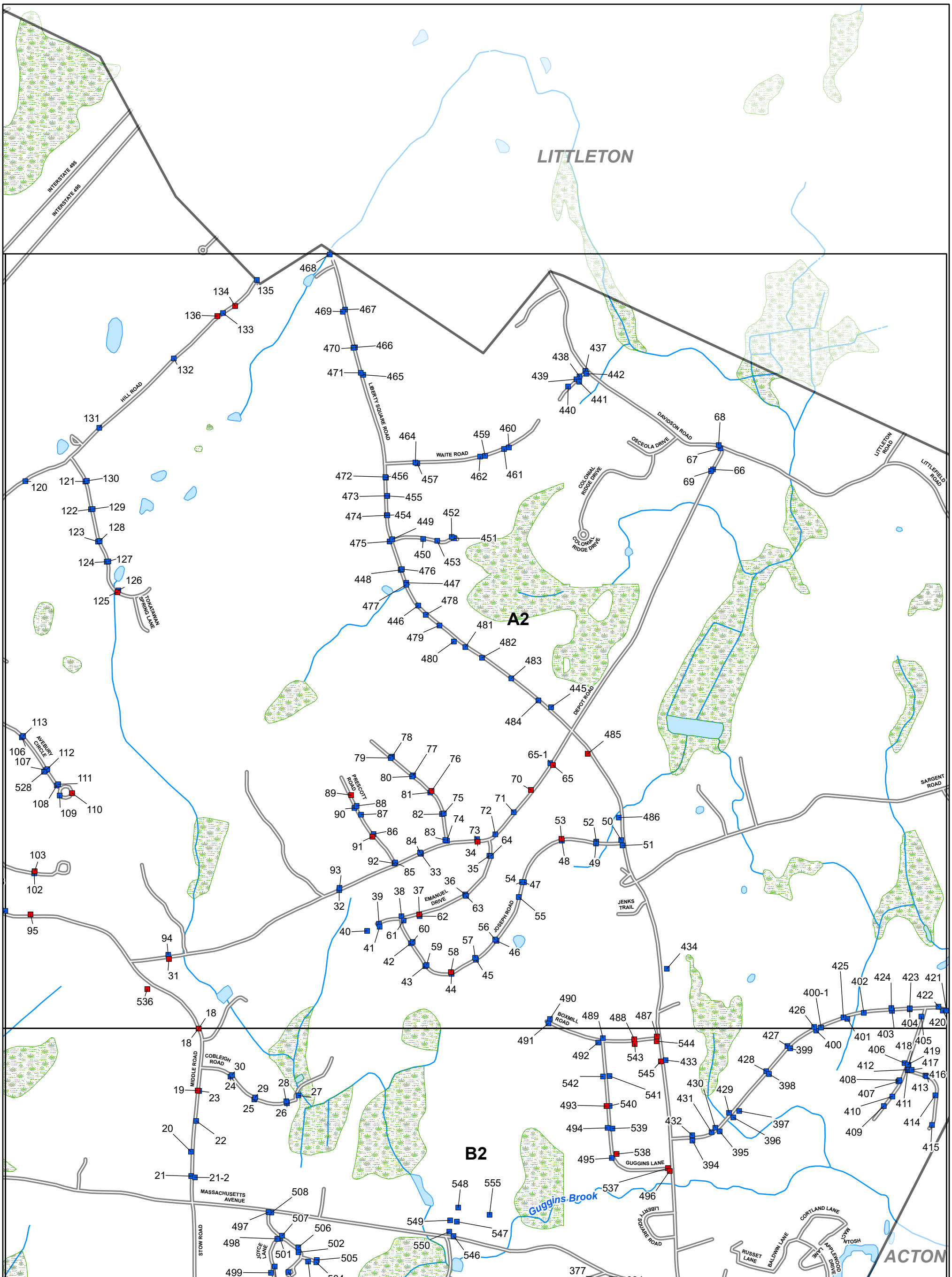
# Full Catch Basins in 2019 & 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

- Catch Basin >50% Full in 2019 & 2020
- Catch Basin <50% Full in 2019 & 2020
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: A2

0 1,000 Feet

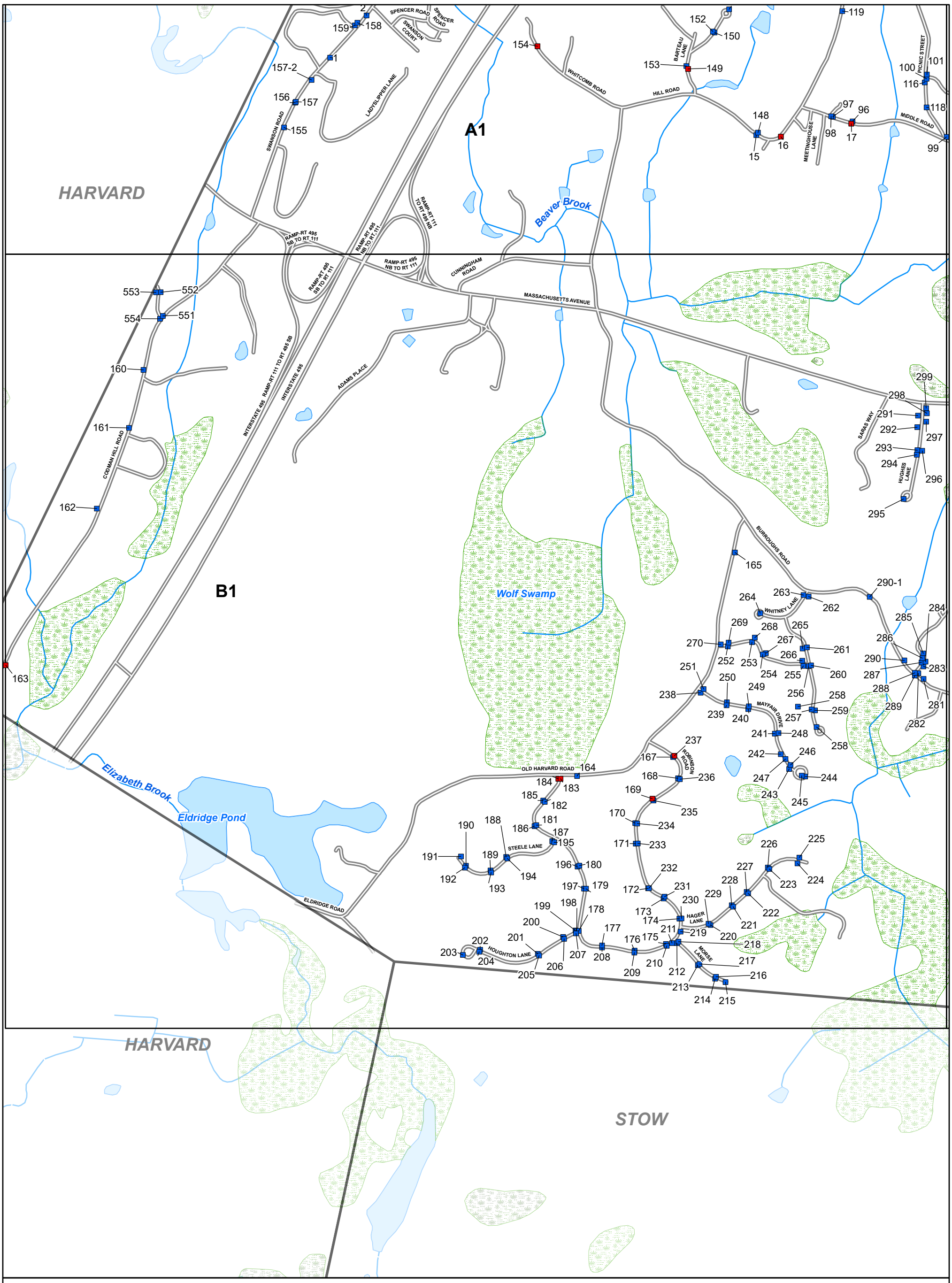
# Full Catch Basins in 2019 & 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

- Catch Basin >50% Full in 2019 & 2020
- Catch Basin <50% Full in 2019 & 2020
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: B1

0 1,000 Feet

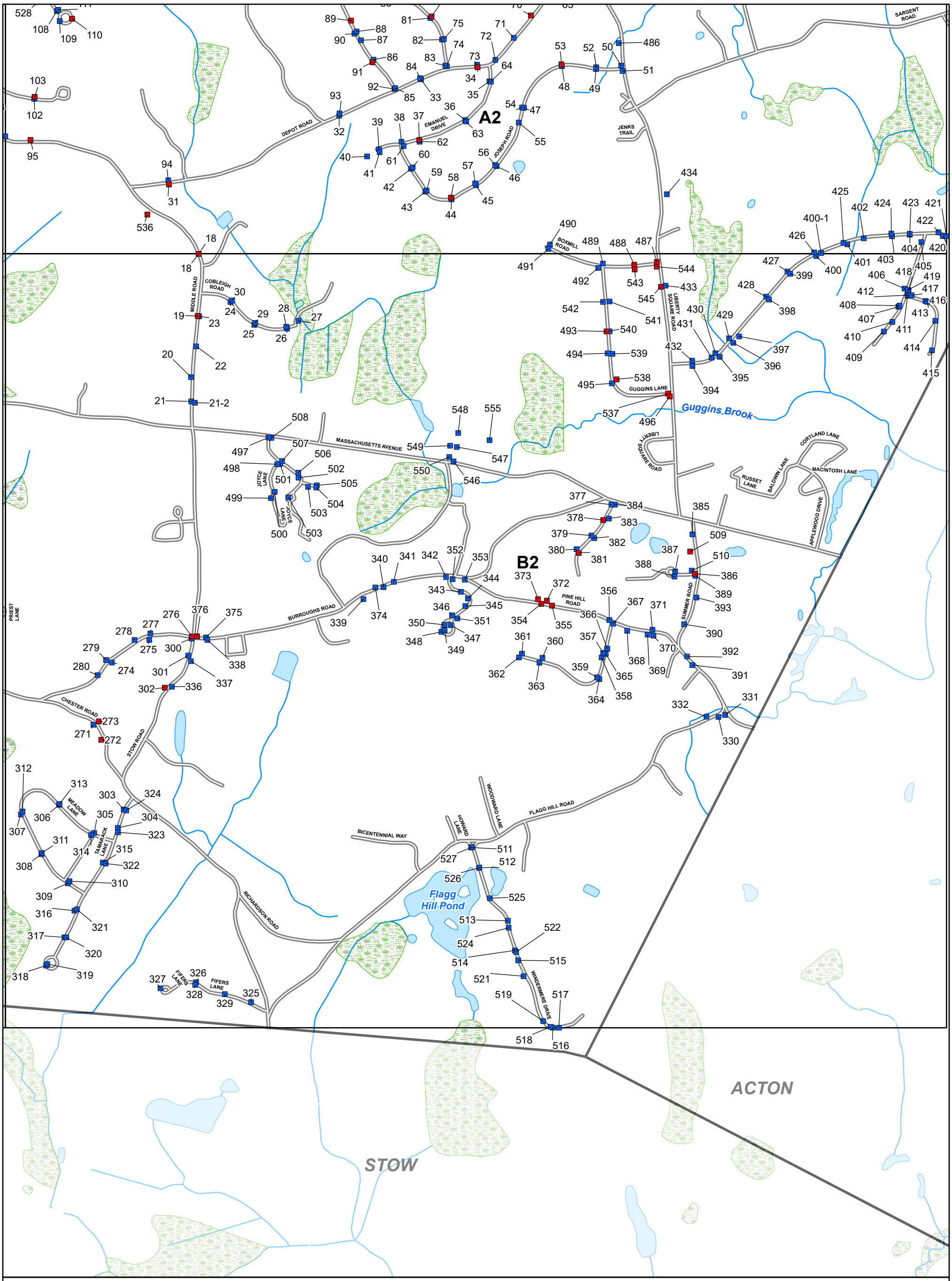
# Full Catch Basins in 2019 & 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021




## Legend

- Catch Basin >50% Full in 2019 & 2020
- Catch Basin <50% Full in 2019 & 2020
- Roads
- Lake, Pond, Reservoir
- Wetland, Marsh, Swamp
- Stream, Brook

N W E S

Sheet: B2

0 1,000 Feet

# Full Catch Basins in 2019 & 2020

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

9/13/2021

# Appendix D

## Catch Basin Inspection Results

## Boxborough Catch Basin Inspection Results 2019

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment |
| 1 | | Swanson Rd | 7/1/2019 | 1:15 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | |
| 2 | | Swanson Rd | 7/1/2019 | 1:19 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | |
| 3 | | Swanson Rd | 7/1/2019 | 1:30 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 4 | | Swanson Rd | 7/1/2019 | 1:44 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Rough cut into concrete |
| 5 | | Swanson Rd | 7/1/2019 | 1:51 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | Yes | No asphault or concrete on sidewalk side of grate |
| 6 | | Swanson Rd | 7/1/2019 | 1:56 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 7 | | Swanson Rd | 7/1/2019 | 2:03 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Some cracks in frame, not bad |
| 8 | | Swanson Rd | 7/1/2019 | 2:12 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Some broken bricks |
| 9 | | Swanson Rd | 7/1/2019 | 2:16 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 10 | | Swanson Rd | 7/1/2019 | 2:30 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | |
| 11 | | Swanson Rd | 7/1/2019 | 2:35 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Some missing bricks in chimney |
| 12 | | Swanson Rd | 7/1/2019 | 2:45 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Some morter damage but not bad |
| 13 | | Swanson Rd | 7/1/2019 | 2:50 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | Unknown | Totally full of dirt. May need reframe? |
| 14 | | Whitcomb | 7/1/2019 | 3:00 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 15 | | Hill St | 7/2/2019 | 7:30 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | |
| 16 | | Hill St | 7/2/2019 | 7:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | |
| 17 | | Middle Rd | 7/2/2019 | 7:57 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | Cracking on W side of CB wall |
| 18 | | Middle Rd | 7/3/2019 | 7:05 AM | Dry | Road/Curb | Asphalt | 24"x48" | Rectangular | | |
| 19 | | Middle Rd | 7/3/2019 | 7:08 AM | Dry | Road/Curb | Asphalt | 24"x48" | Rectangular | | |
| 20 | | Middle Rd | 7/3/2019 | 7:18 AM | Dry | Driveway | Gravel | 24"x24" | Sqaure | | |
| 21 | | Middle Rd | 7/3/2019 | 7:25 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | |
| 22 | | Middle Rd | 7/3/2019 | 7:31 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | |
| 23 | | Middle Rd | 7/3/2019 | 7:38 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 24 | | Cobleigh Rd | 7/3/2019 | 7:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | | |
| 25 | | Cobleigh Rd | 7/3/2019 | 7:45 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 26 | | Cobleigh Rd | 7/3/2019 | 7:49 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 27 | | Cobleigh Rd | 7/3/2019 | 7:56 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 28 | | Cobleigh Rd | 7/3/2019 | 7:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 29 | | Cobleigh Rd | 7/3/2019 | 8:03 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 30 | | Cobleigh Rd | 7/3/2019 | 8:06 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 31 | | Depot Rd | 7/3/2019 | 8:12 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 32 | | Depot Rd | 7/3/2019 | 8:18 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 33 | | Depot Rd | 7/3/2019 | 8:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 34 | | Depot Rd | 7/3/2019 | 8:30 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 35 | | Emanuel Dr | 7/3/2019 | 8:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 36 | | Emanuel Dr | 7/3/2019 | 8:40 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 37 | | Emanuel Dr | 7/3/2019 | 8:48 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 38 | | Emanuel Dr | 7/3/2019 | 8:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 39 | | Emanuel Dr | 7/3/2019 | 9:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 40 | | Emanuel Dr | 7/3/2019 | 9:03 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 41 | | Emanuel Dr | 7/3/2019 | 9:10 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 42 | | Joseph | 7/3/2019 | 9:14 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | May need to reframe |
| 43 | | Joseph | 7/3/2019 | 9:18 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 44 | | Joseph | 7/3/2019 | 9:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 45 | | Joseph | 7/3/2019 | 9:29 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 46 | | Joseph | 7/3/2019 | 9:36 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 47 | | Joseph | 7/3/2019 | 9:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 48 | | Joseph | 7/3/2019 | 9:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 49 | | Joseph | 7/3/2019 | 9:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 50 | | Liberty Square | 7/3/2019 | 9:55 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 51 | | Liberty Square | 7/3/2019 | 10:02 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 52 | | Joseph | 7/3/2019 | 10:07 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 53 | | Joseph | 7/3/2019 | 10:12 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 54 | | Joseph | 7/3/2019 | 10:17 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 55 | | Joseph | 7/3/2019 | 10:21 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 56 | | Joseph | 7/3/2019 | 10:26 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 57 | | Joseph | 7/3/2019 | 10:32 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 58 | | Joseph | 7/3/2019 | 10:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 59 | | Joseph | 7/3/2019 | 10:43 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 60 | | Joseph | 7/3/2019 | 10:49 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 61 | | Emanuel Dr | 7/3/2019 | 10:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 62 | | Emanuel Dr | 7/3/2019 | 10:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 63 | | Emanuel Dr | 7/3/2019 | 11:04 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 64 | | Emanuel Dr | 7/3/2019 | 11:09 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 65 | | Depot Rd | 7/3/2019 | 11:15 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 66 | | Depot Rd | 7/3/2019 | 11:22 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 67 | | Depot Rd | 7/3/2019 | 11:26 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 68 | | Depot Rd | 7/3/2019 | 11:32 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 69 | | Depot Rd | 7/3/2019 | 11:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 70 | | Depot Rd | 7/3/2019 | 11:43 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 71 | | Depot Rd | 7/3/2019 | 11:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 72 | | Depot Rd | 7/3/2019 | 11:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 73 | | Depot Rd | 7/3/2019 | 11:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 74 | | Patch Hill Rd | 7/3/2019 | 12:36 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 75 | | Patch Hill Rd | 7/3/2019 | 12:40 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 76 | | Patch Hill Rd | 7/3/2019 | 12:46 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 77 | | Patch Hill Rd | 7/3/2019 | 12:51 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 78 | | Patch Hill Rd | 7/3/2019 | 12:55 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 79 | | Patch Hill Rd | 7/3/2019 | 12:59 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 80 | | Patch Hill Rd | 7/3/2019 | 1:03 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 81 | | Patch Hill Rd | 7/3/2019 | 1:07 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 82 | | Patch Hill Rd | 7/3/2019 | 1:11 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 83 | | Patch Hill Rd | 7/3/2019 | 1:15 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 84 | | Depot Rd | 7/3/2019 | 1:19 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 85 | | Prescott Rd | 7/3/2019 | 1:23 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 86 | | Prescott Rd | 7/3/2019 | 1:29 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 87 | | Prescott Rd | 7/3/2019 | 1:39 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 88 | | Prescott Rd | 7/3/2019 | 1:37 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 89 | | Prescott Rd | 7/3/2019 | 1:42 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 90 | | Prescott Rd | 7/3/2019 | 1:46 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 91 | | Prescott Rd | 7/3/2019 | 1:51 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 92 | | Prescott Rd | 7/3/2019 | 1:56 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 93 | | Depot Rd | 7/3/2019 | 2:01 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 94 | | Depot Rd | 7/3/2019 | 2:07 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 95 | | Middle Rd | 7/3/2019 | 2:12 PM | Dry | Road/Curb | Asphalt | 24"x28" | Rectangular | No | |
| 96 | | Middle Rd | 7/3/2019 | 2:20 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 97 | | Middle Rd | 7/3/2019 | 2:24 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 98 | | Middle Rd | 7/3/2019 | 2:27 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 99 | | Picnic Rd | 7/9/2019 | 7:13 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 100 | | orchard + picnic | 7/9/2019 | 7:28 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 101 | | Picnic Rd | 7/9/2019 | 7:29 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 102 | | Old Orchard Rd | 7/9/2019 | 7:37 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 103 | | Old Orchard Rd | 7/9/2019 | 7:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 104 | | Avebury | 7/9/2019 | 7:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 105 | | Avebury Circle | 7/9/2019 | 7:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 106 | | Avebury | 7/9/2019 | 7:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 107 | | Avebury Circle | 7/9/2019 | 8:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 108 | | Avebury Circle | 7/9/2019 | 8:05 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 109 | | Avebury Circle | 7/9/2019 | 8:07 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 110 | | Avebury Circle | 7/9/2019 | 8:12 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 111 | | Avebury Circle | 7/9/2019 | 8:16 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 112 | | Avebury Circle | 7/9/2019 | 8:20 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 113 | | Avebury Circle | 7/9/2019 | 8:26 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 114 | | Avebury Circle | 7/9/2019 | 8:29 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 115 | | Avebury Circle | 7/9/2019 | 8:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 116 | | Avebury Circle | 7/9/2019 | 8:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 117 | | Avebury Circle | 7/9/2019 | 8:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 118 | | Picnic Rd | 7/9/2019 | 8:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 119 | | Hill Rd | 7/9/2019 | 9:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |
| 120 | | Hill Rd | 7/9/2019 | 9:07 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | |

| | Materials | | | | | | Conditions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump |
| 1 | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | |
| 2 | Cast Iron | Cast Iron | Concrete | | | | Good | Good | Good | | | |
| 3 | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | |
| 4 | Cast Iron | Cast Iron | Concrete | | | | Good | Good | Fair | | | |
| 5 | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Fair | Good | | |
| 6 | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | |
| 7 | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | |
| 8 | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Fair | Good | | |
| 9 | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Fair | Good | | |
| 10 | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Good | Good | | |
| 11 | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Fair | Good | | |
| 12 | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Good | Good | | |
| 13 | | | | | | | | | | | | |
| 14 | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | |
| 15 | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Good | Good | | |
| 16 | Cast Iron | Cast Iron | | | | | Good | Good | | | | |
| 17 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Fair | Fair | | Poor Fair |
| 18 | Concrete | Concrete | Concrete | Concrete | | Concrete | Fair | Fair | Fair | Fair | | |
| 19 | Concrete | Concrete | Concrete | Concrete | | Concrete | Fair | Fair | Fair | Fair | | |
| 20 | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | |
| 21 | Cast Iron | Cast Iron | Brick | Brick | | Plastic | Good | Good | Good | Good | | Good |
| 22 | Cast Iron | Cast Iron | Brick | Brick | | Aluminum | Good | Good | Good | Fair | | Fair |
| 23 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | |
| 24 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | | | | | | |
| 25 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Fair |
| 26 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 27 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 28 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 29 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 30 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 31 | Cast Iron | Cast Iron | Concrete | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 32 | | | | | | | | | | | | |
| 33 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Fair | | | Good |
| 34 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 35 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 36 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 37 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 38 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 39 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Excellent | Excellent | | Good |
| 40 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Excellent | Excellent | | Good |
| 41 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Excellent | Excellent | | Excellent |
| 42 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Fair | Good | | Good |
| 43 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 44 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 45 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 46 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 47 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 48 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 49 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 50 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Fair | Fair Good | | Good |
| 51 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 52 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good |
| 53 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 54 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 55 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Fair Good |
| 56 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Fair |
| 57 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Fair Good |
| 58 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 59 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 60 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 61 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 62 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 63 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 64 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 65 | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete Aluminum Or Some Metal (Iron?) | | Concrete | Good | Good | Good | Good But Patched | | Good |
| 66 | Cast Iron | Cast Iron | Brick | Brick | | Aluminum | Good | Good | Good | Good | | Good |
| 67 | Cast Iron | Cast Iron | Brick | Brick | | Aluminum | Good | Good | Good | Good | | Fair Good |
| 68 | Cast Iron | Cast Iron | Brick | Brick | | Concrete Aluminum | Good | Good | Good | Good | | Poor Fair, Damaged Bottom |
| 69 | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 70 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Fair Good | Good | | Fair Good |
| 71 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Fair |
| 72 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 73 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 74 | Cast Iron | Cast Iron | Concrete | Concrete | | Aluminum | Good | Good | Good | Good | | Good |
| 75 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 76 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 77 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 78 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 79 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 80 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 81 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 82 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 83 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 84 | Cast Iron | Cast Iron | Concrete | Concrete | | Aluminum | Good | Good | Good | Good | | Good |
| 85 | Cast Iron | Cast Iron | Brick | Brick | | Brick Aluminum | Good | Good | Fair Good | Fair Good | | Good Fair |
| 86 | Cast Iron | Cast Iron | Brick | Brick | | Brick Aluminum | Good | Good | Fair Good | Fair Good | | Good |
| 87 | Cast Iron | Cast Iron | Brick | Brick | | Brick Aluminum | Good | Good | Fair Good | Fair Good | | Good |
| 88 | Cast Iron | Cast Iron | Brick | Brick | | Concrete Aluminum | Good | Good | Fair Good | Fair Good | | Good |
| 89 | Cast Iron | Cast Iron | Brick | Brick | | Brick Aluminum | Good | Good | Fair Good | Fair Good | | Fair Good |
| 90 | Cast Iron | Cast Iron | Birck | Brick | | Concrete Aluminum | Good | Good | Good | Good | | Good |
| 91 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 92 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Fair Good | | Good |
| 93 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Fair Good | | Good |
| 94 | Cast Iron | Cast Iron | Brick | Brick | | Fiberglass | Good | Good | Good | Fair Good | | Good |
| 95 | Concrete | Concrete | Concrete | Concrete | | Concrete | Fair Good | Fair Good | Fair Good | Fair Good | | Good |
| 96 | Concrete | Concrete | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 97 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete Aluminum | Good | Good | Good | Good | | Good |
| 98 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete Aluminum | Good | Good | Good | Good | | Good |
| 99 | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Good | Good | | |
| 100 | Cast Iron | Cast Iron | Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Fair |
| 101 | Cast Iron | Cast Iron | Birck | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 102 | Cast Iron | Cast Iron | Brick | Brick | | Concrete | Good | Good | Good | Good | | Good |
| 103 | Cast Iron | Cast Iron | Brick | Concrete | | Cast Iron | Good | Good | Good | Good | | Fair |
| 104 | Cast Iron | Cast Iron | Brick | Concrete | | Cast Iron | Good | Good | Good | Good | | Good |
| 105 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 106 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Excellent | Excellent | | Good |
| 107 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 108 | Cast Iron | Cast Iron | | | | | Good | Good | | | | |
| 109 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 110 | Cast Iron | Cast Iron | Concrete | Concrete Aluminum | | Concrete | Good | Good | Good | Good | | Good |
| 111 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 112 | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 113 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 114 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 115 | Cast Iron | Cast Iron | Concrete | Brick Concrete | | | Good | Good | Good | Fair | | |
| 116 | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good |
| 117 | Cast Iron | Cast Iron | Brick | Concrete | | Fiberglass | Good | Good | Good | Good | | Good |
| 118 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete Aluminum | Good | Good | Good | Good | | Fair Good |
| 119 | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | |
| 120 | Cast Iron | Cast Iron | Brick | Brick Concrete | | | Good | Good | Good | Good | | |

| | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 1 | Yes | 65 | 85 | 40 from rim, 45 total | 20 | 50% | 50% | No | | | Biomatter (leaves), Sanitary Waste / Smell |
| 2 | Yes | 50 | 63 | Unknown (too much water) 18 to top of what could be sump | 13 | Yes | Unknown | No | | | Floatables / Trash, Excessive Trash |
| 3 | Yes | 30 | 49 | Water too high | 19 | | | No | | | Floatables Trash, Oil Sheen |
| 4 | Yes | 52 | 73 | Water too deep | 21 | | | No | | | Sanitary Waste / Smell |
| 5 | Yes | 49 | 67 | 34 | 18 | No | | No | | | Sanitary Waste / Smell |
| 6 | Yes | 57 | 73 | 45 | 24 | Yes | 53% | No | | | Floatables / Trash |
| 7 | Yes | 47 | 71 | 34 | 24 | Yes | 71% | No | | | Rotten Biomatter, Sanitary Waste /Smell |
| 8 | Yes | 52 | 71 | 34 | 19 | No | | No | | | Floatables / Trash |
| 9 | Yes | 71 | 87 | 40 | 16 | No | | No | | | Floatables / Trash from pine trees? |
| 10 | Yes | 63 | 77 | 40 | 14 | No | | No | | | |
| 11 | Yes | 68 | 81 | 19 | 13 | Yes | 68% | No | | | |
| 12 | Yes | 70 | 86 | 31 | 16 | Yes | 52% | No | | | Floatables / Trash |
| 13 | Yes | 13 | | | | Yes | | | | | No water, excessive sediment. See photos. |
| 14 | Yes | 67 | 75 | 43 | 8 | No | | No | | | |
| 15 | Yes | 57 | 79 | 25 | 22 | Yes | 88% | No | | | |
| 16 | Yes | | | | | Yes | | | | | Excessive Sediment |
| 17 | Yes | 43 | 60 | 21 | 17 | Yes | 81% | No | | | Oil Sheen, Sanitary Waste / Smell |
| 18 | Yes | 8 | 17 | 17 | 9 | Yes | 53% | No | | | Excessive Sediment, very shallow |
| 19 | Yes | 27 | 41 | 16 | 14 | Yes | 88% | No | | | Sanitary Waste / Smell |
| 20 | Yes | 52 | 57 | 27 | 5 | No | | No | | | Oil Sheen |
| 21 | Yes | 60 | 66 | 27 | 6 | No | | No | | | Oil Sheen, Sanitary Waste / Smell |
| 22 | Yes | 63 | 76 | 49 | 19 | No | | No | | | Excessive Sediment |
| 23 | Yes | 61 | 69 | 24 | 8 | No | | No | | | Excessive Sediment |
| 24 | Yes | 61 | 72 | 24 | 13 | Yes | 54% | No | | | Sanitary Waste / Smell |
| 25 | Yes | 65 | 68 | 43 | 3 | No | | No | | | |
| 26 | Yes | 60 | 68 | 24 | 8 | No | | No | | | Excessive Sediment |
| 27 | Yes | 60 | 68 | 28 | 8 | No | | No | | | Oil Sheen |
| 28 | Yes | 59 | 66 | 26 | 7 | No | | No | | | Oil Sheen |
| 29 | Yes | 57 | 65 | 20 | 8 | No | | No | | | |
| 30 | Yes | 61 | 67 | 23 | 6 | No | | No | | | |
| 31 | Yes | 50 | 61 | 20 | 11 | Yes | 55% | No | | | Oil sheen |
| 32 | Yes | 71 | 77 | 35 | 6 | No | | No | | | |
| 33 | Yes | 60 | 71 | 31 | 21 | Yes | 68% | No | | | |
| 34 | Yes | 62 | 89 | 32 | 27 | Yes | 84% | No | | | Sanitary Waste / Smell (Could be organics) |
| 35 | Yes | 66 | 79 | 34 | 13 | No | | Possible | | | W of grate, white PVC pipe feed from that direction. Potential source: house |
| 36 | Yes | 60 | 77 | 34 | 17 | 50% | 50% | | | | File Error. No record of 36 is saved this is an approximation based on CB 63 as it is directly across from 36 and is a best approximation for the missing data. |
| 37 | Yes | 57 | 65 | 10 | 8 | Yes | 80% | No | | | |
| 38 | Yes | 63 | 80 | 26 | 27 | Yes | FULL | Possible | | | White PVC pipes from houses N of grate |
| 39 | Yes | 101 | 109 | 49 | 8 | No | | No | | | Oil Sheen, Sanitary Waste / Smell |
| 40 | Yes | 88 | 97 | 49 | 9 | No | | No | | | |
| 41 | Yes | 112 | 115 | 50 | 3 | No | | No | | | Oil sheen |
| 42 | No | 54 | | | | | | No | | | Could not get bucket in to clean |
| 43 | Yes | 57 | 71 | 30 | 14 | No | | Possible | | | Yellow white foam, sanitary waste / smell, floatables / trash |
| 44 | Yes | 55 | 65 | 27 | 10 | No | | No | | | |
| 45 | Yes | 61 | 72 | 32 | 11 | No | | No | | | |
| 46 | Yes | 66 | 72 | 36 | 6 | No | | No | | | |
| 47 | Yes | 100 | 106 | 35 | 6 | No | | No | | | |
| 48 | Yes | 69 | 78 | 34 | 9 | | | No | | | |
| 49 | Yes | 106 | 113 | 58 | 7 | No | | No | | | |
| 50 | Yes | 60 | 78 | 34 | 18 | | | No | | | Sanitary Waste / Smell , Floatables / Trash |
| 51 | Yes | 59 | 74 | 32 | 15 | No | | No | | | Oil Sheen, Sanitary Waste / Smell |
| 52 | Yes | 71 | 81 | 25 | 10 | No | | No | | | Sanitary Waste / Smell |
| 53 | Yes | 51 | 69 | 25 | 18 | Yes | 72% | No | | | Sanitary Waste / Smell |
| 54 | Yes | 100 | 105 | 26 | 5 | No | | No | | | |
| 55 | Yes | 81 | 90 | 39 | 9 | No | | No | | | Sanitary Waste / Smell |
| 56 | Yes | 60 | 72 | 37 | 8 | No | | No | | | |
| 57 | Yes | 51 | 64 | 27 | 13 | | | No | | | Sanitary Waste / Smell |
| 58 | Yes | 49 | 68 | 30 | 19 | Yes | 63% | No | | | |
| 59 | Yes | 50 | 69 | | | | | No | | | Oil Sheen, Excessive Sediment |
| 60 | Yes | 60 | 67 | 19 | 7 | | | No | | | Oil Sheen, Excessive Sediment |
| 61 | Yes | 68 | 79 | 26 | 11 | No | | No | | | |
| 62 | Yes | 72 | 86 | 30 | 14 | No | | No | | | Oil Sheen |
| 63 | Yes | 60 | 77 | 34 | 17 | 50% | 50% | No | | | |
| 64 | Yes | 48 | 55 | 11 | 7 | Yes | 64% | No | | | |
| 65 | Yes | 41 | 56 | 19 | 15 | Yes | 79% | No | | | |
| 66 | Yes | 72 | 79 | 12 | 7 | Yes | 58% | No | | | Excessive Sediment, No Water |
| 67 | Yes | 77 | 79 | 26 | 2 | No | | No | | | |
| 68 | Yes | 65 | 70 | 15 | 5 | No | | No | | | Excessive Sediment |
| 69 | Yes | 49 | 64 | 21 | 15 | Yes | 71% | No | | | |
| 70 | Yes | 54 | 63 | 17 | 9 | Yes | 53% | No | | | Oil Sheen, Excessive Sediment |
| 71 | Yes | 57 | 59 | 16 | 2 | No | | No | | | Excessive Sediment, Floatables / Trash |
| 72 | Yes | 56 | 71 | 19 | 15 | Yes | 79% | No | | | Excessive Sediment, Floatables / Trash |
| 73 | Yes | 70 | 81 | 29 | 11 | No | | No | | | |
| 74 | Yes | 73 | 83 | 22 | 10 | No | | No | | | |
| 75 | Yes | 66 | 78 | 26 | 12 | No | | No | | | |
| 76 | Yes | 76 | 87 | 13 | 11 | Yes | 85% | No | | | Excessive Sediment |
| 77 | Yes | 75 | 88 | 22 | 13 | Yes | 59% | No | | | Floatables / Trash |
| 78 | Yes | 75 | 83 | 19 | 8 | No | | No | | | Oil Sheen |
| 79 | Yes | 84 | 90 | 27 | 6 | No | | No | | | Oil Sheen "Lite" |
| 80 | Yes | 75 | 90 | 28 | 15 | No | | No | | | |
| 81 | Yes | 77 | 87 | 24 | 10 | No | | No | | | Oil Sheen |
| 82 | Yes | 68 | 78 | 22 | 10 | No | | No | | | |
| 83 | Yes | 72 | 78 | 24 | 6 | No | | No | | | |
| 84 | Yes | 59 | 66 | 28 | 7 | No | | No | | | |
| 85 | Yes | 55 | 73 | 23 | 18 | Yes | 78% | No | | | No Water In This One |
| 86 | Yes | 56 | 67 | 19 | 11 | Yes | 58% | No | | | Excessive Sediment, No Water In This One |
| 87 | Yes | 42 | 43 | 4 | 1 | No | | No | | | Excessive Sediment, No Water In This One |
| 88 | Yes | 50 | 61 | 22 | 11 | 50% | 50% | No | | | Excessive Sediment, No Water In This One |
| 89 | Yes | 45 | 49 | 6 | 4 | Yes | 67% | No | | | Excessive Sediment, No Water In This One |
| 90 | Yes | 52 | 72 | 25 | 20 | Yes | 80% | No | | | Excessive Sediment, No Water In This One |
| 91 | Yes | 49 | 62 | 19 | 13 | Yes | 68% | No | | | Excessive Sediment, Floatables / Trash |
| 92 | Yes | 53 | 57 | 25 | 4 | No | | No | | | Excessive Sediment, No Water In This One |
| 93 | Yes | 72 | 86 | 59 | 14 | No | | Possible | | | 2 Black Pipes, Could Be Rain Water Though |
| 94 | Yes | 50 | 57 | 22 | 7 | No | | No | | | |
| 95 | Yes | 40 | 60 | 32 | 20 | Yes | 63% | No | | | Dry |
| 96 | Yes | 56 | 64 | 25 | 8 | No | | No | | | |
| 97 | Yes | 59 | 60 | 8 | 1 | No | | No | | | |
| 98 | Yes | 59 | 74 | 22 | 15 | No | | No | | | |
| 99 | Yes | 41 | 53 | 45 | 12 | No | | No | | | Sanitary Waste / Smell, Excessive Sediment |
| 100 | Yes | 70 | 88 | 23 | 18 | Yes | 78% | No | | | Sanitary Waste / Smell |
| 101 | Yes | 68 | 82 | 24 | 14 | Yes | 58% | No | | | Excessive Sediment |
| 102 | Yes | 75 | 89 | 22 | 14 | Yes | 64% | No | | | |
| 103 | Yes | 48 | 58 | 16 | 10 | Yes | 63% | No | | | |
| 104 | Yes | 74 | 78 | 21 | 4 | No | | No | | | |
| 105 | Yes | 71 | 83 | 22 | 12 | Yes | 55% | No | | | Oil Sheen |
| 106 | Yes | 64 | 76 | 22 | 12 | Yes | 55% | No | | | |
| 107 | Yes | 74 | 82 | 35 | 8 | No | | No | | | |
| 108 | No | | | | | | | No | | | Could Not Access Due To Dumpster On Grate |
| 109 | Yes | 75 | 77 | 23 | 2 | No | | No | | | |
| 110 | Yes | 64 | 79 | 27 | 15 | Yes | 56% | Possible | | | PVC Pipe 52" From Rim Appears To Be Coming From House #120 |
| 111 | Yes | 67 | 69 | 20 | 2 | No | | No | | | Oil Sheen |
| 112 | Yes | 68 | 72 | 21 | 4 | No | | No | | | Oil Sheen |
| 113 | Yes | 61 | 67 | 15 | 6 | No | | No | | | Oil Sheen |
| 114 | Yes | 61 | 72 | 20 | 11 | Yes | 55% | No | | | Oil Sheen |
| 115 | Yes | 75 | 79 | N/A | 4 | N/A | | | | | Excessive Sediment |
| 116 | Yes | 75 | 91 | 31 | 24 | Yes | 71% | No | | | Excessive Sediment |
| 117 | Yes | 66 | 70 | 25 | 4 | No | | | | | |
| 118 | Yes | 75 | 82 | 21 | 7 | No | | | | | Multiple Sumps |
| 119 | Yes | 59 | 76 | N/A | 17 | N/A | | | | | Missing Intake |
| 120 | Yes | 41 | 58 | | 17 | | | No | | | Fermentation Smell |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 121 | | Tokatawan Spring | 7/9/2019 | 9:13 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Brick Concrete | | | Good | Good | Good | Good | | | Yes | 74 | 76 | | 2 | | | No | | | Oil Sheen, Floatables / Trash, Black Drain Pipe |
| 122 | | Tokatawan Spring | 7/9/2019 | 9:19 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Brick Concrete | | | Good | Good | Poor Fair | Good | | | Yes | 57 | 62 | N/A | 5 | | | Possible | | | Sanitary Waste / Smell, Black Drainage Pipe |
| 123 | | Tokatawan Spring | 7/9/2019 | 9:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Good | Concrete | | | Good | Good | | Good | | | Yes | 64 | 71 | 26 | 7 | No | | No | | | Black Pipe Vertical |
| 124 | | Tokatawan Spring | 7/9/2019 | 9:28 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | PVC | Good | Good | Fair Good | Good | | Good | Yes | 61 | 74 | 29 | 13 | No | | No | | | Black Pipe Vertical |
| 125 | | Tokatawan Spring | 7/9/2019 | 9:32 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | PVC | Good | Good | Fair Good | Good | | Good | Yes | 51 | 65 | 23 | 14 | Yes | 61% | No | | | |
| 126 | | Tokatawan Spring | 7/9/2019 | 9:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 54 | 64 | 21 | 10 | No | | No | | | |
| 127 | | Tokatawan Spring | 7/9/2019 | 9:43 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Good | Good | | | Yes | 53 | 62 | | 11 | | | No | | | |
| 128 | | Tokatawan Spring | 7/9/2019 | 9:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 56 | 63 | 23 | 7 | No | | No | | | Oil Sheen |
| 129 | | Tokatawan Spring | 7/9/2019 | 9:51 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | Good | Good | | | Yes | 76 | 80 | | 16 | | | Possible | | | Black Drainage Pipe Horizontal |
| 130 | | Tokatawan Spring | 7/9/2019 | 9:55 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 51 | 60 | 17 | 9 | Yes | 53% | No | | | |
| 131 | | Hill Rd | 7/9/2019 | 10:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | | Good | Good | Fair | Good | | | Yes | 42 | 56 | | 14 | | | | | | Newly Paved Road, Asphalt In CB. No Visible Sump |
| 132 | | Hill Rd | 7/9/2019 | 10:06 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | | Good | Good | Good | Good | | | Yes | 51 | 71 | | 20 | | | | | | No Visible Sump |
| 133 | | Hill Rd | 7/9/2019 | 10:12 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 43 | 59 | 18 | 16 | Yes | 89% | Possible | | | Black Drainage Pipe At 41". Oil Sheen |
| 134 | | Hill Rd | 7/9/2019 | 10:17 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 53 | 68 | 27 | 15 | Yes | 56% | | | | Excessive Sediment |
| 135 | | Hill Rd | 7/9/2019 | 10:22 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Aluminium | Good | Good | Good | Good | | Good | Yes | 54 | 63 | 21 | 11 | No | | | | | |
| 136 | | Hill Rd | 7/9/2019 | 10:27 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 46 | 63 | 23 | 17 | Yes | 74% | | | | Asphalt In CB From Paving |
| 137 | | Hill Rd | 7/9/2019 | 10:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Aluminum | Good | Good | Good | Good | | Good | Yes | 44 | 58 | 21 | 14 | Yes | 67% | | | | |
| 138 | | School House Ln | 7/9/2019 | 10:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 62 | 79 | 30 | 17 | Yes | 57% | | | | Floatables / Trash |
| 139 | | School House Ln | 7/9/2019 | 11:02 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 66 | 71 | 19 | 5 | No | | | | | |
| 140 | | School House Ln | 7/9/2019 | 11:06 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 52 | 73 | 28 | 21 | Yes | 75% | | | | |
| 141 | | School House Ln | 7/9/2019 | 11:12 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 43 | 54 | 7 | 11 | Yes | FULL | No | | | Excessive Sediment |
| 142 | | School House Ln | 7/9/2019 | 11:18 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 47 | 66 | 26 | 19 | Yes | 73% | Possible | | | White PVC Pipe At 38" |
| 143 | | School House Ln | 7/9/2019 | 11:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | | | | | Yes | 66 | 73 | 31 | 7 | No | | | | | |
| 144 | | School House Ln | 7/9/2019 | 11:25 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 58 | 64 | 6 | 4 | Yes | 67% | | | | |
| 145 | | School House Ln | 7/9/2019 | 11:31 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Fair Good | | | Good | Yes | 50 | 63 | 23 | 13 | Yes | 57% | No | | | Oil Sheen |
| 146 | | School House Ln | 7/9/2019 | 11:37 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 63 | 78 | 25 | 15 | Yes | 60% | No | | | Sanitary Waste / Smell |
| 147 | | School House Ln | 7/9/2019 | 11:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 48 | 88 | 30 | 40 | Yes | FULL | | | | |
| 148 | | Hill Rd | 7/9/2019 | | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 74 | 81 | 17 | 7 | No | | | | | |
| 149 | | Barteau | 7/9/2019 | 12:24 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Fair | Yes | 69 | 82 | 26 | 13 | 50% | 50% | No | | | Oil Sheen |
| 150 | | Barteau | 7/9/2019 | 12:28 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 79 | 89 | 40 | 10 | No | | | | | |
| 151 | | Barteau | 7/9/2019 | 12:33 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 54 | 76 | | 22 | | | Possible | | | No Sump Visible. Cast Iron Pipe Bent From CB Through Wall (Leading Downward) |
| 152 | | Barteau | 7/9/2019 | 12:37 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 81 | 92 | 44 | 11 | No | | No | | | Oil Sheen |
| 153 | | Barteau | 7/9/2019 | 12:40 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 81 | 85 | 32 | 4 | No | | No | | | Oil Sheen, Floatables / Trash |
| 154 | | Whitcomb East | 7/9/2019 | 12:48 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 56 | 71 | 19 | 15 | Yes | 79% | | | | |
| 155 | | Swanson Rd | 7/9/2019 | 1:07 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 61 | 71 | 26 | 10 | No | | | | | |
| 156 | | Swanson Rd | 7/9/2019 | 1:13 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 53 | 71 | 26 | 18 | Yes | 69% | No | | | Oil Sheen |
| 157 | | Swanson Rd | 7/9/2019 | 1:19 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 71 | 73 | 31 | 2 | No | | | | | |
| 158 | | Swanson Rd | 7/9/2019 | 1:23 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 64 | 71 | 21 | 7 | No | | | | | |
| 159 | | Swanson Rd | 7/9/2019 | 1:28 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 59 | 67 | 22 | 8 | No | | No | | | Oil Sheen |
| 160 | | Codman Hill Rd | 7/9/2019 | 1:35 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 50 | 57 | | 7 | | | | | | Water Too Deep, Sump Not Visible |
| 161 | | Codman Hill Rd | 7/9/2019 | 1:43 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 62 | 68 | 33 | 4 | No | | | | | |
| 162 | | Codman Hill Rd | 7/9/2019 | 1:47 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | | | | | Yes | 29 | 52 | 21 | 23 | Yes | FULL | | | | Excessive Sediment |
| 163 | | Codman Hill Rd | 7/9/2019 | 1:59 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Fair Good | Good | | Good | Yes | 55 | 65 | 17 | 10 | Yes | 59% | | | | Oil Sheen, Floatables / Trash, Oil/Gas Smell |
| 164 | | Old Harvard Rd | 7/9/2019 | 2:28 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Brick Concrete | | Aluminum | Good | Good | Fair | Good | | Good | Yes | 44 | 62 | 22 | 18 | Yes | 82% | | | | Excessive Sediment |
| 165 | | Old Harvard Rd | 7/9/2019 | 2:33 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick | Brick Concrete | | Aluminum | Good | Good | Fair | Good | | Fair | Yes | 56 | 63 | 38 | 7 | No | | | | | Excessive Sediment |
| 166 | | not applicable - no record taken | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | Robinson Rd | 7/10/2019 | 6:10 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 59 | 69 | 28 | 10 | No | | | | | |
| 168 | | Robinson Rd | 7/10/2019 | 6:15 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Fair | Good | | Good | Yes | 66 | 72 | 29 | 6 | No | | No | | | Gasoline Smell |
| 169 | | Robinson Rd | 7/10/2019 | 6:21 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 58 | 67 | 16 | 9 | Yes | 56% | | | | |
| 170 | | Robinson Rd | 7/10/2019 | 6:28 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 84 | 94 | 20 | 10 | 50% | 50% | | | | |
| 171 | | Robinson Rd | 7/10/2019 | 6:32 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 69 | 73 | 11 | 4 | No | | Possible | | | PVC Pipe @ 46" |
| 172 | | Robinson Rd | 7/10/2019 | 6:40 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 58 | 66 | 22 | 8 | No | | | | | |
| 173 | | Robinson Rd | 7/10/2019 | 6:45 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 72 | 79 | 15 | 7 | No | | | | | |
| 174 | | Robinson Rd | 7/10/2019 | 6:51 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 64 | 73 | 23 | 9 | No | | | | | |
| 175 | | Robinson Rd | 7/10/2019 | 6:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 69 | 77 | 20 | 8 | No | | Possible | | | PVC Pipe @ 57" |
| 176 | | Robinson Rd | 7/10/2019 | 6:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 64 | 68 | 14 | 4 | No | | Possible | | | PVC Pipe @ 50" |
| 177 | | Robinson Rd | 7/10/2019 | 7:03 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 73 | 82 | 24 | 9 | No | | | | | |
| 178 | | Robinson Rd | 7/10/2019 | 7:08 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 71 | 78 | 26 | 7 | No | | Possible | | | Sanitary Waste / Smell, PVC Pipe @ 45", Fiberglass Pipe At 52" |
| 179 | | Robinson Rd | 7/10/2019 | 7:14 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 52 | 58 | 10 | 6 | Yes | 60% | | | | |
| 180 | | Robinson Rd | 7/10/2019 | 7:19 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Poor Fair | Good | | Good | Yes | 66 | 72 | 21 | 6 | No | | | | | |
| 181 | | Robinson Rd | 7/10/2019 | 7:24 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 70 | 77 | 23 | 7 | No | | Possible | | | Sanitary Waste / Smell, Two Fiberglass Pipes At 49" |
| 182 | | Robinson Rd | 7/10/2019 | 7:28 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 74 | 77 | 22 | 3 | No | | | | | |
| 183 | | Robinson Rd, corner of Old Harvard Rd | 7/10/2019 | 7:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Fair | Good | | Good | Yes | 55 | 65 | 15 | 10 | Yes | 67% | | | | |
| 184 | | Robinson Rd, corner of Old Harvard Rd | 7/10/2019 | 7:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 55 | 66 | 18 | 11 | Yes | 61% | | | | |
| 185 | | Robinson Rd | 7/10/2019 | 7:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 66 | 75 | 24 | 9 | No | | | | | Another Concrete Pipe At 45" |
| 186 | | Robinson Rd | 7/10/2019 | 7:51 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Poor | Good | | Good | Yes | 71 | 77 | 24 | 6 | No | | Possible | | | Fiberglass Pipe At 46" |
| 187 | | Steele Ln | 7/10/2019 | 7:55 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Poor Fair | | | | Yes | 68 | 74 | 20 | 6 | No | | | | | |
| 188 | | Steele Ln | 7/10/2019 | 8:01 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 60 | 65 | 20 | 5 | No | | No | | | Oil Sheen |
| 189 | | Steele Ln | 7/10/2019 | 8:06 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 66 | 70 | | 4 | | | No | | | No Visible Sump. Oil Sheen |
| 190 | | Steele Ln | 7/10/2019 | 8:10 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Poor Fair | Good | | Good | Yes | 63 | 70 | 22 | 7 | No | | | | | |
| 191 | | Steele Ln | 7/10/2019 | 8:14 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 60 | 65 | 21 | 5 | No | | | | | |
| 192 | | Steele Ln | 7/10/2019 | 8:18 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 63 | 73 | 23 | 10 | No | | No | | | Oil Sheen |
| 193 | | Steele Ln | 7/10/2019 | 8:22 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 63 | 71 | 8 | 8 | | | | | | No Visible Sump |
| 194 | | Steele Ln | 7/10/2019 | 8:25 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 58 | 66 | 18 | 8 | No | | No | | | Oil Sheen |
| 195 | | Steele Ln | 7/10/2019 | 8:33 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Aluminum | Good | Good | Good | Good | | Good | Yes | 62 | 70 | 27 | 8 | No | | No | | | Oil Sheen |
| 196 | | Robinson Rd | 7/10/2019 | 8:37 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Fair Good | Good | | Good | Yes | 68 | 72 | 24 | 4 | No | | | | | |
| 197 | | Robinson Rd | 7/10/2019 | 8:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 83 | 87 | 22 | 4 | No | | | | | |
| 198 | | Robinson Rd | 7/10/2019 | 8:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Excellent | | Good | Yes | 71 | 74 | 26 | 3 | No | | Possible | | | PVC Pipe At 30" |
| 199 | | Houghton Ln | 7/10/2019 | 8:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 75 | 86 | 26 | 11 | No | | Possible | | | 53" Black Drainage Pipe |
| 200 | | Houghton Ln | 7/10/2019 | 9:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good Excellent | Good | | Good | Yes | 84 | 94 | 39 | 10 | No | | | | | |
| 201 | | Houghton Ln | 7/10/2019 | 9:08 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 67 | 82 | 37 | 15 | No | | | | | |
| 202 | | Houghton Ln | 7/10/2019 | 9:14 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 65 | 78 | 38 | 13 | No | | No | | | Oil Sheen, Floatables / Trash |
| 203 | | Houghton Ln | 7/10/2019 | 9:20 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good Excellent | Excellent | | Good Excellent | Yes | 79 | 83 | 23 | 4 | No | | | | | Excessive Sediment |
| 204 | | Houghton Ln | 7/10/2019 | 9:25 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good Excellent | Good | | Good Excellent | Yes | 70 | 81 | 40 | 11 | No | | No | | | Sanitary Waste / Smell, Floatables / Trash |
| 205 | | Houghton Ln | 7/10/2019 | 9:33 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 72 | 77 | 28 | 5 | No | | | | | Floatables / Trash |
| 206 | | Houghton Ln | 7/10/2019 | 9:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 83 | 92 | 39 | 9 | No | | | | | |
| 207 | | Houghton Ln | 7/10/2019 | 9:46 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 72 | 92 | 42 | 20 | No | | | | | |
| 208 | | Robinson Rd | 7/10/2019 | 9:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 63 | 67 | 7 | 4 | Yes | 57% | | | | |
| 209 | | Robinson Rd | 7/10/2019 | 9:59 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Excellent | | Good | Yes | 74 | 81 | 27 | 7 | No | | Possible | | | 3 PVC Pipes @ 52" |
| 210 | | Robinson Rd | 7/10/2019 | 10:04 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 70 | 95 | | 5 | | | | | | No Visible Sump |
| 211 | | Robinson Rd | 7/10/2019 | 10:07 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Good | Good | | Good | Yes | 73 | 81 | 37 | 8 | No | | No | | | Oil Sheen |
| 212 | | Morse Ln | 7/10/2019 | 10:11 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | | | | Cast Iron | Good | Good | | | | Concrete | Yes | 89 | 93 | 16 | 4 | No | | | | | Two Sumps @ 77" |
| 213 | | Morse Ln | 7/10/2019 | 10:16 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Fair Good | Good | | Good | Yes | 71 | 77 | 15 | 6 | No | | No | | | Oil Sheen |
| 214 | | Morse Ln | 7/10/2019 | 10:22 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Fair Good | Yes | 69 | 77 | 20 | 8 | No | | | | | |
| 215 | | Morse Ln | 7/10/2019 | 10:31 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 74 | 80 | 8 | 3 | No | | | | | |
| 216 | | Morse Ln | 7/10/2019 | 10:46 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 70 | 76 | 20 | 6 | No | | No | | | |
| 217 | | Morse Ln | 7/10/2019 | 10:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 73 | 80 | | 7 | | | | | | No Visible Sump |
| 218 | | Morse Ln | 7/10/2019 | 11:05 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 64 | 70 | | | | | No | | | Sanitary Waste / Smell, Floatables / Trash (Looks Like It Could Possibly Be Pet Waste, Multiple Tied Trash Bags) |
| 219 | | Robinson Rd | 7/10/2019 | 11:13 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 73 | 80 | | 7 | | | No | | | Floatables / Trash. No Visible Sump. |
| 220 | | Hager Ln | 7/10/2019 | 11:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 62 | 67 | 15 | 5 | No | | No | | | Oil Sheen. |
| 221 | | Hager Ln | 7/10/2019 | 11:46 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 63 | 67 | | 6 | | | No | | | No Visible Sump |
| 222 | | Hager Ln | 7/10/2019 | 11:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Fiberglass | Good | Good | Fair Good | Good | | Good | Yes | 65 | 70 | 32 | 5 | No | | No | | | |
| 223 | | Hager Ln | 7/10/2019 | 11:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 63 | 70 | | 7 | | | No | | | No Visible Sump |
| 224 | | Hager Ln | 7/10/2019 | 11:59 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Aluminum | Good | Good | Fair Good | Good | | Good | Yes | 59 | 65 | 18 | 6 | No | | Possible | | | PVC Pipe @ 38" |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | Other Comments: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | |
| 225 | | Hager Ln | 7/10/2019 | 12:10 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 65 | 69 | 20 | 4 | No | | No | | | Oil Sheen |
| 226 | | Hager Ln | 7/10/2019 | 12:15 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 60 | 65 | 14 | 5 | No | | No | | | Sanitary Waste / Smell |
| 227 | | Hager Ln | 7/10/2019 | 12:19 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 97 | 103 | 23 | 6 | No | | Possible | | | 4 PVC Pipes @ 49" |
| 228 | | Hager Ln | 7/11/2019 | 6:17 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 99 | 107 | 16 | 8 | 50% | 50% | No | | | Sanitary Waste / Smell |
| 229 | | Hager Ln | 7/11/2019 | 6:19 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 62 | 71 | 19 | 9 | No | | No | | | Sanitary Waste / Smell |
| 230 | | Robinson Rd | 7/11/2019 | 6:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 71 | 76 | 20 | 5 | No | | No | | | |
| 231 | | Robinson Rd | 7/11/2019 | 6:26 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 67 | 71 | 16 | 4 | No | | No | | | |
| 232 | | Robinson Rd | 7/11/2019 | 6:30 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 66 | 71 | 15 | 5 | No | | No | | | |
| 233 | | Robinson Rd | 7/11/2019 | 6:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | PVC | Good | Good | Good | Good | | Good | Yes | 64 | 71 | 32 | 7 | No | | Possible | | | PVC Pipe At 39" |
| 234 | | Robinson Rd | 7/11/2019 | 6:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 61 | 70 | | 9 | | | | | | No Visible Sump. Oil Sheen |
| 235 | | Robinson Rd | 7/11/2019 | 6:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 65 | 73 | 19 | 8 | No | | Possible | | | PVC Pipe Lodged With Concrete Rock @ 45" |
| 236 | | Robinson Rd | 7/11/2019 | 6:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 66 | 74 | 20 | 8 | No | | No | | | Sanitary Waste / Smell |
| 237 | | Robinson Rd | 7/11/2019 | 6:51 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 63 | 71 | 15 | 8 | Yes | 53% | No | | | |
| 238 | | Mayfair Dr | 7/11/2019 | 6:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 75 | 85 | 34 | 10 | No | | No | | | |
| 239 | | Mayfair Dr | 7/11/2019 | 7:01 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 63 | 75 | 27 | 12 | No | | No | | | |
| 240 | | Mayfair Dr | 7/11/2019 | 7:05 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 67 | 77 | 26 | 10 | No | | No | | | Oil Sheen |
| 241 | | Mayfair Dr | 7/11/2019 | 7:10 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 80 | 85 | 37 | 5 | No | | No | | | |
| 242 | | Mayfair Dr | 7/11/2019 | 7:13 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 80 | 83 | 31 | 3 | No | | No | | | |
| 243 | | Mayfair Dr | 7/11/2019 | 7:19 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 69 | 83 | 35 | 14 | No | | No | | | Oil Sheen |
| 244 | | Mayfair Dr | 7/11/2019 | 7:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | | | | | Yes | 64 | 72 | 28 | 8 | No | | No | | | |
| 245 | | Mayfair Dr | 7/11/2019 | 7:28 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 71 | 80 | 33 | 9 | No | | No | | | Sanitary Waste / Smell |
| 246 | | Mayfair Dr | 7/11/2019 | 7:33 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 80 | 86 | 34 | 6 | No | | No | | | Oil Sheen |
| 247 | | Mayfair Dr | 7/11/2019 | 7:37 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 69 | 83 | 32 | 14 | No | | No | | | Oil Sheen |
| 248 | | Mayfair Dr | 7/11/2019 | 7:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 61 | 83 | 32 | 22 | Yes | 69% | No | | | Oil Sheen |
| 249 | | Mayfair Dr | 7/11/2019 | 7:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 64 | 78 | 27 | 14 | Yes | 52% | No | | | Oil Sheen |
| 250 | | Mayfair Dr | 7/11/2019 | 7:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 68 | 75 | 27 | 7 | No | | No | | | Oil Sheen |
| 251 | | Mayfair Dr | 7/11/2019 | 7:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 77 | 85 | 36 | 8 | No | | No | | | |
| 252 | | Pierce Ln | 7/11/2019 | 8:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 64 | 76 | 28 | 12 | No | | No | | | Oil Sheen |
| 253 | | Pierce Ln | 7/11/2019 | 8:05 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 65 | 72 | 24 | 7 | No | | No | | | |
| 254 | | Pierce Ln | 7/11/2019 | 8:09 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Excellent | Excellent | | Excellent | Yes | 62 | 66 | 34 | 4 | No | | Possible | | | Sanitary Waste / Smell. Black Drainage Pipe @ 37" |
| 255 | | Pierce Ln | 7/11/2019 | 8:14 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Excellent | Excellent | | Excellent | Yes | 68 | 73 | 28 | 5 | No | | No | | | Oil Sheen |
| 256 | | Coolidge Farm Rd | 7/11/2019 | 8:20 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 80 | 88 | 29 | 8 | No | | No | | | |
| 257 | | Coolidge Farm Rd | 7/11/2019 | 8:26 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Poor Fair | Good | | Good | Yes | 62 | 81 | 31 | 19 | Yes | 61% | Possible | | | Oil Sheen, PVC Pipe @ 55" |
| 258 | | Coolidge Farm Rd | 7/11/2019 | 8:30 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Concrete | Good | Good | Excellent | Excellent | | Good | Yes | 70 | 72 | 31 | 2 | No | | No | | | |
| 259 | | Coolidge Farm Rd | 7/11/2019 | 8:34 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 58 | 72 | 27 | 14 | Yes | 52% | No | | | |
| 260 | | Coolidge Farm Rd | 7/11/2019 | 8:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 57 | 67 | 21 | 10 | No | | | | | Floatables / Trash |
| 261 | | Coolidge Farm Rd | 7/11/2019 | 8:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 72 | 76 | 26 | 4 | No | | No | | | Oil Sheen |
| 262 | | Whitney Ln | 7/11/2019 | 8:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 62 | 77 | 25 | 15 | Yes | 60% | | | | |
| 263 | | Whitney Ln | 7/11/2019 | 8:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 64 | 70 | 22 | 6 | No | | No | | | |
| 264 | | Whitney Ln | 7/11/2019 | 8:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Poor Fair | Good | | Good | Yes | 65 | 77 | 24 | 12 | Yes | 50% | | | | |
| 265 | | Coolidge Farm Rd | 7/11/2019 | 9:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 70 | 77 | 29 | 7 | No | | No | | | |
| 266 | | Pierce Ln | 7/11/2019 | 9:03 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 63 | 72 | 29 | 9 | No | | | | | |
| 267 | | Pierce Ln | 7/11/2019 | 9:08 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 56 | 63 | 30 | 7 | No | | Possible | | | 2 Black Drainage Pipes Angled Up |
| 268 | | Pierce Ln | 7/11/2019 | 9:14 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 66 | 72 | 25 | 6 | No | | | | | |
| 269 | | Pierce Ln | 7/11/2019 | 9:17 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 49 | 62 | 29 | 13 | No | | | | | |
| 270 | | Pierce Ln | 7/11/2019 | 9:22 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 27 | 43 | 23 | 16 | Yes | 70% | No | | | Oil Sheen |
| 271 | | Chester Rd | 7/11/2019 | 9:33 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 83 | 87 | 15 | 5 | No | | | | | |
| 272 | | Chester Rd | 7/11/2019 | 9:38 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 54 | 68 | 20 | 14 | Yes | 70% | | | | Excessive Sediment |
| 273 | | Chester Rd | 7/11/2019 | 9:48 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Poor Fair | Fair | | Fair | Yes | 51 | 75 | 30 | 24 | Yes | 80% | | | | Excessive Sediment |
| 274 | | Burroughs Rd | 7/11/2019 | 9:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Cast Iron | Good | Good | Poor Fair | Fair | | Fair | Yes | 68 | 81 | 34 | 13 | No | | | | | Excessive Sediment |
| 275 | | Burroughs Rd | 7/11/2019 | 9:59 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Cast Iron | Good | Good | Poor Fair | Good | | Good | Yes | 69 | 76 | 23 | 7 | No | | | | | Excessive Sediment |
| 276 | | Burroughs Rd | 7/11/2019 | 10:02 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 53 | 65 | 15 | 12 | Yes | 80% | No | | | |
| 277 | | Burroughs Rd | 7/11/2019 | 10:06 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 62 | 70 | 16 | 8 | Yes | 50% | No | | | Excessive Sediment |
| 278 | | Burroughs Rd | 7/11/2019 | 10:10 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Poor Fair | Fair Good | | Poor Fair | Yes | 69 | 80 | 25 | 11 | No | | No | | | Excessive Sediment |
| 279 | | Burroughs Rd | 7/11/2019 | 10:16 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 62 | 68 | 19 | 6 | No | | Possible | | | Oil Sheen. Black Drainage Pipe @ 49" |
| 280 | | Burroughs Rd | 7/11/2019 | 10:20 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 36 | 53 | 26 | 17 | Yes | 65% | No | | | Excessive Sediment |
| 281 | | Burroughs Rd | 7/11/2019 | 10:25 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | *Concrete | Good | Good | Fair | Fair | | Poor & Good | Yes | 66 | 66 | 15 | 0 | No | | No | | | Excessive Sediment. * Two Sumps, #1: 51" Fair/Poor Condition, #2: 48" Good Condition |
| 282 | | Priest Ln | 7/11/2019 | 11:02 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 96 | 103 | 55 | 7 | No | | No | | | |
| 283 | | Priest Ln | 7/11/2019 | 11:07 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 77 | 92 | 48 | 15 | No | | No | | | |
| 284 | | Priest Ln | 7/11/2019 | 11:11 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 81 | 90 | 40 | 9 | No | | No | | | |
| 285 | | Priest Ln | 7/11/2019 | 11:16 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | | | | | Good | Good | | | | | Yes | 77 | 91 | | 14 | | | Possible | | | Floatables / Trash. No Visible Sump But Curved Pipe Leading Upward Toward House #82-- See Corresponding Photo |
| 286 | | Priest Ln | 7/11/2019 | 11:21 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Fair Good | Good | | Good | Yes | 78 | 92 | 44 | 14 | No | | No | | | |
| 287 | | Priest Ln | 7/11/2019 | 11:27 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Conrete | Concrete | | Cast Iron | Good | Good | Poor Fair | Good | | Good | Yes | 65 | 81 | 36 | 16 | No | | No | | | |
| 288 | | Priest Ln | 7/11/2019 | 11:33 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 98 | 104 | 51 | 6 | No | | | | | Floatables / Trash |
| 289 | | Burroughs Rd | 7/11/2019 | 11:37 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 78 | 86 | 26 | 8 | No | | No | | | Excessive Sediment |
| 290 | | Burroughs Rd | 7/11/2019 | 11:40 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | No | 58 | | | | | | No | | | *Bottomless? All Stone On Bottom |
| 291 | | Hughes Ln | 7/11/2019 | 11:20 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 66 | 78 | 43 | 12 | No | | No | | | Oil Sheen |
| 292 | | Hughes Ln | 7/11/2019 | 11:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 71 | 76 | 26 | 5 | No | | No | | | Oil Sheen |
| 293 | | Hughes Ln | 7/11/2019 | 11:59 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 70 | 84 | 32 | 14 | No | | No | | | Excessive Sediment |
| 294 | | Hughes Ln | 7/11/2019 | 12:02 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 67 | 80 | 30 | 13 | No | | No | | | |
| 295 | | Hughes Ln | 7/11/2019 | 12:08 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Black Drainage Pipe | Good | Good | Fair Good | Good | | Good | Yes | 61 | 68 | 17 | 7 | No | | No | | | |
| 296 | | Hughes Ln | 7/11/2019 | 12:11 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 69 | 78 | 28 | 9 | No | | No | | | |
| 297 | | Hughes Ln | 7/11/2019 | 12:16 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 70 | 79 | 27 | 9 | No | | No | | | |
| 298 | | Hughes Ln | 7/11/2019 | 12:22 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 62 | 67 | 35 | 5 | No | | No | | | |
| 299 | | Hughes Ln | 7/11/2019 | 12:25 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 78 | 87 | 39 | 9 | No | | Possible | | | Black Drainage Pipe @ 39" |
| 300 | | Corner of Hughes Rd and Stow Rd | 7/11/2019 | 12:34 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Poor Fair | Fair Good | | Good | Yes | 73 | 80 | 24 | 7 | No | | No | | | |
| 301 | | Stow Rd | 7/11/2019 | 12:42 PM | Dry | Road/Curb | Asphalt | 23"x48" | Rectangular | Yes | 3rd panel has exposed rebar + severe cracking | Concrete | Concrete | Concrete | Concrete | | Concrete | Poor Fair | Fair Good | Good | Good | | Good | Yes | 28 | 32 | 9 | 4 | No | | No | | | 2 Out Of 3 Panels Are In Good/Fair Condition. 3rd Panel Has Exposed Rebar + Severe Cracking |
| 302 | | Stow Rd | 7/11/2019 | 12:50 PM | Dry | Road/Curb | Asphalt | 23"x48" | Rectangular | No | | Concrete | Concrete | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 35 | 41 | 9 | 6 | Yes | 67% | No | | | |
| 303 | | Tamarack Ln | 7/11/2019 | | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Poor Fair | Good | | | Yes | 57 | 71 | 34 | 14 | No | | No | | | |
| 304 | | Tamarack Ln | 7/11/2019 | 1:06 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 55 | 66 | 27 | 11 | No | | No | | | |
| 305 | | Meadow Ln | 7/11/2019 | 1:10 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 50 | 60 | 30 | 10 | No | | No | | | |
| 306 | | Meadow Ln | 7/11/2019 | 1:13 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 50 | 63 | 30 | 13 | No | | No | | | |
| 307 | | Meadow Ln | 7/11/2019 | 1:18 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 52 | 58 | 17 | 6 | No | | No | | | |
| 308 | | Meadow Ln | 7/11/2019 | 1:21 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Couple of bricks missing from chimney | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair | | | | Yes | 51 | 56 | 24 | 5 | No | | No | | | |
| 309 | | Meadow Ln | 7/11/2019 | 1:25 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 51 | 56 | 16 | 5 | No | | No | | | |
| 310 | | Meadow Ln | 7/12/2019 | 6:33 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 54 | 62 | 19 | 8 | No | | No | | | Sanitary Waste / Smell |
| 311 | | Meadow Ln | 7/12/2019 | 6:37 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 40 | 51 | 18 | 11 | Yes | 61% | No | | | |
| 312 | | Meadow Ln | 7/12/2019 | 6:42 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 53 | 61 | 20 | 8 | No | | No | | | |
| 313 | | Meadow Ln | 7/12/2019 | 7:20 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 55 | 62 | 24 | 7 | No | | No | | | *Fuel Trip Prior To This CB Cleaning |
| 314 | | Meadow Ln | 7/12/2019 | 7:24 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 42 | 55 | 28 | 13 | No | | Possible | | | Sanitary Waste / Smell, Bubbles Foaming From Runoff |
| 315 | | Tamarack Ln | 7/12/2019 | 7:29 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 53 | 61 | 23 | 8 | No | | No | | | |
| 316 | | Tamarack Ln | 7/12/2019 | 7:33 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 65 | 69 | 21 | 4 | No | | No | | | |
| 317 | | Tamarack Ln | 7/12/2019 | 7:37 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 55 | 63 | 20 | 8 | No | | No | | | |
| 318 | | Tamarack Ln | 7/12/2019 | 7:41 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 55 | 64 | 19 | 9 | No | | No | | | |
| 319 | | Tamarack Ln | 7/12/2019 | 7:45 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 57 | 64 | 16 | 7 | No | | No | | | |
| 320 | | Tamarack Ln | 7/12/2019 | 7:49 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 62 | 68 | | 6 | | | No | | | No Visible Sump |
| 321 | | Tamarack Ln | 7/12/2019 | 7:52 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 66 | 69 | 22 | 3 | No | | No | | | |
| 322 | | Tamarack Ln | 7/12/2019 | 7:57 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 53 | 62 | 24 | 9 | No | | No | | | |
| 323 | | Tamarack Ln | 7/12/2019 | 8:01 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Fair | Yes | 53 | 64 | 24 | 11 | No | | No | | | |
| 324 | | Tamarack Ln | 7/12/2019 | 8:06 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 57 | 69 | 34 | 12 | No | | No | | | |
| 325 | | Fifers Ln | 7/12/2019 | 8:11 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 56 | 77 | 36 | 21 | Yes | 58% | No | | | |
| 326 | | Fifers Ln | 7/12/2019 | 8:20 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | | Good | | Fair | Yes | 87 | 98 | 24 | 11 | No | | No | | | |
| 327 | | Fifers Ln | 7/12/2019 | 8:26 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 61 | 78 | 29 | 17 | Yes | 59% | No | | | |
| 328 | | Fifers Ln | 7/12/2019 | 8:31 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | One patch w/ exposed rebar (chimney and walls) | Cast Iron | Cast Iron | Concrete | Concrete | | Cast Iron | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 83 | 97 | 24 | 14 | Yes | 58% | No | | | Mild Gasoline Scent |
| 329 | | Fifers Ln | 7/12/2019 | 8:37 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 65 | 74 | 25 | 9 | No | | No | | | |
| 330 | | Flagg Hill Rd | 7/12/2019 | 8:51 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | | Good | Good | Fair Good | Good | | | Yes | 144 | 144 | | 0 | | | No | | | No Visible Sump |
| 331 | | Flagg Hill Rd | 7/12/2019 | | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | | | | Good | Yes | 146 | 147 | 87 | 1 | No | | No | | | |
| 332 | | Summer Rd | 7/12/2019 | 8:59 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 68 | 71 | 24 | 3 | No | | No | | | |
| 333 | | Flagg Hill Rd | 7/12/2019 | 9:05 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 69 | 74 | 25 | 5 | No | | No | | | |
| 334 | | Flagg Hill Rd | 7/12/2019 | 9:11 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 53 | 65 | | 12 | | | No | | | Water Level Too High? No Visible Sump |
| 335 | | Flagg Hill Rd | 7/12/2019 | 9:19 AM | Light Rain | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Fair Good | Good | | Good | Yes | 62 | 67 | 16 | 5 | No | | No | | | |
| 336 | | Stow Rd | 7/12/2019 | 9:30 AM | Dry | Road/Curb | Asphalt | 23"x48" | Rectangular | No | | Concrete | Concrete | Concrete | Concrete | | Concrete | Fair Good | Good | Good | Good | | Good | Yes | 51 | 51 | 5 | 0 | No | | No | | | Two Concrete Sumps @ 46" & 34" |
| 337 | | Stow Rd | 7/12/2019 | 9:40 AM | Dry | Road/Curb | Asphalt | 23"x48" | Rectangular | No | | Concrete | Concrete | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 48 | 48 | 4 | 0 | No | | No | | | |
| 338 | | Burroughs Rd | 7/12/2019 | 9:40 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Fair Good | Yes | 71 | 80 | 16 | 9 | Yes | 56% | No | | | |
| 339 | | Burroughs Rd | 7/12/2019 | 9:45 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 37 | 45 | 11 | 8 | Yes | 73% | No | | | Excessive Sediment |
| 340 | | Burroughs Rd | 7/12/2019 | 9:51 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 60 | 84 | 48 | 24 | 50% | 50% | No | | | |
| 341 | | Burroughs Rd | 7/12/2019 | 9:55 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Aluminum | Good | Good | | | | | Yes | 47 | 55 | 19 | 8 | No | | No | | | |
| 342 | | Burroughs Rd | 7/12/2019 | 10:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 44 | 52 | 18 | 8 | No | | | | | Two (2) Cast Iron Sumps @ 34" |
| 343 | | Cedarwood Rd | 7/12/2019 | 10:04 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Good | | Fair | Yes | 72 | 83 | 13 | 11 | Yes | 85% | No | | | Excessive Sediment |
| 344 | | Cedarwood Rd | 7/12/2019 | 10:09 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 58 | 66 | 25 | 8 | No | | No | | | |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | | Other Comments: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | |
| 345 | | Cedarwood Rd | 7/12/2019 | 10:15 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Poor Fair | Good | | Fair | Yes | 76 | 90 | 28 | 14 | 50% | 50% | No | | | Very Mild Oil Sheen |
| 346 | | Cedarwood Rd | 7/12/2019 | 10:20 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 58 | 66 | 22 | 12 | Yes | 55% | No | | | |
| 347 | | Cedarwood Rd | 7/12/2019 | 10:22 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 98 | 104 | 31 | 6 | No | | No | | | |
| 348 | | Cedarwood Rd | 7/12/2019 | 10:27 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 53 | 66 | 30 | 13 | No | | No | | | Sanitary Waste / Smell |
| 349 | | Cedarwood Rd | 7/12/2019 | 10:32 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Fair Good | | Good | Yes | 53 | 55 | 23 | 2 | No | | No | | | Oil Sheen |
| 350 | | Cedarwood Rd | 7/12/2019 | 10:34 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Fair | Good | | Good | Yes | 99 | 107 | 22 | 8 | No | | No | | | |
| 351 | | Cedarwood Rd | 7/12/2019 | 10:38 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Black Drainage Pipe | Good | Good | Fair Good | Good | | Good | Yes | 48 | 54 | 22 | 6 | No | | No | | | |
| 352 | | Cedarwood Rd | 7/12/2019 | 10:43 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 45 | 59 | 29 | 14 | No | | No | | | Sanitary Waste / Smell |
| 353 | | Burroughs Rd | 7/12/2019 | 10:49 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Fair Good | Good | | Good | Yes | 49 | 55 | 18 | 6 | No | | No | | | |
| 354 | | Pine Hill Rd | 7/12/2019 | 10:52 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 48 | 62 | 20 | 14 | Yes | 70% | No | | | |
| 355 | | Pine Hill Rd | 7/12/2019 | 10:56 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 48 | 66 | 20 | 18 | Yes | 90% | No | | | |
| 356 | | Pine Hill Rd | 7/12/2019 | 11:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | | Good | Good | Good | Good | | | Yes | 57 | 68 | | 11 | | | No | | | Sanitary Waste / Smell. No Visible Sump |
| 357 | | Stonehedge Place | 7/12/2019 | 11:36 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 67 | 74 | | 7 | | | No | | | No Visible Sump |
| 358 | | Stonehedge Place | 7/12/2019 | 11:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 69 | 74 | 18 | 5 | No | | No | | | |
| 359 | | Stonehedge Place | 7/12/2019 | 11:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 64 | 70 | | 6 | | | No | | | No Visible Sump. Oil Sheen |
| 360 | | Stonehedge Place | 7/12/2019 | 11:45 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 79 | 88 | 30 | 9 | No | | No | | | Oil Sheen |
| 361 | | Stonehedge Place | 7/12/2019 | 11:48 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 69 | 80 | 28 | 11 | No | | No | | | |
| 362 | | Stonehedge Place | 7/12/2019 | 11:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 70 | 81 | 30 | 9 | No | | No | | | |
| 363 | | Stonehedge Place | 7/12/2019 | 11:56 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 78 | 85 | 28 | 7 | No | | No | | | |
| 364 | | Stonehedge Place | 7/12/2019 | 12:01 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 59 | 69 | 28 | 10 | No | | | | | |
| 365 | | Stonehedge Place | 7/12/2019 | 12:05 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Chimney: exposed rebar and crumbling | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Poor Fair | Good | | Good | Yes | 72 | 82 | 23 | 10 | No | | No | | | Oil Sheen |
| 366 | | Stonehedge Place | 7/12/2019 | 12:10 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 71 | 76 | 32 | 5 | No | | No | | | |
| 367 | | Pine Hill Rd | 7/12/2019 | 12:14 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 81 | 93 | 28 | 12 | No | | No | | | |
| 368 | | Pine Hill Rd | 7/12/2019 | 12:17 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 57 | 67 | 24 | 10 | No | | No | | | |
| 369 | | Pine Hill Rd | 7/12/2019 | 12:20 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 82 | 89 | 40 | 7 | No | | No | | | |
| 370 | | Pine Hill Rd | 7/12/2019 | | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 46 | 51 | 22 | 5 | No | | No | | | |
| 371 | | Pine Hill Rd | 7/12/2019 | 12:28 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 51 | 51 | 18 | 0 | No | | No | | | |
| 372 | | Pine Hill Rd | 7/12/2019 | 12:31 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 34 | 53 | 21 | 19 | Yes | 90% | No | | | Excessive Sediment |
| 373 | | Pine Hill Rd | 7/12/2019 | 12:37 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 56 | 67 | 22 | 11 | 50% | 50% | No | | | |
| 374 | | Burroughs Rd | 7/15/2019 | 7:09 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Fair Good | | Good | Yes | 50 | 65 | 25 | 15 | Yes | 60% | No | | | Sanitary Waste / Smell |
| 375 | | Burroughs Rd | 7/15/2019 | 7:15 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 67 | 78 | 13 | 11 | Yes | 85% | No | | | Excessive Sediment |
| 376 | | Burroughs Rd | 7/15/2019 | 7:24 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 74 | 87 | 19 | 13 | Yes | 68% | No | | | |
| 377 | | Kendall Rd | 7/15/2019 | | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 54 | 59 | 29 | 5 | No | | No | | | Sanitary Waste / Smell |
| 378 | | Kendall Rd | 7/15/2019 | 7:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 59 | 72 | 23 | 13 | Yes | 57% | No | | | |
| 379 | | Kendall Rd | 7/15/2019 | 7:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 63 | 73 | 19 | 10 | Yes | 53% | No | | | |
| 380 | | Kendall Rd | 7/15/2019 | 7:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 72 | 76 | 31 | 4 | No | | No | | | Oil Sheen |
| 381 | | Kendall Rd | 7/15/2019 | 7:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Cast Iron | Good | Good | Fair Good | Good | | Good | Yes | 50 | 65 | 19 | 15 | Yes | 79% | No | | | |
| 382 | | Kendall Rd | 7/15/2019 | 7:51 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Fair | Yes | 58 | 63 | 24 | 5 | No | | No | | | |
| 383 | | Kendall Rd | 7/15/2019 | 7:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 68 | 74 | 18 | 4 | No | | No | | | Oil Sheen |
| 384 | | Kendall Rd | 7/15/2019 | 7:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Poor Fair | Fair | | Fair Good | Yes | 53 | 61 | 28 | 8 | No | | No | | | Sanitary Waste / Smell, Oil Sheen |
| 385 | | Summer Rd | 7/15/2019 | 8:06 AM | Dry | Road/Curb | Asphalt | 23"x48" | Rectangular | No | | Concrete | Concrete | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 48 | 57 | 27 | 9 | No | | No | | | |
| 386 | | Pine Pasture Run | 7/15/2019 | 8:08 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 60 | 75 | 26 | 15 | Yes | 58% | No | | | Oil Sheen |
| 387 | | Pine Pasture Run | 7/15/2019 | 8:15 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 79 | 89 | 27 | 10 | No | | No | | | Sanitary Waste / Smell, Oil Sheen |
| 388 | | Pine Pasture Run | 7/15/2019 | 8:19 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrte | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 60 | 73 | 27 | 13 | No | | Possible | | | Oil Sheen. PVC Pipe @ 41 " From House #20 Direction |
| 389 | | Pine Pasture Run | 7/15/2019 | 8:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 48 | 57 | 8 | 9 | Yes | FULL | No | | | Excessive Sediment |
| 390 | | Summer Rd | 7/15/2019 | 8:29 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 30 | 31 | 3 | 1 | No | | No | | | |
| 391 | | Summer Rd | 7/15/2019 | 8:32 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Fair | | Good | Yes | 43 | 45 | 12 | 2 | No | | No | | | *Asphalt On Bottom |
| 392 | | Summer Rd | 7/15/2019 | 8:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 68 | 80 | 32 | 12 | No | | Possible | | | Black Drainage Pipes @ 50" In Direction Of Complex |
| 393 | | Summer Rd | 7/15/2019 | 8:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 53 | 77 | | 24 | | | No | | | No Visible Sump. Excessive Sediment |
| 394 | | Reed Farm Rd | 7/15/2019 | 8:52 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrte | | | Good | Good | Fair Good | Good | | | Yes | 62 | 70 | | 8 | | | No | | | No Visible Sump |
| 395 | | Reed Farm Rd | 7/15/2019 | 8:56 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 60 | 66 | 30 | 6 | No | | No | | | |
| 396 | | Reed Farm Rd | 7/15/2019 | 9:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 63 | 68 | 23 | 5 | No | | No | | | |
| 397 | | Reed Farm Rd | 7/15/2019 | 9:02 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 70 | 79 | 29 | 9 | No | | No | | | |
| 398 | | Reed Farm Rd | 7/15/2019 | 9:06 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 67 | 71 | 26 | 4 | No | | No | | | |
| 399 | | Reed Farm Rd | 7/15/2019 | 9:10 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 80 | 83 | 30 | 3 | No | | No | | | |
| 400 | | Reed Farm Rd | 7/15/2019 | 9:13 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 81 | 89 | | 8 | | | No | | | No Visible Sump |
| 401 | | Reed Farm Rd | 7/15/2019 | 9:17 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 66 | 68 | 20 | 2 | No | | No | | | |
| 402 | | Reed Farm Rd | 7/15/2019 | 9:20 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Fair Good | Yes | 61 | 68 | 28 | 7 | No | | No | | | |
| 403 | | Reed Farm Rd | 7/15/2019 | 9:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Fair Good | Yes | 63 | 65 | 20 | 2 | No | | No | | | Mild Oil Sheen |
| 404 | | Reed Farm Rd | 7/15/2019 | 9:27 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Fair Good | Yes | 55 | 66 | 22 | 11 | 50% | 50% | Possible | | | Mild Chlorine Scent, Sanitary Waste / Smell |
| 405 | | Blanchard Rd | 7/15/2019 | 9:30 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 68 | 75 | 27 | 7 | No | | No | | | Very Mild Oil Sheen |
| 406 | | Blanchard Rd | 7/15/2019 | 9:34 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 49 | 52 | 9 | 3 | No | | No | | | Oil Sheen |
| 407 | | Blanchard Rd | 7/15/2019 | 9:38 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Chimney is in need of repairs | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Poor | Good | | Good | Yes | 52 | 62 | 26 | 10 | No | | No | | | Refer To Corresponding Pictures For Damages |
| 408 | | Blanchard Rd | 7/15/2019 | 9:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 62 | 66 | 26 | 4 | No | | No | | | |
| 409 | | Blanchard Rd | 7/15/2019 | 9:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 54 | 61 | 28 | 7 | No | | No | | | |
| 410 | | Blanchard Rd | 7/15/2019 | 9:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 64 | 68 | 24 | 4 | No | | No | | | |
| 411 | | Blanchard Rd | 7/15/2019 | 9:52 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Fiberglass | Good | Good | Fair Good | Good | | Good | Yes | 69 | 73 | 33 | 4 | No | | No | | | |
| 412 | | Blanchard Rd | 7/15/2019 | 9:56 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | PVC | Good | Good | Good | Good | | Good | Yes | 57 | 63 | 43 | 14 | No | | No | | | |
| 413 | | Inches Brook Ln | 7/15/2019 | 10:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrtee | Concrte | | Concrete | Good | Good | Good | Good | | Good | Yes | 87 | 93 | 31 | 6 | No | | No | | | |
| 414 | | Inches Brook Ln | 7/15/2019 | 10:06 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Poor Fair | Yes | 73 | 75 | 33 | 2 | No | | No | | | |
| 415 | | Inches Brook Ln | 7/15/2019 | 10:08 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Chimney : repairs needed soon, Sump: exposed rebar wire | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Poor Fair | Good | | Poor Fair | Yes | 56 | 63 | 34 | 7 | No | | No | | | Oil Sheen |
| 416 | | Inches Brook Ln | 7/15/2019 | 10:11 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Some exposed rebar wire | Cast Iron | Cast Iron | Brick Concrte | Concrete | | Concrete | Good | Good | Fair Good | Good | | Poor Fair | Yes | 78 | 85 | 35 | 7 | No | | No | | | |
| 417 | | Inches Brook Ln | 7/15/2019 | 10:17 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Sump repairs needed soon | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Fair | Yes | 70 | 80 | 33 | 10 | No | | No | | | |
| 418 | | Blanchard Rd | 7/15/2019 | 10:20 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Chimney repairs needed soon | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Poor Fair | Good | | Good | Yes | 69 | 75 | 26 | 6 | No | | No | | | |
| 419 | | Blanchard Rd | 7/15/2019 | 10:24 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 66 | 74 | 26 | 8 | No | | No | | | |
| 420 | | Blanchard Rd | 7/15/2019 | 10:28 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 68 | 74 | 22 | 6 | No | | No | | | |
| 421 | | Reed Farm Rd | 7/15/2019 | 10:36 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 64 | 75 | 24 | 11 | No | | No | | | Sanitary Waste / Smell |
| 422 | | Reed Farm Rd | 7/15/2019 | 10:40 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 62 | 68 | 21 | 6 | No | | No | | | |
| 423 | | Reed Farm Rd | 7/15/2019 | 10:43 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 60 | 68 | 25 | 8 | No | | No | | | |
| 424 | | Reed Farm Rd | 7/15/2019 | 10:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 67 | 74 | 36 | 7 | No | | No | | | |
| 425 | | Reed Farm Rd | 7/15/2019 | 11:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 65 | 73 | 29 | 8 | No | | No | | | Sanitary Waste / Smell |
| 426 | | Reed Farm Rd | 7/15/2019 | 11:45 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 79 | 84 | | 5 | | | No | | | No Visible Sump |
| 427 | | Reed Farm Rd | 7/15/2019 | 11:48 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 80 | 84 | 28 | 4 | No | | No | | | |
| 428 | | Reed Farm Rd | 7/15/2019 | 11:51 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 76 | 83 | 26 | 7 | No | | No | | | |
| 429 | | Reed Farm Rd | 7/15/2019 | 11:55 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Fair | Yes | 77 | 83 | 30 | 6 | No | | No | | | |
| 430 | | Reed Farm Rd | 7/15/2019 | 11:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | | | | Fair | Yes | 64 | 72 | 28 | 8 | No | | No | | | |
| 431 | | Reed Farm Rd | 7/15/2019 | 12:02 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Fair | Yes | 59 | 67 | 28 | 8 | No | | No | | | |
| 432 | | Reed Farm Rd | 7/15/2019 | 12:05 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 56 | 65 | 23 | 9 | No | | No | | | |
| 433 | | Liberty Square Rd | 7/15/2019 | 12:09 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 67 | 77 | 17 | 10 | Yes | 59% | Possible | | | Black Drainage Pipe @ 43" Coming From House #235 Direction |
| 434 | | Liberty Square Rd | 7/15/2019 | 12:13 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Cast Iron | Good | Good | Good | Good | | Fair Good | Yes | 65 | 75 | 15 | 10 | Yes | | No | | | |
| 435 | | Depot Rd | 7/15/2019 | 12:46 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 76 | 80 | 19 | 4 | No | | No | | | Oil Sheen |
| 436 | | Depot Rd | 7/15/2019 | 12:49 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Good | | Fair Good | Yes | 71 | 74 | 14 | 3 | No | | No | | | Mild Sanitary Waste / Smell. Two (2) Concrete Sumps, One At 40" One At 60" |
| 437 | | Nashoba Dr | 7/15/2019 | 12:54 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 60 | 69 | 33 | 9 | No | | No | | | Sanitary Waste / Smell |
| 438 | | Nashoba Dr | 7/15/2019 | 1:01 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 47 | 55 | 13 | 8 | Yes | 62% | No | | | |
| 439 | | Nashoba Dr | 7/15/2019 | 1:04 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 37 | 44 | | 7 | | | No | | | Excessive Sediment |
| 440 | | Nashoba Dr | 7/15/2019 | 1:08 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 68 | 79 | 25 | 11 | No | | No | | | |
| 441 | | Nashoba Dr | 7/15/2019 | 1:12 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Good | Good | | Good | Yes | 70 | 76 | 38 | 6 | No | | No | | | |
| 442 | | Nashoba Dr | 7/15/2019 | 1:15 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 74 | 76 | 31 | 2 | No | | No | | | |
| 443 | | Davidson Rd | 7/15/2019 | 1:19 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 73 | 72 | 18 | 9 | 50% | 50% | Possible | | | PVC Pipe @ 38" From 7 Osceola Dr Direction |
| 444 | | Davidson Rd | 7/15/2019 | 1:27 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair | Good | | Good | Yes | 68 | 82 | 48 | 14 | No | | Possible | | | PVC Pipe @ 32' |
| 445 | | Liberty Square Rd | 7/15/2019 | 1:33 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 50 | 68 | 25 | 18 | Yes | 72% | No | | | |
| 446 | | Liberty Square Rd | 7/15/2019 | 1:39 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 61 | 67 | 21 | 6 | No | | No | | | |
| 447 | | Liberty Square Rd | 7/15/2019 | 1:41 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair | | Good | Yes | 83 | 96 | 23 | 13 | Yes | 57% | No | | | |
| 448 | | Liberty Square Rd | 7/15/2019 | 1:46 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Poor Fair | Poor Fair | | Good | Yes | 84 | 86 | 8 | 2 | No | | No | | | |
| 449 | | Liberty Square Rd | 7/15/2019 | 1:50 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 83 | 86 | 29 | 3 | No | | No | | | |
| 450 | | Benjamin Dr | 7/15/2019 | 1:52 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Good | Yes | 65 | 74 | 15 | 9 | Yes | 60% | | | | |
| 451 | | Benjamin Dr | 7/15/2019 | 1:55 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 65 | 70 | 18 | 5 | No | | No | | | |
| 452 | | Benjamin Dr | 7/15/2019 | 2:00 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 64 | 72 | 17 | 8 | No | | No | | | |
| 453 | | Benjamin Dr | 7/15/2019 | 2:02 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 63 | 75 | 18 | 12 | Yes | 67% | No | | | Sanitary Waste / Smell |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 454 | | Liberty Square Rd | 7/15/2019 | 2:06 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 66 | 75 | 23 | 9 | No | | No | | | |
| 455 | | Liberty Square Rd | 7/15/2019 | 2:10 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 83 | 88 | 21 | 5 | No | | No | | | |
| 456 | | Liberty Square Rd | 7/15/2019 | 2:13 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Cast Iron | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 53 | 56 | 18 | 3 | No | | No | | | |
| 457 | | Waite Rd | 7/15/2019 | 2:16 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 49 | 68 | 23 | 19 | Yes | 83% | No | | | |
| 458 | | Waite Rd | 7/15/2019 | 2:23 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 65 | 76 | 20 | 11 | Yes | 55% | No | | | |
| 459 | | Waite Rd | 7/15/2019 | 2:25 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 47 | 65 | 23 | 18 | Yes | 78% | No | | | Excessive Sediment |
| 460 | | Waite Rd | 7/15/2019 | 2:30 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 51 | 65 | 18 | 14 | Yes | 78% | No | | | Excessive Sediment |
| 461 | | Waite Rd | 7/16/2019 | 6:17 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 48 | 65 | 25 | 17 | Yes | 68% | No | | | |
| 462 | | Waite Rd | 7/16/2019 | 6:19 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 51 | 70 | 25 | 19 | Yes | 76% | No | | | Excessive Sediment |
| 463 | | Waite Rd | 7/16/2019 | 6:25 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Good | Yes | 51 | 67 | 21 | 16 | Yes | 76% | No | | | Excessive Sediment |
| 464 | | Waite Rd | 7/16/2019 | 6:31 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | | | | | Good | Good | | | | | Yes | 56 | 66 | 25 | 10 | No | | No | | | |
| 465 | | Liberty Square Rd | 7/16/2019 | 6:36 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Good | Yes | 79 | 85 | 29 | 6 | No | | No | | | |
| 466 | | Liberty Square Rd | 7/16/2019 | 6:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 86 | 87 | 25 | 1 | No | | No | | | |
| 467 | | Liberty Square Rd | 7/16/2019 | 6:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Fair Good | Yes | 85 | 86 | 48 | 1 | No | | No | | | |
| 468 | | Liberty Square Rd | 7/16/2019 | 6:46 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Poor Fair | | Good | Yes | 50 | 64 | 34 | 14 | No | | No | | | Gasoline Scent, Oil Sheen |
| 469 | | Liberty Square Rd | 7/16/2019 | 6:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 90 | 92 | 62 | 2 | No | | No | | | Oil Sheen |
| 470 | | Liberty Square Rd | 7/16/2019 | 6:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 80 | 85 | 21 | 5 | No | | No | | | |
| 471 | | Liberty Square Rd | 7/16/2019 | 6:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 76 | 79 | 32 | 3 | No | | No | | | Sanitary Waste / Smell |
| 472 | | Liberty Square Rd | 7/16/2019 | 7:01 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 45 | 60 | 15 | 15 | Yes | 100% | No | | | Excessive Sediment |
| 473 | | Liberty Square Rd | 7/16/2019 | 7:07 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Good | Yes | 45 | 64 | 19 | 19 | Yes | 100% | No | | | Excessive Sediment |
| 474 | | Liberty Square Rd | 7/16/2019 | 7:13 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 39 | 70 | 33 | 31 | Yes | 94% | No | | | Sanitary Waste / Smell |
| 475 | | Liberty Square Rd | 7/16/2019 | 7:21 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Fair | Yes | 82 | 84 | 38 | 2 | No | | No | | | |
| 476 | | Liberty Square Rd | 7/16/2019 | 7:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Good | | Fair Good | Yes | 82 | 95 | 20 | 13 | Yes | 65% | No | | | |
| 477 | | Liberty Square Rd | 7/16/2019 | 7:28 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 92 | 97 | 24 | 5 | No | | No | | | |
| 478 | | Liberty Square Rd | 7/16/2019 | 7:34 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Fair Good | Yes | 70 | 74 | 22 | 4 | No | | No | | | |
| 479 | | Liberty Square Rd | 7/16/2019 | 7:36 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Fair | Yes | 77 | 79 | 31 | 2 | No | | No | | | Three Sumps @ 48" |
| 480 | | Liberty Square Rd | 7/16/2019 | 7:40 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Fair Good | Fair Good | | Fair, Concrete | Yes | 69 | 78 | 12 | 9 | Yes | 75% | No | | | 2 Sumps |
| 481 | | Liberty Square Rd | 7/16/2019 | 7:46 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Cast Iron | Good | Good | Good | Good | | Fair Good | Yes | 60 | 66 | 11 | 6 | Yes | 55% | No | | | Oil Sheen |
| 482 | | Liberty Square Rd | 7/16/2019 | 7:49 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 70 | 77 | 17 | 7 | No | | No | | | |
| 483 | | Liberty Square Rd | 7/16/2019 | 7:53 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Fair Good | Yes | 57 | 72 | 20 | 15 | Yes | 75% | Possible | | | Black Drainage Pipe @ 52" |
| 484 | | Liberty Square Rd | 7/16/2019 | 7:56 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrte | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 42 | 62 | 19 | 20 | Yes | FULL | No | | | Excessive Sediment |
| 485 | | Liberty Square Rd | 7/16/2019 | 8:04 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Cast Iron | Good | Good | | | | Poor, Concrete | Yes | 79 | 81 | 2 | 2 | Yes | FULL | No | | | Two Sumps @ 79" Cast Iron Appears To Be Older As The Condition Is Less Ideal |
| 486 | | Liberty Square Rd | 7/16/2019 | 8:09 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Good | Good | | Good | Yes | 41 | 52 | 21 | 11 | Yes | 52% | No | | | Oil Sheen |
| 487 | | Boxmill Rd | 7/16/2019 | | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Brick Concrete | | Concrete | Good | Good | Good | Fair Good | | Fair | Yes | 41 | 52 | 14 | 11 | Yes | 79% | No | | | Oil Sheen |
| 488 | | Boxmill Rd | 7/16/2019 | 8:19 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Fair Good | Yes | 67 | 80 | 20 | 13 | Yes | 65% | No | | | |
| 489 | | Boxmill Rd | 7/16/2019 | 8:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Fair Good | Yes | 49 | 52 | 7 | 3 | No | | | | | Two (2) Concrete Sumps @ 45" |
| 490 | | Boxmill Rd | 7/16/2019 | 8:27 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair | Yes | 103 | 109 | 16 | 6 | No | | No | | | |
| 491 | | Boxmill Rd | 7/16/2019 | 8:31 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 103 | 108 | 21 | 5 | No | | No | | | |
| 492 | | Boxmill Rd | 7/16/2019 | 8:38 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Good | Yes | 44 | 63 | 28 | 19 | Yes | 68% | No | | | |
| 493 | | Guggins Ln | 7/16/2019 | 8:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 77 | 89 | 15 | 12 | Yes | 80% | | | | |
| 494 | | Guggins Ln | 7/16/2019 | 8:47 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Poor Fair | Fair Good | | Good | Yes | 58 | 66 | 20 | 8 | No | | No | | | |
| 495 | | Guggins Ln | 7/16/2019 | 8:55 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Good | Yes | 101 | 107 | 23 | 6 | No | | No | | | Two (2) Sumps |
| 496 | | Guggins Rd | 7/16/2019 | 8:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Aluminum | Good | Good | Fair | Fair Good | | Fair | Yes | 42 | 61 | 22 | 19 | Yes | 86% | No | | | Sanitary Waste / Smell |
| 497 | | Loring Ave | 7/16/2019 | 9:33 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Chimney repairs needed soon | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Poor Fair | Good | | | Yes | 53 | 75 | | 22 | | | No | | | No Visible Sump. See Corresponding Pictures. |
| 498 | | Joyce Ln | 7/16/2019 | 9:37 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 82 | 97 | | 15 | | | | | | Floatables / Trash |
| 499 | | Joyce Ln | 7/16/2019 | 9:44 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Black Drainage Pipe | Good | Good | Fair | Good | | Good | Yes | 108 | 122 | 30 | 14 | No | | No | | | Oil Sheen, Floatable / Trash |
| 500 | | Joyce Ln | 7/16/2019 | 9:49 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 118 | 127 | | 9 | | | | | | No Visible Sump |
| 501 | | Joyce Ln | 7/16/2019 | 9:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Road is begining to cave in around CB | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Poor Fair | Good | | | Yes | 64 | 84 | | 20 | | | No | | | No Visible Sump. Oil Sheen, Floatable /Trash |
| 502 | | Loring Ave | 7/16/2019 | 10:00 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 70 | 89 | | 19 | | | No | | | No Visible Sump. Oil Sheen, Floatable /Trash |
| 503 | | Loring Ave | 7/16/2019 | 10:05 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Black Drainage Pipe | Good | Good | Fair Good | Fair Good | | Good | Yes | 77 | 78 | 26 | 1 | No | | No | | | Oil Sheen, Floatables / Trash |
| 504 | | Macleod Way | 7/16/2019 | 10:12 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 84 | 94 | | 10 | | | | | | No Visible Sump. Floatables / Trash |
| 505 | | Macleod Way | 7/16/2019 | 10:21 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | 82 | Good | Good | Fair Good | Good | | | Yes | 94 | | 12 | | | | No | | | Oil Sheen, Floatables / Trash. No Visible Sump |
| 506 | | Loring Ave | 7/16/2019 | 10:25 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 72 | 85 | | 13 | | | No | | | Oil Sheen, Floatables / Trash. No Visible Sump |
| 507 | | Loring Ave | 7/16/2019 | 10:34 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 76 | 90 | | 14 | | | No | | | Oil Sheen, Floatables / Trash. No Visible Sump. See Pictures |
| 508 | | Loring Ave | 7/16/2019 | 10:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair | Good | | | Yes | 74 | 88 | | 14 | | | No | | | Oil Sheen, Floatables / Trash. No Visible Sump |
| 509 | | Summer Rd | 7/16/2019 | 11:02 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | Missing corner piece in grate, nothing major | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Aluminum | Good | Good | Fair | Fair | | Fair | Yes | 34 | 45 | 20 | 11 | Yes | 55% | No | | | |
| 510 | | Pine Pasture Run | 7/16/2019 | 11:07 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrte | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 70 | 73 | 30 | 3 | No | | No | | | |
| 511 | | Windmere Dr | 7/16/2019 | 11:14 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Concrete | Fair Good | | Good | Yes | 61 | 66 | 25 | 5 | No | | No | | | |
| 512 | | Windmere Dr | 7/16/2019 | 11:19 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | | Good | Good | Fair Good | Fair Good | | | Yes | 85 | 86 | | 1 | | | No | | | No Visible Sump, Water Level Too High? Oil Sheen |
| 513 | | Windmere Dr | 7/16/2019 | 11:24 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 68 | 70 | 15 | 2 | No | | No | | | |
| 514 | | Windmere Dr | 7/16/2019 | 11:29 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Fair Good | | Good | Yes | 53 | 66 | 15 | 13 | Yes | 87% | No | | | Excessive Sediment |
| 515 | | Windmere Dr | 7/16/2019 | 11:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 60 | 63 | 29 | 3 | No | | No | | | |
| 516 | | Windmere Dr | 7/16/2019 | 11:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Fair Good | Yes | 41 | 57 | 23 | 16 | Yes | 70% | No | | | |
| 517 | | Windmere Dr | 7/16/2019 | 11:46 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 48 | 63 | 21 | 15 | Yes | 71% | No | | | Sanitary Waste / Smell |
| 518 | | Windmere Dr | 7/16/2019 | 11:52 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Fiberglass | Good | Good | Fair Good | Good | | Good | Yes | 64 | 68 | 26 | 4 | No | | No | | | |
| 519 | | Windmere Dr | 7/16/2019 | 11:56 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 79 | 86 | 22 | 7 | No | | Possible | | | 3 Pipes, 2 Concrete 1 Fiberglass |
| 520 | | Windmere Dr | 7/16/2019 | 12:01 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 79 | 85 | 25 | 6 | No | | No | | | Two Concrete Sumps @ 60" |
| 521 | | Windmere Dr | 7/16/2019 | 12:05 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 65 | 71 | 34 | 6 | No | | No | | | |
| 522 | | Windmere Dr | 7/16/2019 | 12:10 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 65 | 77 | 20 | 12 | Yes | 60% | No | | | 3 Concrete Sumps |
| 523 | | Windmere Dr | 7/16/2019 | 12:15 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 77 | 84 | 24 | 7 | No | | No | | | |
| 524 | | Windmere Dr | 7/16/2019 | 12:19 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 62 | 64 | 6 | 2 | No | | No | | | |
| 525 | | Windmere Dr | 7/16/2019 | 12:23 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 46 | 55 | 8 | 9 | Yes | FULL | No | | | |
| 526 | | Windmere Dr | 7/16/2019 | 12:26 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | | Good | Good | Fair | Fair Good | | | Yes | 57 | 64 | | 7 | | | No | | | No Visible Sump, Water Level Too High |
| 527 | | Windmere Dr | 7/16/2019 | 12:33 PM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Aluminum | Good | Good | Fair | Fair Good | | Fair | Yes | 58 | 62 | 30 | 4 | No | | No | | | Oil Sheen |
| 528 | | Avebury Cir | 7/18/2019 | 7:12 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Fair Good | Good | | Fair Good | Yes | 71 | 79 | 26 | 8 | No | | No | | | |
| 529 | | Colonial Ridge Dr | 7/18/2019 | | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 83 | 91 | 52 | 8 | No | | No | | | |
| 530 | | Ridge Dr | 7/18/2019 | 7:30 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 74 | 85 | | 11 | | | No | | | No Visible Sump, Water Too High |
| 531 | | Colonial Ridge Dr | 7/18/2019 | 7:35 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 81 | 89 | | 8 | | | No | | | Sanitary Waste / Smell. No Visible Sump |
| 532 | | Colonial Ridge Dr | 7/18/2019 | 7:38 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 77 | 88 | 53 | 11 | No | | No | | | Sanitary Waste / Smell |
| 533 | | Colonial Ridge Dr | 7/18/2019 | 7:42 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 70 | 82 | | 12 | | | No | | | |
| 534 | | Colonial Ridge Dr | 7/18/2019 | 7:46 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Fair Good | Yes | 81 | 91 | 51 | 10 | No | | No | | | |
| 535 | | Colonial Ridge Dr | 7/18/2019 | 7:50 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 75 | 88 | | 13 | | | No | | | No Visible Sump |
| 536 | | Middle rd | 7/18/2019 | 8:03 AM | Dry | Road/Curb | Asphalt | 23"x48" | Rectangular | No | | Concrete | Concrete | Concrete | Concrete | | Concrete | Good | Good | Good | Good | | Good | Yes | 36 | 55 | 26 | 19 | Yes | 73% | No | | | |
| 537 | | Guggins Ln | 7/18/2019 | 8:49 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Cast Iron | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 37 | 49 | 14 | 12 | Yes | 86% | No | | | |
| 538 | | Guggins Ln | 7/18/2019 | 8:54 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrtee | | Concrete | Good | Good | Fair | Fair | | Good | Yes | 59 | 74 | 26 | 15 | Yes | 58% | No | | | |
| 539 | | Guggins Ln | 7/18/2019 | 8:58 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 64 | 69 | 23 | 5 | No | | | | | |
| 540 | | Guggins Ln | 7/18/2019 | 9:01 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 91 | 98 | 26 | 7 | No | | | | | |
| 541 | | Guggins Ln | 7/18/2019 | 9:05 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrtee | Brick Concrete | | Concrete | Good | Good | Fair | Fair Good | | Fair Good | Yes | 59 | 69 | 27 | 10 | No | | | | | |
| 542 | | Guggins Ln | 7/18/2019 | 9:07 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Good | Yes | 64 | 74 | 26 | 10 | No | | | | | |
| 543 | | Boxmill Rd | 7/18/2019 | 9:15 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 69 | 84 | 21 | 15 | Yes | 71% | No | | | |
| 544 | | Boxmill Rd | 7/18/2019 | 9:18 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Concrete | Good | Good | Fair Good | Fair Good | | Fair Good | Yes | 39 | 51 | 14 | 12 | Yes | 86% | No | | | Satitary Waste / Smell |
| 545 | | Liberty Square Rd | 7/18/2019 | 9:23 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Brick Concrete | | Cast Iron | Good | Good | Good | Fair Good | | Fair Good | Yes | 42 | 58 | 21 | 16 | Yes | 76% | No | | | Satitary Waste / Smell |
| 546 | | Library | 7/18/2019 | 9:29 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 65 | 79 | 45 | 14 | No | | No | | | |
| 547 | | Library | 7/18/2019 | 9:36 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | | Good | Good | Fair Good | Good | | | Yes | 86 | 90 | | 4 | | | No | | | Oil Sheen, No Visible Sump |
| 548 | | Library | 7/18/2019 | 9:39 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | | | Good | Good | Good | Good | | | Yes | 75 | 75 | | 0 | | | No | | | No Visible Sump |
| 549 | | Library | 7/18/2019 | 9:41 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 86 | 99 | 41 | 13 | No | | No | | | |
| 550 | | Library | 7/18/2019 | 9:45 AM | Dry | Road/Curb | Asphalt | 24"x24" | Square | No | | Cast Iron | Cast Iron | Brick Concrete | Concrete | | Concrete | Good | Good | Fair Good | Good | | Good | Yes | 72 | 81 | 47 | 9 | No | | No | | | |

**Boxborough Catch Basin Inspection Results 2020**

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 1 | Found | Swanson Rd | 10/22/2020 | 07:22 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | | Good | Good | Fair | Good | N/A | | Yes | 52 | 72 | 50 | 20 | No | 40% | N/A | None | | |
| 2 | Found | Swanson Rd | 10/22/2020 | 07:25 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 65 | 47 | 5 | No | 11% | N/A | None | | |
| 3 | Found | Swanson Rd | 10/22/2020 | 07:30 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Fair | Fair | Fair | Good | N/A | Good | Yes | 53 | 74 | 54 | 21 | No | 39% | N/A | None | | |
| 4 | Found | Swanson Rd | 10/22/2020 | 07:33 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 58 | 72 | 48 | 14 | No | 29% | N/A | None | | |
| 5 | Found | Swanson Rd | 10/22/2020 | 08:05 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 52 | 66 | 42 | 14 | No | 33% | N/A | None | | |
| 7 | Found | Swanson Rd | 10/22/2020 | 07:37 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 84 | 52 | 12 | No | 23% | Unlikely | Sewage Odor | Slight sewage odor | |
| 8 | Found | Swanson Rd | 10/22/2020 | 08:02 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 72 | 48 | 12 | No | 25% | Unlikely | Sewage Odor | Slight sewage odor | |
| 10 | Found | Swanson Rd | 10/22/2020 | 07:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 62 | 74 | 50 | 12 | No | 24% | N/A | None | | |
| 11 | Found | Swanson Rd | 10/22/2020 | 07:44 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Fair | Fair | Good | N/A | Good | Yes | 70 | 82 | 40 | 12 | No | 30% | N/A | None | | |
| 12 | Found | Swanson Rd | 10/22/2020 | 07:48 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 82 | 44 | 14 | No | 32% | N/A | None | | |
| 13 | Found | Swanson Rd | 10/22/2020 | 07:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | | | Good | Good | | | | | Yes | 8 | 16 | | 8 | Yes | 100% | Unlikely | Excessive Sediment | Full of sediment | Catch basin completely filled with leaves and sediment |
| 14 | Found | Whitcomb Rd | 10/22/2020 | 07:57 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 77 | 59 | 7 | No | 12% | N/A | None | | |
| 15 | Found | Hill Rd | 10/21/2020 | 07:14 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 65 | 73 | 25 | 8 | No | 32% | N/A | None | | |
| 16 | Found | 411 Hill Rd | 10/21/2020 | 07:13 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | | | Good | Good | | | | | Yes | 0 | 18 | 18 | 18 | Yes | 100% | Unlikely | Excessive Sediment | Full of sediment | Bucket could not get past sediment level shown in after cleaning picture |
| 17 | Found | Middle Rd | 10/21/2020 | 07:25 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 39 | 48 | 10 | 9 | Yes | 90% | Unlikely | Floatables - Suds | | |
| 18 | Found | Middle Rd | 10/21/2020 | 07:37 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Concrete | Concrete | Concrete | Concrete | N/A | Concrete | Good | Good | N/A | Fair | N/A | Good | Yes | 6 | 18 | 0 | 12 | Yes | FULL | N/A | None | | |
| 19 | Found | 115 Middle Rd | 10/21/2020 | 07:34 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Concrete | Concrete | Concrete | Concrete | N/A | | Fair | Good | Good | Good | N/A | | Yes | 32 | 47 | 15 | 15 | Yes | 100% | Unlikely | Odor,Floatables | Smells like decay | |
| 20 | Found | Middle Rd | 10/21/2020 | 07:53 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 55 | 59 | 28 | 4 | No | 14% | N/A | None | | Catch basin located in a driveway |
| 21 | Found | Middle Rd | 10/21/2020 | 07:41 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 58 | 13 | 2 | No | 15% | N/A | None | | |
| 22 | Found | Middle Rd | 10/21/2020 | 07:45 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Walls damaged | Cast Iron | Cast Iron | Brick | Brick | N/A | N/A | Good | Good | Fair | Poor | N/A | N/A | Yes | 52 | 62 | 9 | 10 | Yes | FULL | N/A | None | | Walls are masonry block that is in poor condition. Sandy bottom with no clearly defined sump |
| 24 | Found | 37 Cobleigh Rd | 10/21/2020 | 07:59 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Good | Good | N/A | Good | Yes | 57 | 72 | 38 | 15 | No | 39% | N/A | None | | Invert is chipped and deteriorating |
| 25 | Found | Cobleigh Rd | 10/21/2020 | 07:59 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 60 | 69 | 29 | 9 | No | 31% | N/A | None | | |
| 26 | Found | Cobleigh Rd | 10/21/2020 | 08:04 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | N/A | Good | Good | Fair | Good | N/A | N/A | Yes | 61 | 68 | 23 | 7 | No | 30% | N/A | None | | |
| 27 | Found | Cobleigh Rd | 10/21/2020 | 08:03 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 57 | 64 | 28 | 7 | No | 25% | N/A | None | | |
| 28 | Found | 86 Cobleigh Rd | 10/21/2020 | 08:07 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 60 | 67 | 25 | 7 | No | 28% | N/A | None | | Bricks are concrete masonry |
| 29 | Found | Cobleigh Rd | 10/21/2020 | 08:10 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 58 | 65 | | 7 | No | 0% | N/A | None | | Appears to be a leaching catch basin |
| 30 | Found | Cobleigh Rd | 10/21/2020 | 08:13 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 55 | 73 | 27 | 18 | Yes | 67% | N/A | None | | Bricks are concrete masonry |
| 31 | Found | Depot Rd | 10/21/2020 | 08:19 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 43 | 52 | 18 | 9 | No | 50% | N/A | None | | |
| 32 | Found | Depot Rd | 10/21/2020 | 08:24 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 68 | 75 | 32 | 7 | No | 22% | N/A | None | | |
| 33 | Found | 299 Depot Rd | 10/21/2020 | 08:23 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 61 | 69 | 29 | 8 | No | 28% | N/A | None | | |
| 34 | Found | Depot Rd | 10/21/2020 | 08:29 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 86 | 30 | 17 | Yes | 57% | N/A | None | | |
| 35 | Found | 10 Emmanuel Dr | 10/21/2020 | 08:35 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 54 | 82 | 36 | 28 | Yes | 78% | Unlikely | Odor | Smell of decay | |
| 36 | Found | 66 Emanuel Dr | 10/21/2020 | 08:37 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 62 | 77 | 35 | 15 | No | 43% | N/A | Color, Turbidity | | |
| 37 | Found | 97 Emanuel Dr | 10/21/2020 | 08:43 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 85 | 29 | 22 | Yes | 76% | N/A | None | | |
| 38 | Found | 133 Emanuel Dr | 10/21/2020 | 08:47 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 71 | 81 | 26 | 10 | No | 38% | N/A | Odor | Smell of decay | |
| 39 | Found | 151 Emanuel Dr | 10/21/2020 | 08:52 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 104 | 112 | 50 | 8 | No | 16% | N/A | None | | |
| 40 | Found | Emanuel Dr | 10/21/2020 | 08:57 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 91 | 99 | 48 | 8 | No | 17% | Unlikely | Odor | Smell of decay | |
| 41 | Found | Emanuel Dr | 10/21/2020 | 09:01 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 114 | 117 | 48 | 3 | No | 6% | N/A | None | | |
| 42 | Found | 266 Joseph Rd | 10/21/2020 | 09:06 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 50 | 78 | 32 | 28 | Yes | 88% | Yes | Sewage Odor | Oily sheen observed on removed soil | Opening is offset from barrel, unable to fully clean |
| 43 | Found | 280 Joseph Rd | 10/21/2020 | 09:16 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 80 | 37 | 24 | Yes | 65% | N/A | Color, Turbidity | | |
| 44 | Found | Joseph Rd | 10/21/2020 | 09:22 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 58 | 77 | 39 | 19 | No | 49% | N/A | None | | |
| 45 | Found | 220 Joseph Rd | 10/21/2020 | 09:28 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 67 | 75 | 31 | 8 | No | 26% | N/A | None | | |
| 46 | Found | 201 Joseph Rd | 10/21/2020 | 09:32 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 76 | 41 | 12 | No | 29% | N/A | None | | |
| 47 | Found | 136 Joseph Rd | 10/21/2020 | 09:36 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 102 | 109 | 32 | 7 | No | 22% | N/A | None | | |
| 48 | Found | Joseph Rd | 10/21/2020 | 09:37 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 68 | 81 | 35 | 13 | No | 37% | N/A | None | | |
| 50 | Found | Joseph Rd | 10/21/2020 | 09:50 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 60 | 75 | 33 | 15 | No | 45% | Unlikely | Odor | Smell of decay | |
| 51 | Found | Joseph Rd | 10/21/2020 | 09:46 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 67 | 81 | 36 | 14 | No | 39% | N/A | None | | |
| 52 | Found | 35 Joseph Rd | 10/21/2020 | 09:56 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 86 | 30 | 15 | No | 50% | Yes | Petroleum Odor,Sewage Odor | Sewage smell | Loose bricks in sump |
| 53 | Found | Joseph Rd | 10/21/2020 | 10:03 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | N/A | N/A | Good | Yes | 57 | 71 | 25 | 14 | Yes | 56% | N/A | None | | |
| 54 | Found | 136 Joseph Rd | 10/21/2020 | 10:06 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 94 | 95 | 13 | 1 | No | 8% | Unlikely | Odor | Smell of decay | |
| 55 | Found | 152 Joseph Rd | 10/21/2020 | 10:49 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 93 | 33 | 9 | No | 27% | Unlikely | Odor | Smell of decay | |
| 56 | Found | 124 Joseph Rd | 10/21/2020 | 10:53 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 61 | 72 | 34 | 11 | No | 32% | Unlikely | Odor,Color (grey),Color (cloudy) | Turbid and smells like decay | Loose blocks in sump |
| 57 | Found | Joseph Rd | 10/21/2020 | 10:56 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 51 | 71 | 36 | 20 | Yes | 56% | N/A | None | | |
| 58 | Found | Joseph Rd | 10/21/2020 | 10:57 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Good | Good | N/A | Good | Yes | 51 | 71 | 33 | 20 | Yes | 61% | Yes | Sewage Odor,Floatables - Suds,Floatables - Oil Sheen | | |
| 59 | Found | 207 Joseph Rd | 10/21/2020 | 11:06 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 45 | 100 | 56 | 55 | Yes | 98% | N/A | None | | |
| 60 | Found | 299 Joseph Rd | 10/21/2020 | 11:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Good | Yes | 61 | 73 | 25 | 12 | No | 48% | N/A | None | | Catch basin opening offset |
| 61 | Found | Emanuel Dr | 10/21/2020 | 11:25 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 67 | 84 | 29 | 17 | Yes | 59% | N/A | None | | |
| 62 | Found | 166 Emanuel Dr | 10/21/2020 | 11:28 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 80 | 91 | 37 | 11 | No | 30% | N/A | None | | |
| 63 | Found | 78 Emanuel Dr | 10/21/2020 | 11:33 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 77 | 36 | 9 | No | 25% | N/A | None | | |
| 64 | Found | Emanuel Dr | 10/21/2020 | 11:39 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 52 | 55 | 7 | 3 | No | 43% | N/A | None | | |
| 65 | Found | Depot Rd | 10/21/2020 | 11:42 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | Yes | Walls have cracked blocks and pieces have broken off | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Poor | Fair | N/A | Good | Yes | 43 | 55 | 13 | 12 | Yes | 92% | N/A | Floatables - Oil Sheen | | Cement walls are masonry blocks |
| 66 | Found | Depot Rd | 10/27/2020 | 11:20 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Pipe deterioration, loose block | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 78 | 84 | 16 | 6 | No | 38% | N/A | None | | |
| 67 | Found | Davidson Rd at Depot Rd | 10/27/2020 | 11:30 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 77 | 80 | 20 | 3 | No | 15% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Significant degradation of corrugated metal inverts |
| 68 | Found | Davidson Rd | 10/27/2020 | 11:26 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 83 | 83 | 23 | 0 | No | 0% | Unlikely | Floatables - Oil Sheen | Oil sheen likely due to roadway runoff | |
| 69 | Found | Depot Rd | 10/27/2020 | 11:27 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 66 | 74 | 21 | 8 | No | 38% | N/A | None | | |
| 70 | Found | Depot Rd | 10/21/2020 | 11:57 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 53 | 69 | 25 | 16 | Yes | 64% | N/A | Floatables - Oil Sheen,Floatables | | |
| 71 | Found | 646 Depot Rd | 10/21/2020 | 12:03 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 52 | 65 | 19 | 13 | Yes | 68% | N/A | None | | |
| 72 | Found | 667 Depot Rd | 10/21/2020 | 12:08 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 69 | 26 | 9 | No | 35% | N/A | None | | |
| 73 | Found | 685 Depot Rd | 10/21/2020 | 12:12 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 73 | 80 | 28 | 7 | No | 25% | Unlikely | Odor | Smell of decay | |
| 74 | Found | Patch Hill Rd | 10/21/2020 | 12:18 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 77 | 85 | 23 | 8 | No | 35% | N/A | Floatables - Oil Sheen | | |
| 75 | Found | 34 Patch Hill Rd | 10/21/2020 | 12:52 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 68 | 80 | 29 | 12 | No | 41% | N/A | None | | |
| 76 | Found | 55 Patch Hill Rd | 10/21/2020 | 12:55 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 79 | 93 | 22 | 14 | Yes | 64% | Unlikely | Floatables - Oil Sheen,Sewage Odor | | |
| 77 | Found | 65 Patch Hill Rd | 10/21/2020 | 13:00 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 82 | 92 | 30 | 10 | No | 33% | Yes | Color, Turbidity,Floatables - Oil Sheen | Oil sheen | |
| 78 | Found | 113 Patch Hill | 10/21/2020 | 13:03 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 77 | 89 | 30 | 12 | No | 40% | N/A | None | | |
| 79 | Found | 96 Patch Hill Rd | 10/21/2020 | 13:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 87 | 93 | 30 | 6 | No | 20% | N/A | None | | |
| 80 | Found | 80 Patch Hill Rd | 10/21/2020 | 13:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 89 | 24 | 5 | No | 21% | N/A | None | | |
| 81 | Found | 34 Patch Hill Rd | 10/21/2020 | 13:15 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 79 | 88 | 23 | 9 | No | 39% | N/A | None | | |
| 82 | Found | Patch Hill Rd | 10/21/2020 | 13:19 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Walls are chipped and spalled | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 71 | 80 | 24 | 9 | No | 38% | N/A | None | | |
| 83 | Found | Patch Hill Rd | 10/21/2020 | 13:24 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 80 | 26 | 9 | No | 35% | Unlikely | Color (grey),Floatables - Suds | Minimal Floatables - Suds and minor color | |
| 84 | Found | 230 Depot Rd | 10/21/2020 | 13:29 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Excellent | Excellent | N/A | Good | Yes | 55 | 65 | 25 | 10 | No | 40% | N/A | None | | |
| 85 | Found | Prescott Rd | 10/21/2020 | 08:26 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Fair | Fair | N/A | N/A | Yes | 48 | 67 | 22 | 19 | Yes | 86% | N/A | None | | |
| 87 | Found | Depot Rd | 10/21/2020 | 08:39 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 33 | 37 | 9 | 4 | No | 44% | N/A | None | | |
| 88 | Found | Prescott Rd | 10/21/2020 | 08:40 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | No | 40 | 56 | | 16 | No | 0% | N/A | None | | Appears to be a leaching catch basin |
| 89 | Found | Prescott Rd | 10/21/2020 | 08:50 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Good | Fair | N/A | N/A | Yes | 36 | 40 | 5 | 4 | Yes | 80% | N/A | None | | |
| 90 | Found | Prescott Rd | 10/21/2020 | 08:55 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 55 | 66 | 25 | 11 | No | 44% | N/A | None | | |
| 91 | Found | Prescott Rd | 10/21/2020 | 09:01 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 45 | 56 | 19 | 11 | Yes | 58% | N/A | None | | |
| 92 | Found | Prescott Rd | 10/21/2020 | 09:08 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | No | 42 | 52 | 26 | 10 | No | 38% | N/A | None | | |
| 93 | Found | Depot Rd | 10/21/2020 | 09:14 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Fair | Good | N/A | N/A | Yes | 68 | 76 | 55 | 8 | No | 15% | N/A | None | | |
| 94 | Found | Depot Rd | 10/21/2020 | 09:19 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 45 | 49 | 17 | 4 | No | 24% | Unlikely | Floatables - Oil Sheen | Oil sheen is likely from runoff on roadway | |
| 95 | Found | Depot Rd | 10/21/2020 | 09:25 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Concrete | Concrete | Concrete | Concrete | N/A | N/A | Fair | Fair | N/A | Fair | N/A | N/A | Yes | 36 | 60 | 32 | 24 | Yes | 75% | N/A | None | | Loose cover, may need blocks to stabilize |
| 96 | Found | Middle Rd | 10/21/2020 | 13:36 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 54 | 62 | 19 | 8 | No | 42% | N/A | None | | |
| 97 | Found | Boxborough School | 10/21/2020 | 13:40 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 60 | 13 | 4 | No | 31% | Unlikely | Floatables - Suds | | |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 98 | Found | Boxborough Schoolhouse | 10/21/2020 | 13:43 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 62 | 75 | 23 | 13 | Yes | 57% | N/A | None | | |
| 99 | Found | Picnic St | 10/21/2020 | 09:44 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 35 | 78 | 41 | 43 | Yes | FULL | N/A | None | | Large amounts of solidified asphalt removed from catch basin. Likely from recent repaving of roadway |
| 100 | Found | Picnic St | 10/21/2020 | 10:00 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Fair | Fair | N/A | N/A | Yes | 74 | 80 | 18 | 6 | No | 33% | N/A | None | | |
| 101 | Found | Picnic St | 10/21/2020 | 10:47 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 70 | 76 | 15 | 6 | No | 40% | N/A | None | | |
| 102 | Found | Old Orchard Rd | 10/21/2020 | 10:10 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Fair | Fair | N/A | N/A | Yes | 72 | 80 | 20 | 8 | No | 40% | N/A | None | | |
| 103 | Found | Old Orchard Rd | 10/21/2020 | 10:16 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 44 | 58 | 22 | 14 | Yes | 64% | N/A | None | | Partially open bottom. |
| 104 | Found | Picnic St | 10/21/2020 | 10:54 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 61 | 70 | 26 | 9 | No | 35% | Unlikely | Floatables - Oil Sheen | Minimal oil sheen, likely from roadway | |
| 105 | Found | Avebury Cir | 10/21/2020 | 10:59 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 73 | 20 | 8 | No | 40% | N/A | None | | |
| 106 | Found | Avebury Cir | 10/21/2020 | 11:07 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 70 | 76 | 28 | 6 | No | 21% | N/A | None | | |
| 107 | Found | Avebury Cir | 10/21/2020 | 11:10 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 69 | 12 | 6 | No | 50% | N/A | None | | |
| 108 | Found | Avebury Cir | 10/21/2020 | 11:14 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 72 | 26 | 4 | No | 15% | Unlikely | Floatables - Oil Sheen | Minimal oil sheen | |
| 109 | Found | Avebury Cir | 10/21/2020 | 11:19 | Light Rain | Ditch | Grass/Dirt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 66 | 24 | 2 | No | 8% | N/A | None | | |
| 110 | Found | Avebury Cir | 10/21/2020 | 11:23 | Light Rain | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 74 | 21 | 11 | Yes | 52% | N/A | None | | |
| 111 | Found | Avebury Cir | 10/21/2020 | 11:28 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 57 | 67 | 24 | 10 | No | 42% | Unlikely | Floatables - Oil Sheen | Minimal oil sheen | |
| 112 | Found | Avebury Cir | 10/21/2020 | 11:32 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 62 | 64 | 12 | 2 | No | 17% | N/A | None | | |
| 113 | Found | Avebury Cir | 10/21/2020 | 11:35 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 60 | 66 | 18 | 6 | No | 33% | N/A | None | | |
| 114 | Found | Avebury Cir | 10/21/2020 | 11:40 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 60 | 65 | 11 | 5 | No | 45% | N/A | None | | |
| 115 | Found | Picnic St | 10/21/2020 | 11:51 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Fair | Good | N/A | N/A | Yes | 74 | 72 | | 2 | No | 0% | Unlikely | Floatables - Oil Sheen | Minimal oil sheen | No visible outlet pipe |
| 116 | Found | Picnic St | 10/21/2020 | 11:55 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 76 | 79 | 21 | 3 | No | 14% | N/A | None | | |
| 117 | Found | Avebury Cir | 10/21/2020 | 11:46 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 74 | 17 | 6 | No | 35% | N/A | None | | |
| 118 | Found | Picnic St | 10/21/2020 | 11:59 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 76 | 80 | 23 | 4 | No | 17% | N/A | None | | |
| 119 | Found | Hill Rd | 10/21/2020 | 12:31 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 67 | 74 | | 7 | No | 0% | N/A | None | | No visible outlet pipe |
| 120 | Found | Hill Rd | 10/21/2020 | 12:38 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 46 | 55 | | 9 | No | 0% | N/A | None | | No visible outlet pipe |
| 121 | Found | Tokatawan Spring Ln | 10/21/2020 | 12:42 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | Fiberglass | Concrete | Good | Good | Fair | Good | Good | Good | Yes | 65 | 71 | 24 | 6 | No | 25% | N/A | None | | HDPE corrugated outlet and hood pipes |
| 122 | Found | Tokatawan Spring Ln | 10/21/2020 | 12:47 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Poor | Good | N/A | Good | No | 55 | 60 | | 5 | No | 0% | N/A | None | | No visible outlet pipe |
| 123 | Found | Tokatawan Spring Ln | 10/21/2020 | 12:50 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | Fiberglass | Concrete | Good | Good | Good | Good | Good | Good | Yes | 63 | 66 | 27 | 3 | No | 11% | N/A | Trash | | Corrugated HDPE hood and outlet pipe |
| 124 | Found | Tokatawan Spring Ln | 10/21/2020 | 12:54 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | Fiberglass | Concrete | Good | Good | Fair | Good | Good | Good | Yes | 70 | 75 | 35 | 5 | No | 14% | N/A | None | | HDPE corrugated outlet and hood pipes |
| 125 | Found | Tokatawan Spring Ln | 10/21/2020 | 12:58 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 49 | 61 | 18 | 12 | Yes | 67% | Unlikely | Floatables - Oil Sheen | Minimal oil sheen likely from roadway | |
| 126 | Found | Tokatawan Spring Ln | 10/21/2020 | 13:03 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 49 | 59 | 18 | 10 | Yes | 56% | N/A | None | | |
| 127 | Found | Tokatawan Spring Ln | 10/21/2020 | 13:09 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 54 | 59 | 24 | 5 | No | 21% | N/A | None | | |
| 128 | Found | Tokatawan Spring Ln | 10/21/2020 | 13:11 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 54 | 58 | 20 | 4 | No | 20% | N/A | None | | |
| 129 | Found | Tokatawan Spring Ln | 10/21/2020 | 13:14 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 72 | 76 | 25 | 4 | No | 16% | Yes | Floatables - Oil Sheen | Moderate oil sheen | HDPE corrugated outlet and hood pipes |
| 130 | Found | Tokatawan Spring Ln | 10/21/2020 | 13:19 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 48 | 56 | 17 | 8 | No | 47% | N/A | None | | |
| 131 | Found | Hill Rd | 10/21/2020 | 13:23 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 49 | 55 | | 6 | No | 0% | N/A | None | | Appears to be a leaching catch basin |
| 132 | Found | Hill Rd | 10/21/2020 | 13:28 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 61 | 64 | | 3 | No | 0% | N/A | None | | Appears to be a leaching catch basin |
| 134 | Found | Hill Rd | 10/21/2020 | 13:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 62 | 72 | 18 | 10 | Yes | 56% | N/A | None | | |
| 136 | Found | 1178 Hill Rd | 10/21/2020 | 13:58 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 44 | 64 | 29 | 20 | Yes | 69% | Unlikely | Excessive Sediment | Pile of asphalt and excessive amounts of sediment | |
| 137 | Found | 847 Hill Rd | 10/21/2020 | 14:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 47 | | | | No | 0% | N/A | None | | |
| 138 | Found | School House Lane at Hill Rd | 10/22/2020 | 07:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 80 | 21 | 15 | Yes | 71% | Unlikely | Floatables - Oil Sheen | Slight oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water. | |
| 139 | Found | 75 School House Ln | 10/22/2020 | 07:20 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 75 | 25 | 10 | No | 40% | Unlikely | Floatables - Oil Sheen | Slight oil sheen, likely due to roadway runoff. | |
| 140 | Found | 88 School House Ln | 10/22/2020 | 07:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Brick chimney is a bit shifted, with one side jutting out beneath grate (covered in leaves in photo). These bricks are looser likely due to being in the path of stormwater flow and are at risk of falling from chimney | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Poor | Good | N/A | Good | Yes | 62 | 72 | 27 | 10 | No | 37% | Unlikely | Odor,Floatables - Oil Sheen,Floatables - Suds | Floatables - Suds appeared after cleaning. Slight oil sheen, likely due to roadway runoff. Also a slight odor likely due to anaerobic conditions within sediment below water. | |
| 141 | Found | 121 School House Ln | 10/22/2020 | 07:34 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 54 | 62 | 14 | 8 | Yes | 57% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Significant amount of gravel and sediment removed from catch basin |
| 142 | Found | 121 School House Ln | 10/22/2020 | 07:53 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 62 | 12 | 4 | No | 33% | N/A | None | | Significant amount of sediment and gravel removed from catch basin |
| 143 | Found | 121 School House Ln | 10/22/2020 | 07:49 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 64 | 72 | 32 | 8 | No | 25% | Unlikely | Odor,Floatables - Oil Sheen | Slight oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water. | Some bricks in chimney displaced |
| 144 | Found | 110 School House Lane | 10/22/2020 | 07:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 54 | 71 | 31 | 17 | Yes | 55% | N/A | None | | PVC inlet pipe that appears to originate from adjacent property is damaged (see after photo) |
| 145 | Found | 88 School House Ln | 10/22/2020 | 08:00 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 51 | 64 | 22 | 13 | Yes | 59% | Unlikely | Odor,Floatables - Suds | Odor likely due to anaerobic conditions of sediment beneath water. Floatables - Suds appeared after cleaning | Bricks in chimney are loose and hanging out below grate |
| 146 | Found | 74 School House Lane | 10/22/2020 | 08:05 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 64 | 71 | 21 | 7 | No | 33% | N/A | None | | Some mortar missing between rim and chimney on one side. PVC pipe that seems to originate from adjacent residence is cracked/ broken at invert. |
| 147 | Found | School House Lane at Hill Road | 10/22/2020 | 08:10 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Grate corrosion | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Fair | Good | Good | Good | N/A | Good | Yes | 75 | 84 | 28 | 9 | No | 32% | Unlikely | Floatables - Oil Sheen,Floatables | Slight oil sheen likely from roadway runoff. Some trash floating as well | Grate has significant corrosion with staining present on chimney. |
| 148 | Found | Hill Rd | 10/21/2020 | 14:13 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 83 | 86 | 23 | 3 | No | 13% | Yes | Sewage Odor | | |
| 149 | Found | Barteau Lane | 10/22/2020 | 8:28 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 90 | 32 | 20 | Yes | 63% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Slight oil sheen likely from roadway runoff | Significant amount of sediment removed from catch basin |
| 150 | Found | 130 Barteau Lane | 10/22/2020 | 08:27 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 73 | 94 | 48 | 21 | No | 44% | Unlikely | Floatables - Oil Sheen,Odor | Slight oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water. | |
| 151 | Found | 150 Barteau Lane | 10/22/2020 | 8:42 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | Cast Iron | Concrete | Good | Good | Good | Good | Good | Good | Yes | 66 | 74 | 32 | 8 | No | 25% | Unlikely | Floatables - Suds,Odor,Floatables - Oil Sheen | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning. Odor likely due to anaerobic conditions of sediment beneath water. | Asphalt around grate is cracked and missing a layer |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 152 | Found | 130 Barteau Lane | 10/22/2020 | 08:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 77 | 94 | 48 | 17 | No | 35% | Unlikely | Floatables - Oil Sheen,Floatables - Suds,Petroleum Odor | Oil sheen likely from roadway runoff but present in significant amounts and emitting an odor. Floatables - Suds appeared after cleaning. | |
| 153 | Found | 40 Barteau Lane | 10/22/2020 | 08:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Hood detached from pipe | Cast Iron | Cast Iron | Brick | Concrete | Cast Iron | Concrete | Good | Good | Good | Good | Fair | Good | Yes | 78 | 88 | 44 | 10 | No | 23% | Unlikely | Odor,Petroleum Odor,Floatables - Oil Sheen | Oil sheen likely from roadway runoff but present in significant amounts and emitting an odor | Hood is not fully affixed to pipe and is slightly askew, leaving a small gap between hood and invert |
| 154 | Found | E Whitcomb Rd | 10/22/2020 | 08:57 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 72 | 21 | 14 | Yes | 67% | Unlikely | Floatables - Suds,Floatables - Oil Sheen | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning | |
| 155 | Found | Swanson Rd | 10/22/2020 | 07:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 75 | 89 | 65 | 14 | No | 22% | N/A | None | | |
| 156 | Found | Swanson Rd | 10/22/2020 | 07:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | | | | Good | Good | Good | | | | Yes | 54 | 61 | 42 | 7 | No | 17% | N/A | None | | Large amount of standing water in catch basin. Could not fully assess |
| 157 | Found | Swanson Rd | 10/22/2020 | 07:13 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | | | | | Good | Good | | | | | Yes | 33 | 46 | | 13 | No | 0% | N/A | None | | Large amount of standing water in catch basin. Could not fully assess |
| 158 | Found | Swanson Rd | 10/22/2020 | 08:12 | Dry | Other | Grass/Dirt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 66 | 70 | 34 | 4 | No | 12% | N/A | None | | Second grate placed vertically on the side of catch basin |
| 159 | Found | Swanson Rd | 10/22/2020 | 08:16 | Dry | Driveway | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 51 | 62 | 30 | 11 | No | 37% | Unlikely | Trash | Small amount of trash | |
| 160 | Found | Codman Hill Rd | 10/27/2020 | 15:40 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 50 | 63 | 27 | 13 | No | 48% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Both inverts were partially submerged at time of inspection |
| 161 | Found | Codman Hill Rd | 10/27/2020 | 14:51 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 71 | 39 | 8 | No | 21% | N/A | None | | |
| 162 | Found | Codman Hill Rd | 10/27/2020 | 14:56 | Dry | Road/Curb | Gravel | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 35 | 58 | | 23 | No | 0% | N/A | None | | No visible outlet pipe |
| 163 | Found | Codman Hill Rd | 10/27/2020 | 15:13 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 55 | 65 | 20 | 10 | No | 50% | N/A | None | | |
| 167 | Found | 44 Robinson Rd | 10/22/2020 | 11:53 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Grate and frame corrosion | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Fair | Fair | Good | Good | N/A | Good | Yes | 58 | 70 | 22 | 12 | Yes | 55% | Unlikely | Floatables - Oil Sheen,Odor | Oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water | Grate and frame significantly corroded |
| 168 | Found | Robinson Rd | 10/22/2020 | 11:57 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 76 | 22 | 7 | No | 32% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 169 | Found | Robinson Rd | 10/22/2020 | 12:08 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 70 | 20 | 10 | No | 50% | Unlikely | Floatables - Oil Sheen,Odor | Oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water | |
| 170 | Found | Robinson Rd | 10/22/2020 | 12:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | | 92 | 98 | 24 | 6 | No | 25% | Yes | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 171 | Found | Robinson Rd | 10/22/2020 | 12:33 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 77 | 15 | 6 | No | 40% | Unlikely | Floatables - Oil Sheen,Odor | Oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water | |
| 172 | Found | 175 Robinson Rd | 10/22/2020 | 12:37 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 65 | 5 | 2 | No | 40% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 173 | Found | Robinson Rd | 10/22/2020 | 12:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 77 | 35 | 5 | No | 14% | N/A | None | | |
| 174 | Found | Robinson Rd | 10/22/2020 | 12:40 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 75 | 23 | 5 | No | 22% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 175 | Found | Robinson Rd | 10/22/2020 | 12:45 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 75 | 77 | 35 | 2 | No | 6% | N/A | None | | |
| 176 | Found | Robinson Rd | 10/22/2020 | 12:47 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 81 | 23 | 11 | No | 48% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 177 | Found | Robinson Rd | 10/22/2020 | 12:47 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 84 | 84 | 36 | 0 | No | 0% | N/A | None | | |
| 178 | Found | Robinson Rd at Houghton Ln | 10/22/2020 | 12:50 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 73 | 80 | 25 | 7 | No | 28% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 179 | Found | Robinson Rd | 10/22/2020 | 12:50 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 67 | 72 | 36 | 5 | No | 14% | Unlikely | Sewage Odor | Slight sewage odor | |
| 180 | Found | Robinson Rd | 10/22/2020 | 12:54 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Excellent | Good | N/A | Good | Yes | 65 | 74 | 22 | 9 | No | 41% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | Catch basin appears to have been rehabilitated recently |
| 181 | Found | Robinson Rd | 10/22/2020 | 12:54 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 72 | 77 | 37 | 5 | No | 14% | N/A | None | | |
| 182 | Found | Robinson Rd | 10/22/2020 | 12:57 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 78 | 80 | 44 | 2 | No | 5% | N/A | None | | |
| 183 | Found | Robinson Rd at Old Harvard Rd | 10/22/2020 | 13:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 68 | 20 | 10 | No | 50% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 184 | Found | Old Harvard Rd at Robinson Rd | 10/22/2020 | 9:14 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Grate and frame corrosion. Loose chimney bricks | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Fair | Fair | Fair | Good | N/A | Good | Yes | 56 | 69 | 19 | 13 | Yes | 68% | Unlikely | Floatables - Oil Sheen,Floatables - Suds | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning | Grate and frame are significantly corroded with staining on chimney. Loose bricks in chimney |
| 185 | Found | Robinson Rd | 10/22/2020 | 09:15 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 73 | 77 | 23 | 4 | No | 17% | Unlikely | Floatables - Suds,Odor,Floatables - Oil Sheen | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning. Odor likely due to anaerobic conditions of sediment beneath water. | |
| 186 | Found | Robinson Rd | 10/22/2020 | 09:21 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Concrete | Cast Iron | Brick | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Good | N/A | Good | Yes | 74 | 80 | 32 | 6 | No | 19% | Unlikely | Floatables - Suds,Floatables - Oil Sheen | Oil sheen likely from roadway runoff, Floatables - Suds appeared after cleaning. | Catch basin recently rehabilitated |
| 187 | Found | Steele Lane at Robinson Rd | 10/22/2020 | 09:55 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 80 | 28 | 9 | No | 32% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 188 | Found | 53 Steele Ln | 10/22/2020 | 10:02 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 73 | 25 | 17 | Yes | 68% | Unlikely | Odor,Floatables - Suds,Floatables - Oil Sheen | Oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water. Floatables - Suds also present prior to cleaning | |
| 189 | Found | 87 Steele Lane | 10/22/2020 | 10:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 74 | 22 | 5 | No | 23% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 190 | Found | 106 Steele Lane | 10/22/2020 | 10:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Excellent | Good | N/A | Good | Yes | 60 | 75 | 25 | 15 | Yes | 60% | Unlikely | Floatables - Oil Sheen,Floatables - Suds | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning | Grate and chimney appear to have been recently rehabilitated |
| 191 | Found | 119 Steele Lane | 10/22/2020 | 10:17 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 66 | 22 | 3 | No | 14% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 192 | Found | 114 Steele Lane | 10/22/2020 | 10:21 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 64 | 73 | 19 | 9 | No | 47% | Unlikely | Floatables - Oil Sheen,Floatables - Suds | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning | Some loss of mortar in chimney |
| 193 | Found | 68 Steele Lane | 10/22/2020 | 10:26 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 66 | 74 | 16 | 8 | No | 50% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 194 | Found | 53 Steele Lane | 10/22/2020 | 10:31 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 70 | 22 | 10 | No | 45% | Unlikely | Floatables,Floatables - Suds | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning | |
| 195 | Found | Steele Lane at Robinson Rd | 10/22/2020 | 10:34 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 74 | 24 | 9 | No | 38% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 196 | Found | Robinson Rd | 10/22/2020 | 10:03 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 69 | 80 | | 11 | No | 0% | N/A | None | | Could not view outlet pipe |
| 197 | Found | Robinson Rd | 10/22/2020 | 10:06 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 84 | 88 | 40 | 4 | No | 10% | N/A | None | | |
| 198 | Found | Robinson Rd | 10/22/2020 | 10:10 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 72 | 40 | 4 | No | 10% | N/A | None | | |
| 199 | Found | Houghton Ln | 10/22/2020 | 10:12 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 76 | 86 | 42 | 10 | No | 24% | Unlikely | Sewage Odor | Slight sewage odor | |
| 200 | Found | Houghton Ln | 10/22/2020 | 10:16 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 90 | 50 | 6 | No | 12% | N/A | None | | |
| 201 | Found | Houghton Ln | 10/22/2020 | 10:18 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 75 | 90 | 58 | 15 | No | 26% | N/A | None | | |
| 202 | Found | Houghton Ln | 10/22/2020 | 10:22 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 77 | 47 | 5 | No | 11% | Unlikely | Floatables - Oil Sheen | Slight petroleum sheen | |
| 203 | Found | Houghton Ln | 10/22/2020 | 10:26 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 82 | 84 | 48 | 2 | No | 4% | N/A | None | | |
| 204 | Found | Houghton Ln | 10/22/2020 | 10:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 72 | 84 | 60 | 12 | No | 20% | N/A | None | | |
| 205 | Found | Houghton Ln | 10/22/2020 | 10:32 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 80 | 48 | 8 | No | 17% | N/A | None | | |
| 206 | Found | Houghton Ln | 10/22/2020 | 10:36 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 90 | 54 | 6 | No | 11% | Unlikely | Trash | | |
| 207 | Found | Houghton Ln | 10/22/2020 | 10:40 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 84 | 90 | 54 | 6 | No | 11% | N/A | None | | |
| 208 | Found | 303 Robinson Rd | 10/22/2020 | 10:42 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 66 | 70 | 10 | 4 | No | 40% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 209 | Found | Robinson Rd | 10/22/2020 | 10:44 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 74 | 84 | 48 | 10 | No | 21% | N/A | None | | |
| 210 | Found | Robinson Rd | 10/22/2020 | 10:46 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 76 | | 6 | No | 0% | Unlikely | Sewage Odor | Slight sewage odor | Unable to view any pipes |
| 211 | Found | Robinson Rd | 10/22/2020 | 10:49 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 72 | 80 | 44 | 8 | No | 18% | N/A | None | | |
| 212 | Found | Morse Ln at Robinson Rd | 10/22/2020 | 10:47 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 88 | 99 | 25 | 11 | No | 44% | Unlikely | Floatables - Suds,Floatables - Oil Sheen | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning. Multiple pet waste bags also removed | |
| 213 | Found | 40 Morse Ln | 10/22/2020 | 10:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 73 | 84 | 24 | 11 | No | 46% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 214 | Found | Morse Ln | 10/22/2020 | 10:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 70 | 74 | 34 | 4 | No | 12% | N/A | None | | |
| 215 | Found | Morse Ln | 10/22/2020 | 10:54 | Dry | Driveway | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 82 | 84 | 32 | 2 | No | 6% | Unlikely | Floatables - Oil Sheen | Slight petroleum sheen | |
| 216 | Found | 66 Morse Lane | 10/22/2020 | 10:57 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 77 | 20 | 5 | No | 25% | Unlikely | Floatables - Suds,Floatables - Oil Sheen | Oil sheen likely from roadway runoff. Sparse Floatables - Suds/air bubbles present prior to cleaning | |
| 217 | Found | Morse Ln | 10/22/2020 | 10:58 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 71 | 78 | | 7 | No | 0% | N/A | None | | Could not view outlet pipe |
| 218 | Found | Morse Ln at Robinson Rd | 10/22/2020 | 11:00 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 72 | 24 | 3 | No | 13% | Unlikely | Floatables - Oil Sheen,Floatables | Oil sheen likely from roadway runoff. Multiple pet waste bags present | |
| 219 | Found | Robinson Rd | 10/22/2020 | 11:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 74 | 80 | | 6 | No | 0% | N/A | None | | Could not view outlet pipe |
| 220 | Found | Hager Ln | 10/22/2020 | 11:04 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 66 | 74 | 24 | 8 | No | 33% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | Chimney missing a few bricks |
| 221 | Found | Hager Ln | 10/22/2020 | 11:08 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 64 | 70 | 34 | 6 | No | 18% | N/A | None | | |
| 222 | Found | 85 Hager Lane | 10/22/2020 | 11:08 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 72 | 22 | 3 | No | 14% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 223 | Found | Hager Ln | 10/22/2020 | 11:13 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Multiple bricks missing from chimney | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 63 | 74 | 26 | 11 | No | 42% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 224 | Found | Hager Ln | 10/22/2020 | 11:14 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 60 | 64 | 32 | 4 | No | 13% | N/A | None | | Concrete slightly collapsing |
| 225 | Found | Hager Ln | 10/22/2020 | 11:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 64 | 68 | 36 | 4 | No | 11% | N/A | None | | |
| 226 | Found | Hager Ln | 10/22/2020 | 11:17 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 59 | 72 | 24 | 13 | Yes | 54% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 227 | Found | Hager Ln | 10/22/2020 | 11:18 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 100 | 120 | 56 | 20 | No | 36% | N/A | None | | |
| 228 | Found | Hager Ln | 10/22/2020 | 11:21 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 100 | 112 | 32 | 12 | No | 38% | Unlikely | Sewage Odor | Slight sewage odor | |
| 229 | Found | Hager Ln | 10/22/2020 | 11:24 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 66 | 76 | 28 | 10 | No | 36% | Unlikely | Floatables - Oil Sheen,Floatables - Suds | Oil sheen likely from roadway runoff. Floatables - Suds appeared after cleaning | |
| 230 | Found | Robinson Rd | 10/22/2020 | 11:26 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 74 | 75 | 39 | 1 | No | 3% | N/A | None | | |
| 231 | Found | Robinson Rd | 10/22/2020 | 11:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 74 | 34 | 2 | No | 6% | N/A | None | | |
| 232 | Found | 175 Robinson Rd | 10/22/2020 | 11:30 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 78 | 20 | 8 | No | 40% | Unlikely | Floatables - Oil Sheen,Odor | Oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water | |
| 233 | Found | Robinson Rd | 10/22/2020 | 11:33 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 70 | 31 | 5 | No | 16% | N/A | None | | |
| 234 | Found | 119 Robinson Rd | 10/22/2020 | 11:34 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 76 | 20 | 5 | No | 25% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 235 | Found | 89 Robinson Rd | 10/22/2020 | 11:39 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 78 | 22 | 9 | No | 41% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 236 | Found | Robinson Rd | 10/22/2020 | 11:43 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 78 | 22 | 6 | No | 27% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 237 | Found | Robinson Rd | 10/22/2020 | 11:47 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 66 | 76 | 20 | 10 | No | 50% | Unlikely | Floatables - Oil Sheen,Odor | Oil sheen likely from roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water | |
| 238 | Found | May Fair Dr | 10/22/2020 | 13:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 81 | 85 | 45 | 4 | No | 9% | N/A | None | | |
| 239 | Found | May Fair Dr | 10/22/2020 | 13:06 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 64 | 72 | 40 | 8 | No | 20% | N/A | None | | |
| 240 | Found | May Fair Dr | 10/22/2020 | 13:08 | Dry | Driveway | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 74 | 38 | 3 | No | 8% | N/A | None | | |
| 241 | Found | May Fair Dr | 10/22/2020 | 13:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 84 | 48 | 0 | No | 0% | N/A | None | | |
| 242 | Found | May Fair Dr | 10/22/2020 | 13:16 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 84 | 86 | 50 | 2 | No | 4% | N/A | None | | |
| 243 | Found | May Fair Dr | 10/22/2020 | 13:18 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 80 | 48 | 8 | No | 17% | N/A | None | | |
| 244 | Found | May Fair Dr | 10/22/2020 | 13:22 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 72 | 40 | 7 | No | 18% | N/A | None | | |
| 245 | Found | May Fair Dr | 10/22/2020 | 13:25 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 77 | 84 | 52 | 7 | No | 13% | N/A | None | | |
| 246 | Found | May Fair Dr | 10/22/2020 | 13:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 77 | 82 | 46 | 5 | No | 11% | N/A | None | | |
| 247 | Found | May Fair Dr | 10/22/2020 | 13:31 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 74 | 80 | 48 | 6 | No | 13% | N/A | None | | |
| 248 | Found | May Fair Dr | 10/22/2020 | 13:34 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 68 | 86 | 54 | 18 | No | 33% | N/A | None | | |
| 249 | Found | May Fair Dr | 10/22/2020 | 13:36 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 67 | 72 | 36 | 5 | No | 14% | N/A | None | | |
| 250 | Found | May Fair Dr | 10/22/2020 | 13:39 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 54 | 72 | 36 | 18 | No | 50% | N/A | None | | |
| 251 | Found | May Fair Dr | 10/22/2020 | 13:42 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 75 | 76 | 40 | 1 | No | 3% | N/A | None | | |
| 252 | Found | Pierce Ln | 10/22/2020 | 08:58 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 63 | 71 | 39 | 8 | No | 21% | N/A | None | | Small cracks in concrete |
| 253 | Found | Pierce Ln | 10/22/2020 | 09:02 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 68 | 74 | 44 | 6 | No | 14% | N/A | None | | |
| 254 | Found | Pierce Ln | 10/22/2020 | 09:05 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 65 | 45 | 1 | No | 2% | N/A | None | | |
| 255 | Found | Pierce Ln | 10/22/2020 | 09:08 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 70 | 40 | 10 | No | 25% | Unlikely | Sewage Odor | Slight sewage odor | |
| 256 | Found | Coolidge Farm Rd | 10/22/2020 | 09:12 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 77 | 84 | 44 | 7 | No | 16% | N/A | None | | |
| 258 | Found | Coolidge Farm Rd | 10/22/2020 | 09:16 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 72 | 46 | 2 | No | 4% | N/A | None | | |
| 259 | Found | Coolidge Farm Rd | 10/22/2020 | 09:18 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 53 | 66 | 36 | 13 | No | 36% | Unlikely | Sewage Odor | Slight sewage odor | |
| 260 | Found | Coolidge Farm Rd | 10/22/2020 | 09:22 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 58 | 72 | 42 | 14 | No | 33% | N/A | None | | |
| 261 | Found | Coolidge Farm Rd | 10/22/2020 | 09:25 | Dry | Driveway | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 68 | 77 | 43 | 9 | No | 21% | N/A | None | | |
| 262 | Found | Whitney Ln | 10/22/2020 | 09:30 | Dry | Driveway | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 69 | 77 | 41 | 8 | No | 20% | N/A | None | | |
| 263 | Found | Whitney Ln | 10/22/2020 | 09:32 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 72 | 38 | 8 | No | 21% | Unlikely | Sewage Odor | Slight sewage odor | |
| 264 | Found | Whitney Ln | 10/22/2020 | 09:37 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 67 | 82 | | 15 | No | 0% | Unlikely | Petroleum Odor | Slight petroleum odor | Unable to view any pipes |
| 265 | Found | Coolidge Farm Rd | 10/22/2020 | 09:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 65 | 72 | 40 | 7 | No | 18% | N/A | None | | |
| 266 | Found | Pierce Ln | 10/22/2020 | 09:45 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 61 | 64 | 34 | 3 | No | 9% | N/A | None | | Some bricks crumbling/missing |
| 267 | Found | Pierce Ln | 10/22/2020 | 09:48 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 48 | 58 | 42 | 10 | No | 24% | Unlikely | Sewage Odor | Slight sewage odor | |
| 268 | Found | Pierce Ln | 10/22/2020 | 09:51 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 72 | 40 | 8 | No | 20% | N/A | None | | |
| 269 | Found | Pierce Ln | 10/22/2020 | 09:54 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 44 | 50 | 30 | 6 | No | 20% | N/A | None | | |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 271 | Found | 67 Chester Rd | 10/22/2020 | 13:10 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 81 | 92 | 18 | 11 | Yes | 61% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 272 | Found | 62 Chester Rd | 10/22/2020 | 13:16 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 72 | 24 | 16 | Yes | 67% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 273 | Found | 67 Chester Rd | 10/22/2020 | 13:25 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 52 | 79 | 35 | 27 | Yes | 77% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 274 | Found | Burroughs Rd | 10/22/2020 | 13:36 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 84 | 36 | 16 | No | 44% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 275 | Found | Burroughs Rd | 10/22/2020 | 13:42 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 78 | 24 | 8 | No | 33% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 276 | Found | Stow Rd at Burroughs Rd | 10/22/2020 | 13:51 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 56 | 72 | 20 | 16 | Yes | 80% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Some bricks missing or displaced within chimney and walls |
| 277 | Found | Burroughs Rd | 10/22/2020 | 13:58 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 62 | 72 | 24 | 10 | No | 42% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 278 | Found | Burroughs Rd | 10/22/2020 | 14:02 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 69 | 88 | 46 | 19 | No | 41% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Some bricks in wall are shifted slightly and chipped |
| 279 | Found | 594 Burroughs Rd | 10/23/2020 | 07:18 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 65 | 76 | 19 | 11 | Yes | 58% | N/A | None | | |
| 280 | Found | 607 Burroughs Rd | 10/23/2020 | 07:24 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 41 | 53 | 33 | 12 | No | 36% | N/A | None | | |
| 282 | Found | Priest Ln | 10/23/2020 | 07:30 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Excellent | Excellent | N/A | Good | Yes | 96 | 109 | 21 | 13 | Yes | 62% | N/A | None | | |
| 283 | Found | 15 Priest Ln | 10/23/2020 | 07:34 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Excellent | Excellent | N/A | Good | Yes | 86 | 97 | 52 | 11 | No | 21% | N/A | Floatables - Suds | | |
| 284 | Found | 36 Priest Ln | 10/23/2020 | 07:39 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 86 | 96 | 42 | 10 | No | 24% | N/A | None | | |
| 285 | Found | 82 Priest Ln | 10/23/2020 | 07:46 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | Aluminum | Concrete | Excellent | Excellent | Excellent | Excellent | Good | Good | Yes | 82 | 97 | 46 | 15 | No | 33% | Yes | Floatables - Oil Sheen | | |
| 286 | Found | 68 Priest Ln | 10/23/2020 | 07:49 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Excellent | Good | Good | Good | N/A | Good | Yes | 84 | 96 | 44 | 12 | No | 27% | Unlikely | Floatables - Suds,Color (cloudy) | | |
| 287 | Found | Priest Ln | 10/23/2020 | 07:57 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | Cast Iron | Concrete | Good | Good | Excellent | Excellent | Good | Good | Yes | 71 | 83 | 31 | 12 | No | 39% | N/A | None | | |
| 288 | Found | Priest Ln | 10/23/2020 | 08:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 104 | 106 | 49 | 2 | No | 4% | N/A | None | | |
| 289 | Found | Buroughs Rd | 10/23/2020 | 08:04 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 81 | 89 | 31 | 8 | No | 26% | N/A | None | | |
| 290 | Found | Buroughs Rd | 10/23/2020 | 08:09 | Dry | Ditch | Grass/Dirt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 69 | 6 | 6 | Yes | 100% | N/A | None | | No visible outlet. Appears to be a leaching catch basin |
| 291 | Found | Hughes Ln | 10/23/2020 | 08:27 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 80 | 27 | 9 | No | 33% | N/A | None | | Software error caused Before Cleaning Photo to be deleted |
| 292 | Found | Hughes Ln | 10/23/2020 | 08:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 72 | 80 | 29 | 8 | No | 28% | Unlikely | Floatables - Suds,Color (cloudy) | | |
| 293 | Found | 51 Hughs Ln | 10/23/2020 | 08:34 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Excellent | N/A | Good | Yes | 73 | 94 | 21 | 21 | Yes | 100% | Unlikely | Floatables - Oil Sheen | | No visible outlet pipe |
| 294 | Found | 51 Hughs Ln | 10/23/2020 | 08:40 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 73 | 89 | 38 | 16 | No | 42% | Yes | Odor,Sewage Odor | Strong odor of decay, more than usual | |
| 295 | Found | Hughes Ln | 10/23/2020 | 08:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 74 | 13 | 9 | Yes | 69% | N/A | None | | |
| 296 | Found | 58 Hughs Ln | 10/23/2020 | 08:48 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 77 | 82 | 30 | 5 | No | 17% | N/A | Floatables - Suds | | |
| 297 | Found | Hughes Ln | 10/23/2020 | 08:53 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Poor | Good | N/A | Good | Yes | 77 | 85 | 33 | 8 | No | 24% | Yes | Odor | Very pungent smell of decay, close to sewage | |
| 298 | Found | Hughes Ln | 10/23/2020 | 08:59 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Excellent | Excellent | N/A | Excellent | Yes | 71 | 76 | 44 | 5 | No | 11% | N/A | None | | |
| 299 | Found | Hughes Ln | 10/23/2020 | 09:01 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 78 | 88 | 49 | 10 | No | 20% | N/A | None | | |
| 300 | Found | Stow Rd at Burroughs Rd | 10/22/2020 | 13:46 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 78 | 84 | 28 | 6 | No | 21% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 301 | Found | Stow Rd | 10/23/2020 | 09:08 | Dry | Road/Curb | Asphalt | 2x4 | Other | Yes | Broken concrete cover | Concrete | Concrete | Concrete | Concrete | N/A | Concrete | Poor | Good | Good | Good | N/A | Good | Yes | 22 | 36 | 12 | 14 | Yes | 117% | N/A | None | | Concrete block cover fell into catch basin after inspection and was unable to be retrieved. Boxborough DPW was notified immediately |
| 302 | Found | 44 Stow Rd | 10/23/2020 | 09:21 | Dry | Road/Curb | Asphalt | 2x4 | Other | No | | Concrete | Concrete | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 34 | 48 | 14 | 14 | Yes | 100% | Unlikely | Odor | Strong odor of decay | |
| 303 | Found | Tamarack Ln | 10/23/2020 | 09:27 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | Yes | Exposed rebar in chimney and walls | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Poor | Poor | N/A | Fair | Yes | 58 | 68 | 29 | 10 | No | 34% | Yes | Floatables - Oil Sheen | | |
| 304 | Found | Meadow Ln at Tamarack Ln | 10/23/2020 | 09:32 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 62 | 67 | 28 | 5 | No | 18% | Yes | Sewage Odor,Floatables - Suds | | |
| 305 | Found | Meadow Ln | 10/23/2020 | 10:17 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 54 | 63 | 9 | 9 | Yes | 100% | Unlikely | Floatables - Oil Sheen,Floatables - Suds | | No visible outlet pipe |
| 306 | Found | 66 Meadow Ln | 10/23/2020 | 10:20 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 50 | 60 | 10 | 10 | Yes | 100% | N/A | None | | |
| 307 | Found | 91 Meadow Ln | 10/23/2020 | 10:24 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 57 | 61 | 18 | 4 | No | 22% | N/A | None | | |
| 308 | Found | 115 Meadow Ln | 10/23/2020 | 10:28 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Excellent | Excellent | Excellent | Excellent | N/A | Excellent | Yes | 56 | 64 | 23 | 8 | No | 35% | Unlikely | Floatables - Oil Sheen | | |
| 309 | Found | 142 Meadow Ln | 10/23/2020 | 10:32 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 51 | 61 | 17 | 10 | Yes | 59% | N/A | None | | |
| 310 | Found | Meadow Ln | 10/23/2020 | 10:36 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 84 | 41 | 28 | Yes | 68% | Unlikely | Floatables - Suds,Color, Turbidity | | |
| 311 | Found | Meadow Ln | 10/23/2020 | 10:40 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 57 | 61 | 24 | 4 | No | 17% | N/A | None | | |
| 312 | Found | Meadow Ln | 10/23/2020 | 10:45 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 66 | 18 | 8 | No | 44% | N/A | None | | |
| 313 | Found | Meadow Ln | 10/23/2020 | 10:49 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 59 | 64 | 19 | 5 | No | 26% | N/A | None | | |
| 314 | Found | Meadow Ln | 10/23/2020 | 10:55 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 42 | 68 | 38 | 26 | Yes | 68% | N/A | Floatables - Suds | | |
| 315 | Found | Tamarack Ln | 10/23/2020 | 11:01 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 64 | 16 | 4 | No | 25% | N/A | None | | |
| 316 | Found | Tamarack Ln | 10/23/2020 | 11:05 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 72 | 24 | 4 | No | 17% | Unlikely | Floatables - Oil Sheen | | |
| 317 | Found | 153 Tamarack Ln | 10/23/2020 | 11:09 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 61 | 64 | 14 | 3 | No | 21% | N/A | None | | |
| 318 | Found | 189 Tamarack Ln | 10/23/2020 | 11:13 | Dry | Road/Curb | Asphalt | 2x2 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 68 | 14 | 10 | Yes | 71% | N/A | None | | |
| 319 | Found | 189 Tamarack Ln | 10/23/2020 | 11:14 | Dry | Road/Curb | Asphalt | 2x2 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 67 | 21 | 11 | Yes | 52% | Yes | Sewage Odor | | |
| 320 | Found | Tamarack Ln | 10/23/2020 | 11:20 | Dry | Road/Curb | Asphalt | 2x2 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 69 | 21 | 6 | No | 29% | N/A | None | | |
| 321 | Found | 137 Tamarack Ln | 10/23/2020 | 11:22 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 70 | 71 | 22 | 1 | No | 5% | N/A | None | | |
| 322 | Found | 81 Tamarack Ln | 10/23/2020 | 11:27 | Dry | Road/Curb | Asphalt | 2x2 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 57 | 64 | 27 | 7 | No | 26% | N/A | None | | |
| 323 | Found | Tamarack Ln | 10/23/2020 | 11:30 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 65 | 23 | 5 | No | 22% | N/A | None | | |
| 324 | Found | Tamarack Ln | 10/23/2020 | 11:35 | Dry | Road/Curb | Asphalt | 2x2 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 71 | 33 | 11 | No | 33% | N/A | None | | |
| 325 | Found | Fifers Ln | 10/26/2020 | 07:31 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 58 | 68 | 38 | 10 | No | 26% | Unlikely | Petroleum Odor | Slight petroleum odor | |
| 326 | Found | Fifers Ln | 10/26/2020 | 07:10 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 95 | 100 | 38 | 5 | No | 13% | N/A | None | | |
| 327 | Found | Fifers Ln | 10/26/2020 | 07:15 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 82 | 48 | 10 | No | 21% | Unlikely | Sewage Odor | Slight sewage odor | Mapped as two separate catch basins but structure is one catch basin with two grates side by side |
| 328 | Found | Fifers Ln | 10/26/2020 | 07:18 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 88 | 28 | 4 | No | 14% | Unlikely | Petroleum Odor | Slight petroleum odor | |
| 329 | Found | Fifers Ln | 10/26/2020 | 07:34 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 66 | | 3 | No | 0% | Unlikely | Petroleum Odor | Slight petroleum odor | Unable to view any pipes |
| 330 | Found | Flagg Hill Rd | 10/26/2020 | 09:02 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 134 | 142 | 22 | 8 | No | 36% | N/A | None | | |
| 331 | Found | Flagg Hill Rd | 10/26/2020 | 09:04 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 144 | 144 | 24 | 0 | No | 0% | N/A | None | | |
| 332 | Found | Flagg Hill Rd | 10/26/2020 | 09:09 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 74 | 38 | 2 | No | 5% | N/A | None | | |
| 337 | Found | Stow Rd | 10/26/2020 | 09:20 | Light Rain | Ditch | Grass/Dirt | 2x6 | Other | No | | Concrete | Concrete | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 43 | 54 | 26 | 11 | No | 42% | N/A | None | | |
| 338 | Found | Buroughs Rd | 10/26/2020 | 09:26 | Light Rain | Road/Curb | Gravel | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 77 | 82 | 32 | 5 | No | 16% | N/A | None | | |
| 339 | Found | Buroughs Rd | 10/26/2020 | 10:43 | Dry | Ditch | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 36 | 47 | 27 | 11 | No | 41% | N/A | None | | |
| 340 | Found | Buroughs Rd | 10/26/2020 | 10:46 | Dry | Ditch | Gravel | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 64 | 40 | 4 | No | 10% | N/A | None | | |
| 341 | Found | Burroughs Rd | 10/26/2020 | 10:49 | Dry | Ditch | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 50 | 55 | 31 | 5 | No | 16% | Unlikely | Petroleum Odor | Slight petroleum odor | |
| 342 | Found | Buroughs Rd | 10/26/2020 | 10:53 | Dry | Ditch | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 50 | 53 | 31 | 3 | No | 10% | N/A | None | | |
| 343 | Found | Cedarwood Rd | 10/26/2020 | 10:57 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 77 | 84 | 30 | 7 | No | 23% | N/A | None | | |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 344 | Found | Cedarwood Rd | 10/26/2020 | 11:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 60 | 65 | 41 | 5 | No | 12% | Unlikely | Floatables - Oil Sheen,Petroleum Odor | Slight petroleum sheen and odor | |
| 346 | Found | Cedarwood Rd | 10/26/2020 | 11:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 59 | 66 | 36 | 7 | No | 19% | N/A | None | | |
| 347 | Found | Cedarwood Rd | 10/26/2020 | 11:13 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 98 | 104 | 44 | 6 | No | 14% | N/A | None | | |
| 348 | Found | Cedarwood Rd | 10/26/2020 | 11:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 60 | 34 | 4 | No | 12% | N/A | None | | |
| 349 | Found | Cedarwood Rd | 10/26/2020 | 11:17 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 62 | 40 | 6 | No | 15% | N/A | None | | |
| 350 | Found | Cedarwood Rd | 10/26/2020 | 11:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 104 | 108 | 44 | 4 | No | 9% | N/A | None | | |
| 351 | Found | Cedarwood Rd | 10/26/2020 | 11:32 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 45 | 55 | 31 | 10 | No | 32% | Unlikely | Petroleum Odor,Floatables - Oil Sheen | Slight petroleum odor and sheen | |
| 352 | Found | Cedarwood Rd and Burroughs Rd | 10/26/2020 | 11:35 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | | Good | Good | Good | Good | N/A | | Yes | 50 | 60 | 40 | 10 | No | 25% | Unlikely | Floatables - Oil Sheen | | |
| 353 | Found | Burroughs Rd | 10/26/2020 | 11:43 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 46 | 56 | 30 | 10 | No | 33% | N/A | None | | |
| 354 | Found | Pine Hill Rd | 10/26/2020 | 11:46 | Dry | Driveway | Gravel | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 48 | 64 | 30 | 16 | Yes | 53% | N/A | None | | |
| 355 | Found | Pine Hill Rd | 10/26/2020 | 11:51 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 50 | 64 | 28 | 14 | No | 50% | Unlikely | Sewage Odor | Slight sewage odor | |
| 356 | Found | Pine Hill Rd | 10/27/2020 | 07:17 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 59 | 68 | | 9 | No | 0% | N/A | None | | No visible pipes |
| 357 | Found | Stonehedge Pl | 10/26/2020 | 11:57 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 72 | 48 | 4 | No | 8% | N/A | None | | |
| 358 | Found | Stonehedge Pl | 10/26/2020 | 11:59 | Dry | Driveway | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 67 | 76 | 36 | 9 | No | 25% | N/A | None | | |
| 359 | Found | Stonehedge Pl | 10/26/2020 | 12:02 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 72 | 48 | 7 | No | 15% | N/A | None | | |
| 360 | Found | Stonehedge Pl | 10/26/2020 | 12:04 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 90 | 45 | 6 | No | 13% | N/A | None | | |
| 361 | Found | Stonehedge Pl | 10/26/2020 | 12:09 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 80 | 40 | 8 | No | 20% | Unlikely | Floatables - Oil Sheen,Petroleum Odor | | |
| 362 | Found | Stonehedge Pl | 10/26/2020 | 12:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 77 | 45 | 5 | No | 11% | N/A | None | | |
| 363 | Found | Stonehedge Pl | 10/26/2020 | 12:14 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 75 | 82 | 42 | 7 | No | 17% | N/A | None | | |
| 364 | Found | Stonehedge Pl | 10/26/2020 | 12:20 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 72 | 42 | 14 | No | 33% | N/A | None | | |
| 365 | Found | Stonehedge Pl | 10/26/2020 | 12:24 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 80 | 32 | 8 | No | 25% | N/A | None | | |
| 366 | Found | Stonehedge Pl | 10/26/2020 | 12:26 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 74 | 78 | 54 | 4 | No | 7% | N/A | None | | |
| 367 | Found | Pine Hill Rd | 10/27/2020 | 07:20 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 88 | 18 | 4 | No | 22% | N/A | None | | |
| 368 | Found | 42 Pine Hill Rd | 10/27/2020 | 07:18 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 78 | 30 | 20 | Yes | 67% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 369 | Found | 38 Pine Hill Rd | 10/27/2020 | 07:23 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 89 | 92 | 32 | 3 | No | 9% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 370 | Found | 27 Pine Hill Rd | 10/27/2020 | 07:36 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | Yes | Bricks in walls are starting to shift/loosen and are at risk of collapse | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Fair | Poor | N/A | Good | Yes | 51 | 55 | 27 | 4 | No | 15% | Unlikely | Floatables - Oil Sheen | Oil sheen likely from roadway runoff | |
| 371 | Found | 27 Pine Hill Rd | 10/27/2020 | 07:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 57 | 58 | 22 | 1 | No | 5% | N/A | None | | |
| 372 | Found | Pine Hill Rd | 10/27/2020 | 07:27 | Dry | Road/Curb | Asphalt | 2x2 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 40 | 54 | 16 | 14 | Yes | 88% | N/A | None | | |
| 373 | Found | Pine Hill Rd | 10/27/2020 | 07:31 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 68 | 8 | 8 | Yes | 100% | N/A | None | | |
| 374 | Not_Found | Burroughs Rd | 10/27/2020 | 07:59 | Dry | | | | | | | | | | | | | | | | | | | | | | | | No | 0% | | | | Catch basin not found in mapped location |
| 375 | Found | Burroughs Rd | 10/27/2020 | 08:00 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 77 | 84 | 18 | 7 | No | 39% | Unlikely | Floatables - Oil Sheen | Oil sheen likely due to roadway runoff | Some bricks in wall are out of place |
| 376 | Found | Burroughs Rd | 10/27/2020 | 08:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 80 | 93 | 22 | 13 | Yes | 59% | N/A | None | | |
| 377 | Found | Kendall Rd | 10/27/2020 | 07:37 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 62 | 31 | 2 | No | 6% | N/A | None | | |
| 378 | Found | Kendall Rd | 10/27/2020 | 07:38 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 57 | 71 | 19 | 14 | Yes | 74% | N/A | None | | |
| 379 | Found | Kendall Rd | 10/27/2020 | 07:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 66 | 72 | 19 | 6 | No | 32% | N/A | None | | |
| 380 | Found | Kendall Rd | 10/27/2020 | 07:45 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 68 | 84 | 41 | 16 | No | 39% | N/A | None | | |
| 381 | Found | Kendall Rd | 10/27/2020 | 07:50 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 60 | 72 | 20 | 12 | Yes | 60% | N/A | None | | |
| 382 | Found | Kendall Rd | 10/27/2020 | 07:48 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 67 | 25 | 9 | No | 36% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Reinforced concrete pipe invert deteriorating |
| 383 | Found | Kendall Rd | 10/27/2020 | 07:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Reinforced concrete inlet pipe is deteriorating | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 77 | 23 | 8 | No | 35% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | Reinforced concrete pipe inverts deteriorating |
| 384 | Found | Kendall Rd | 10/27/2020 | 07:55 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 66 | 42 | 10 | No | 24% | N/A | None | | |
| 385 | Found | Summer Rd | 10/27/2020 | 08:38 | Dry | Ditch | Grass/Dirt | 2x2 | Double Square | No | | Concrete | Concrete | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 42 | 54 | 22 | 12 | Yes | 55% | N/A | None | | Block basin |
| 386 | Found | Pine Pasture Run at Summer Rd | 10/27/2020 | 08:59 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 46 | 74 | 26 | 28 | Yes | FULL | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Significant amounts of sand/sediment |
| 387 | Found | Pine Pasture Run | 10/27/2020 | 08:44 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Bricks falling out of chimney | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 82 | 91 | 31 | 9 | No | 29% | N/A | None | | |
| 388 | Found | Pine Pasture Run | 10/27/2020 | 08:49 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Bricks falling out of chimney | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 64 | 77 | 31 | 13 | No | 42% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 389 | Found | Pine Pasture Run | 10/27/2020 | 08:54 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 59 | 67 | 19 | 8 | No | 42% | N/A | None | | |
| 390 | Found | Summer Rd | 10/27/2020 | 08:51 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 30 | 36 | 6 | 6 | Yes | 100% | N/A | None | | |
| 391 | Found | Summer Rd | 10/27/2020 | 08:55 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 40 | 51 | 15 | 11 | Yes | 73% | N/A | None | | |
| 392 | Found | Summer Rd | 10/27/2020 | 09:05 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 92 | 41 | 22 | Yes | 54% | N/A | None | | |
| 393 | Found | Summer Rd | 10/27/2020 | 09:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 68 | 84 | | 16 | No | 19% | N/A | None | | No visible outlet pipe |
| 394 | Found | 35 Reed Farm Rd | 10/27/2020 | 09:44 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 76 | 30 | 12 | No | 40% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 395 | Found | Reed Farm Rd | 10/27/2020 | 09:49 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 70 | 30 | 12 | No | 40% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 396 | Found | Reed Farm Rd | 10/27/2020 | 09:53 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 69 | 24 | 5 | No | 21% | N/A | None | | |
| 397 | Could_Not_A | Reed Farm Rd | 10/27/2020 | 09:53 | Dry | Road/Curb | Asphalt | | | | | | | | | | | | | | | | | | | | | | No | 0% | | | | Catch basin located beneath parked car |
| 399 | Found | Reed Farm Rd | 10/27/2020 | 09:57 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 83 | 86 | 36 | 3 | No | 8% | N/A | None | | |
| 400 | Found | Reed Farm Rd | 10/27/2020 | 09:59 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 83 | 85 | 28 | 2 | No | 7% | N/A | None | | |
| 401 | Found | Reeds Farm Rd | 10/27/2020 | 10:03 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 78 | 30 | 18 | Yes | 60% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 402 | Found | Reed Farm Rd | 10/27/2020 | 10:05 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 67 | 71 | 27 | 4 | No | 15% | N/A | None | | |
| 403 | Found | Reed Farm Rd | 10/27/2020 | 10:08 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 62 | 71 | 25 | 9 | No | 36% | N/A | None | | |
| 404 | Found | Reed Farm Rd | 10/27/2020 | 10:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 72 | 26 | 8 | No | 31% | Unlikely | Floatables - Oil Sheen | | |
| 405 | Found | Blanchard Rd at Reed Farm Rd | 10/27/2020 | 10:15 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Frame corrosion | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Fair | Good | Good | N/A | Good | Yes | 67 | 78 | 28 | 11 | No | 39% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Frame is significantly corroded but structural integrity remains |
| 406 | Found | Blanchard Rd | 10/27/2020 | 10:15 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 51 | 58 | 15 | 7 | No | 47% | N/A | None | | |
| 407 | Found | Blanchard Rd | 10/27/2020 | 10:19 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 85 | 45 | 27 | Yes | 60% | N/A | None | | |
| 408 | Found | Blanchard Rd | 10/27/2020 | 10:21 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 59 | 71 | 27 | 12 | No | 44% | N/A | None | | Loose bricks in sump |
| 409 | Found | Blanchard Rd | 10/27/2020 | 10:26 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 53 | 67 | 30 | 14 | No | 47% | Unlikely | Floatables - Oil Sheen | | Loose bricks in sump |
| 410 | Found | Blanchard Rd | 10/27/2020 | 10:30 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 72 | 23 | 8 | No | 35% | N/A | None | | |
| 411 | Found | Inches Brook Lane at Blanchard Rd | 10/27/2020 | 10:19 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 72 | 27 | 2 | No | 7% | Unlikely | Floatables - Oil Sheen | Oil sheen likely due to roadway runoff | |
| 412 | Found | Inches Brook Ln | 10/27/2020 | 10:24 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 57 | 70 | 44 | 13 | No | 30% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water, oil sheen likely due to roadway runoff | Invert not found, measured to water surface |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 413 | Found | 31 Inches Brook Lane | 10/27/2020 | 10:46 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 87 | 96 | 31 | 9 | No | 29% | Yes | Floatables - Oil Sheen | Oil sheen appears to originate from outlet pipe | |
| 414 | Found | 55 Inches Brook Lane | 10/27/2020 | 10:28 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 79 | 34 | 10 | No | 29% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 415 | Found | Inches Brook Lane | 10/27/2020 | 10:33 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Invert deteriorating with significant exposed rebar | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 74 | 40 | 16 | No | 40% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 416 | Found | 26 Inches Brook Ln | 10/27/2020 | 10:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 91 | 35 | 19 | Yes | 54% | N/A | None | | Invert is deteriorating |
| 417 | Found | Inches Brook Lane | 10/27/2020 | 10:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 75 | 87 | 35 | 12 | No | 34% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 418 | Found | Blanchard Rd | 10/27/2020 | 10:36 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 78 | 29 | 13 | No | 45% | N/A | None | | |
| 419 | Found | Blanchard Rd | 10/27/2020 | 10:39 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 69 | 80 | 29 | 11 | No | 38% | N/A | None | | |
| 420 | Found | Reed Farm Rd | 10/27/2020 | 10:44 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 78 | 24 | 8 | No | 33% | Unlikely | Floatables - Oil Sheen | | |
| 421 | Found | Reed Farm Rd | 10/27/2020 | 10:45 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 80 | 25 | 8 | No | 32% | Unlikely | Floatables - Oil Sheen | | |
| 422 | Found | Reed Farm Rd | 10/27/2020 | 10:48 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 76 | 24 | 11 | No | 46% | N/A | None | | |
| 423 | Found | Reed Farm Rd | 10/27/2020 | 10:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 72 | 28 | 8 | No | 29% | Unlikely | Floatables - Oil Sheen | | |
| 424 | Found | Reed Farm Rd | 10/27/2020 | 10:54 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 38 | 63 | 13 | 25 | Yes | 192% | N/A | None | | |
| 425 | Found | Reed Farm Rd | 10/27/2020 | 10:58 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 64 | 73 | 31 | 9 | No | 29% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 426 | Found | Reed Farm Rd | 10/27/2020 | 10:59 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 80 | 88 | 29 | 8 | No | 28% | Unlikely | Petroleum Odor,Floatables - Oil Sheen | | |
| 427 | Found | Reed Farm Rd | 10/27/2020 | 11:02 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 81 | 85 | 25 | 4 | No | 16% | N/A | None | | No visible outlet pipe |
| 428 | Found | Reed Farm Rd | 10/27/2020 | 11:03 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 78 | 85 | 29 | 7 | No | 24% | Unlikely | Floatables - Oil Sheen,Odor | Oil sheen likely due to roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water | |
| 429 | Found | Reed Farm Rd | 10/27/2020 | 11:05 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 80 | 82 | 26 | 2 | No | 8% | N/A | None | | |
| 430 | Found | Reed Farm Rd | 10/27/2020 | 11:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Outlet is deteriorating | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 69 | 21 | 6 | No | 29% | N/A | None | | |
| 431 | Found | Reed Farm Rd | 10/27/2020 | 11:08 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Invert deterioration | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 57 | 67 | 30 | 10 | No | 33% | Unlikely | Odor,Floatables - Oil Sheen | Oil sheen likely due to roadway runoff. Odor likely due to anaerobic conditions of sediment beneath water | Invert significantly deteriorated |
| 432 | Found | Reed Farm Rd | 10/27/2020 | 11:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 66 | 21 | 8 | No | 38% | Unlikely | Floatables - Oil Sheen | | |
| 433 | Found | Liberty Square Rd | 10/27/2020 | 11:13 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 74 | 86 | 28 | 12 | No | 43% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 437 | Found | Nashoba Ave | 10/27/2020 | 13:19 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 63 | 72 | 25 | 9 | No | 36% | N/A | None | | |
| 438 | Found | Nashoba Ave | 10/27/2020 | 13:21 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 47 | 56 | 13 | 9 | Yes | 69% | N/A | None | | |
| 439 | Found | Nashoba Ave | 10/27/2020 | 13:24 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 48 | 48 | 3 | 0 | No | 0% | N/A | None | | |
| 440 | Found | Nashoba Ave | 10/27/2020 | 13:27 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 86 | 28 | 15 | Yes | 54% | N/A | None | | |
| 441 | Found | Nashoba Ave | 10/27/2020 | 13:31 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 76 | 78 | 37 | 2 | No | 5% | N/A | None | | |
| 442 | Found | Nashoba Ave | 10/27/2020 | 13:34 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 74 | 27 | 2 | No | 7% | N/A | None | | |
| 445 | Found | Liberty Square Rd | 10/27/2020 | 11:34 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 71 | 24 | 15 | Yes | 63% | N/A | None | | |
| 446 | Found | 847 Liberty Square Rd | 10/27/2020 | 11:39 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 65 | 75 | 27 | 10 | No | 37% | N/A | None | | |
| 447 | Found | Liberty Square Rd | 10/27/2020 | 11:41 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Structure appears to have been undermined and has loose wall blocks | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Fair | Poor | N/A | Poor | No | 83 | 83 | | | No | 0% | N/A | None | | Walls look undermined, bottom appears to have been dug out about 12" lower than it should have been. Catch basin not cleaned to avoid further undermining |
| 448 | Found | Liberty Square Rd | 10/27/2020 | 11:42 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Significant spalling along wall bricks | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 82 | 90 | 12 | 8 | Yes | 67% | N/A | None | | |
| 449 | Found | Liberty Square Rd at Benjamin Drive | 10/27/2020 | 11:46 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 83 | 87 | 31 | 4 | No | 13% | N/A | None | | |
| 450 | Found | Benjamin Dr | 10/27/2020 | 11:46 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Some missing chimney bricks | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 66 | 78 | 14 | 12 | Yes | 86% | N/A | None | | |
| 451 | Found | Benjamin Dr | 10/27/2020 | 11:49 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 72 | 20 | 0 | No | 0% | N/A | None | | |
| 452 | Found | Benjamin Dr | 10/27/2020 | 11:51 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Chimney cracks | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 71 | 76 | 20 | 5 | No | 25% | N/A | None | | |
| 453 | Found | Benjamin Dr | 10/27/2020 | 11:55 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Some missing chimney blocks | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 68 | 78 | 21 | 10 | No | 48% | N/A | None | | |
| 454 | Found | Liberty Square Rd | 10/27/2020 | 11:50 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Grate corrosion, bricks spalling | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Fair | Good | Fair | Fair | N/A | Good | Yes | 68 | 78 | 30 | 10 | No | 33% | N/A | None | | Grate is corroded on bottom, some spalling in chimney and in brick walls |
| 455 | Found | 949 Liberty Square Rd | 10/27/2020 | 11:56 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Grate corrosion | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Fair | Good | Good | Good | N/A | Good | Yes | 84 | 88 | 18 | 4 | No | 22% | N/A | None | | Grate corroded underneath |
| 456 | Found | Liberty Square Road | 10/27/2020 | 11:59 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Grate corrosion | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Fair | Good | Good | N/A | Good | Yes | 54 | 58 | 16 | 4 | No | 25% | Unlikely | Floatables - Oil Sheen | Oil sheen likely due to roadway runoff | Grate corroded underneath |
| 457 | Found | Waite Rd | 10/27/2020 | 12:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 56 | 70 | 22 | 14 | Yes | 64% | N/A | None | | |
| 459 | Found | 101 Waite Rd | 10/27/2020 | 12:03 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 48 | 63 | 23 | 15 | Yes | 65% | N/A | None | | |
| 460 | Found | 133 Waite Rd | 10/27/2020 | 12:09 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 55 | 75 | 27 | 20 | Yes | 74% | N/A | None | | |
| 461 | Found | 140 Waite Rd | 10/27/2020 | 12:21 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 51 | 71 | 31 | 20 | Yes | 65% | Unlikely | Floatables - Oil Sheen | Oil sheen likely due to roadway runoff | Some spalling and displaced wall bricks |
| 462 | Found | 108 Waite Rd | 10/27/2020 | 12:24 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 53 | 75 | 35 | 22 | Yes | 63% | N/A | None | | |
| 464 | Found | 34 Waite Rd | 10/27/2020 | 12:34 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 59 | 72 | 30 | 13 | No | 43% | N/A | None | | |
| 465 | Found | Liberty Square Rd | 10/27/2020 | 13:10 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 81 | 84 | 21 | 3 | No | 14% | N/A | None | | |
| 466 | Found | Liberty Square Rd | 10/27/2020 | 13:13 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 86 | 91 | 18 | 5 | No | 28% | N/A | None | | |
| 467 | Found | 1155 Liberty Square Rd | 10/27/2020 | 13:14 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 88 | 50 | 4 | No | 8% | N/A | None | | |
| 468 | Found | 1220 Liberty Square Rd | 10/27/2020 | 13:17 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 53 | 68 | 36 | 15 | No | 42% | N/A | None | | |
| 469 | Found | 1155 Liberty Square Rd | 10/27/2020 | 13:24 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 88 | 93 | 61 | 5 | No | 8% | Unlikely | Floatables - Oil Sheen | Oil sheen likely due to roadway runoff | |
| 470 | Found | Liberty Square Rd | 10/27/2020 | 13:27 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Frame corrosion | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Fair | Good | Good | N/A | Good | Yes | 85 | 89 | 23 | 4 | No | 17% | N/A | None | | Frame corroded |
| 471 | Found | 1093 Liberty Square Rd | 10/27/2020 | 13:30 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Frame corrosion | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Fair | Good | Good | N/A | Good | Yes | 73 | 82 | 32 | 9 | No | 28% | Unlikely | Floatables - Oil Sheen | Oil sheen likely due to roadway runoff | Frame corroded |
| 472 | Found | Liberty Square Rd | 10/27/2020 | 13:35 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | Yes | Grate and frame corrosion | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Fair | Fair | Good | Good | N/A | Good | Yes | 50 | 63 | 15 | 13 | Yes | 87% | N/A | None | | Grate and frame corroded |
| 473 | Found | 963 Liberty Square Rd | 10/27/2020 | 13:39 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Grate and frame corrosion | Cast Iron | Cast Iron | Brick | Brick | N/A | N/A | Fair | Fair | Good | Good | N/A | N/A | Yes | 48 | 64 | 16 | 16 | Yes | 100% | N/A | None | | Grate and frame corroded. No clear sump |
| 474 | Found | Liberty Square Rd | 10/27/2020 | 13:45 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Grate and frame corrosion | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Fair | Fair | Good | Good | N/A | Good | Yes | 48 | 72 | 32 | 24 | Yes | 75% | N/A | None | | Grate and frame slightly corroded |
| 475 | Found | Liberty Square Rd | 10/27/2020 | 13:42 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 83 | 90 | | 7 | No | 0% | N/A | None | | No visible outlet pipe |
| 476 | Found | Liberty Square Rd | 10/27/2020 | 13:45 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 86 | 93 | | 7 | No | 0% | N/A | None | | No visible outlet pipe |
| 477 | Found | Liberty Square Rd | 10/27/2020 | 13:49 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 93 | 99 | 36 | 6 | No | 17% | N/A | None | | |
| 478 | Found | 818 Liberty Square Rd | 10/27/2020 | 13:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 77 | 23 | 6 | No | 26% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Invert deteriorating |
| 479 | Found | 804 Liberty Square Rd | 10/27/2020 | 13:56 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 76 | 78 | 26 | 2 | No | 8% | N/A | None | | |
| 480 | Found | Liberty Square Rd | 10/27/2020 | 13:53 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 70 | 77 | 18 | 7 | No | 39% | N/A | None | | |
| 481 | Found | Liberty Square Rd | 10/27/2020 | 13:57 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 65 | 8 | 7 | Yes | 88% | N/A | None | | |
| 482 | Found | Liberty Square Rd | 10/27/2020 | 14:01 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 70 | 79 | 24 | 9 | No | 38% | N/A | None | | |
| 483 | Found | 696 Liberty Square Rd | 10/27/2020 | 13:59 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 59 | 75 | 21 | 16 | Yes | 76% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Reinforced concrete pipe invert deteriorating. |
| 484 | Found | 662 Liberty Square Rd | 10/27/2020 | 14:04 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Frame corrosion | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Fair | Good | Good | N/A | Good | Yes | 60 | 74 | 14 | 14 | Yes | 100% | Unlikely | Odor | Odor likely due to anaerobic conditions of deep sediment | Frame corroded |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | Other Comments: |
| 485 | Found | Liberty Square Rd | 10/27/2020 | 14:04 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 84 | 90 | 5 | 6 | Yes | FULL | N/A | None | | |
| 487 | Found | Boxmill Rd | 10/27/2020 | 14:11 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 43 | 55 | 18 | 12 | Yes | 67% | N/A | None | | |
| 488 | Found | Boxmill Rd | 10/27/2020 | 14:17 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 71 | 88 | 27 | 17 | Yes | 63% | N/A | None | | |
| 489 | Found | Boxmill Rd | 10/27/2020 | 14:23 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 50 | 56 | 8 | 6 | Yes | 75% | N/A | None | | |
| 490 | Found | 127 Box Mill Rd | 10/27/2020 | 14:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 108 | 112 | 34 | 4 | No | 12% | N/A | None | | |
| 493 | Found | Guggins Lane | 10/27/2020 | 14:32 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 82 | 94 | 18 | 12 | Yes | 67% | N/A | None | | |
| 494 | Found | 100 Guggins Lane | 10/27/2020 | 14:33 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 58 | 72 | 26 | 14 | Yes | 54% | Unlikely | Odor | Odor likely caused by anaerobic conditions of sediment beneath water | |
| 495 | Found | Guggins Lane | 10/27/2020 | 14:37 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 102 | 106 | 36 | 4 | No | 11% | N/A | None | | |
| 496 | Found | Guggins Lane at Liberty Square Rd | 10/27/2020 | 14:39 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 48 | 67 | 25 | 19 | Yes | 76% | N/A | None | | Corrugated metal pipes are slightly crushed |
| 497 | Found | Mass Ave at Loring Ave | 10/27/2020 | 08:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Chimney missing a significant amount of bricks | Cast Iron | Cast Iron | Brick | Concrete | Fiberglass | Concrete | Good | Good | Poor | Good | Good | Good | Yes | 57 | 79 | 25 | 22 | Yes | 88% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 498 | Found | Loring Ave | 10/27/2020 | 08:08 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 91 | 94 | 37 | 3 | No | 8% | N/A | None | Large amount of tennis balls in catch basin | |
| 499 | Found | Joyce Ln | 10/27/2020 | 08:12 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 120 | 124 | 27 | 4 | No | 15% | N/A | None | | |
| 500 | Found | Joyce Ln | 10/27/2020 | 08:16 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 125 | 132 | 35 | 7 | No | 20% | N/A | None | | |
| 501 | Found | Joyce Ln | 10/27/2020 | 08:21 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 90 | 44 | 18 | No | 41% | N/A | None | Large amount of tennis balls in catch basin | |
| 502 | Found | Loring Ave | 10/27/2020 | 08:27 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 71 | 82 | 36 | 11 | No | 31% | N/A | None | Large amount of tennis balls in catch basin | |
| 503 | Found | Loring Ave | 10/27/2020 | 08:29 | Dry | Road/Curb | Asphalt | 2x4 | Double Square | Yes | Hood is detached from pipe. Some pieces were removed but replacement is needed | Cast Iron | Cast Iron | Brick | Concrete | Fiberglass | Concrete | Good | Good | Fair | Good | Poor | Good | Yes | 78 | 85 | 31 | 7 | No | 23% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Hood detached from pipe |
| 504 | Could_Not_A | Macleod Way | 10/27/2020 | 08:37 | Dry | Road/Curb | Asphalt | | | | | | | | | | | | | | | | | | | | | | No | 0% | | | | Car parked over catch basin |
| 505 | Could_Not_A | Macleod Way | 10/27/2020 | 08:36 | Dry | Road/Curb | Asphalt | | | | | | | | | | | | | | | | | | | | | | No | 0% | | | | Car parked over catch basin |
| 506 | Found | Loring Ave | 10/27/2020 | 08:16 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | Aluminum | Concrete | Good | Good | Good | Good | Good | Good | Yes | 75 | 92 | 40 | 17 | No | 43% | Unlikely | Floatables - Suds,Odor | Significant amount of trash (plastic and balls/toys) on water surface. Floatables - Suds present upon inspection but their origin is unclear | |
| 507 | Found | Loring Ave | 10/27/2020 | 08:30 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 77 | 95 | 46 | 18 | No | 39% | N/A | None | Large amount of tennis balls in catch basin | |
| 508 | Found | Loring Ave | 10/27/2020 | 08:32 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 80 | 88 | 46 | 8 | No | 17% | N/A | None | | |
| 509 | Found | Summer Rd | 10/27/2020 | 08:44 | Dry | Driveway | Asphalt | 2x2 | Square | Yes | Corner of grate broken off | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Fair | Good | Good | Good | N/A | Good | Yes | 38 | 50 | 24 | 12 | No | 50% | N/A | None | | |
| 510 | Found | Summer Rd at Pine Pasture Run | 10/27/2020 | 08:39 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Bricks falling out of chimney | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 66 | 81 | 33 | 15 | No | 45% | Unlikely | Other,Odor,Floatables - Suds | Dead opossum found in catch basin and is likely responsible for decaying smell. Floatables - Suds are also present | |
| 511 | Found | Windmere Rd | 10/26/2020 | 07:42 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 68 | 70 | 46 | 2 | No | 4% | N/A | None | | |
| 512 | Found | Windmere Rd | 10/26/2020 | 07:45 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 55 | 60 | 40 | 5 | No | 13% | Unlikely | Petroleum Odor | Slight petroleum odor | |
| 513 | Found | Windmere Rd | 10/26/2020 | 07:48 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 70 | 72 | 30 | 2 | No | 7% | N/A | None | | |
| 514 | Found | Windmere Rd | 10/26/2020 | 07:50 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 54 | 70 | 30 | 16 | Yes | 53% | Unlikely | Excessive Sediment | An excessive amount of sediment had to be removed from the catch basin | |
| 515 | Found | Windmere Rd | 10/26/2020 | 07:58 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 60 | 63 | 43 | 3 | No | 7% | N/A | None | | |
| 516 | Found | Windmere Rd | 10/26/2020 | 08:03 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 52 | 72 | 40 | 20 | No | 50% | N/A | None | | |
| 517 | Found | Windmere Rd | 10/26/2020 | 08:08 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 60 | 66 | 38 | 6 | No | 16% | N/A | None | | |
| 518 | Found | Windmere Rd | 10/26/2020 | 08:12 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 80 | 86 | 42 | 6 | No | 14% | N/A | None | | |
| 519 | Found | Windmere Rd | 10/26/2020 | 08:15 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 80 | 84 | 42 | 4 | No | 10% | N/A | None | | |
| 521 | Found | Windmere Rd | 10/26/2020 | 08:18 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 66 | 72 | 36 | 6 | No | 17% | N/A | None | | |
| 522 | Found | Windmere Rd | 10/26/2020 | 08:21 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | No | 76 | 80 | 32 | 4 | No | 13% | N/A | None | | |
| 524 | Found | Windmere Rd | 10/26/2020 | 08:25 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Good | N/A | Good | Yes | 59 | 70 | 26 | 11 | No | 42% | N/A | None | | |
| 525 | Found | Windmere Rd | 10/26/2020 | 08:31 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 48 | 72 | 38 | 24 | Yes | 63% | N/A | None | | |
| 526 | Found | Windmere Rd | 10/26/2020 | 08:39 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 67 | 49 | 4 | No | 8% | Unlikely | Petroleum Odor,Floatables - Oil Sheen | Slight petroleum odor and sheen | |
| 527 | Found | Windmere Rd | 10/26/2020 | 08:43 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Good | Yes | 60 | 61 | 41 | 1 | No | 2% | N/A | None | | |
| 536 | Found | 276 Middle Rd | 10/23/2020 | 09:40 | Dry | Road/Curb | Asphalt | 2x4 | Other | No | | Concrete | Concrete | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 38 | 47 | 15 | 9 | Yes | 60% | N/A | None | | |
| 537 | Found | Guggins Lane at Liberty Square Rd | 10/27/2020 | 14:43 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Concrete pipes are slightly collapsed | Cast Iron | Cast Iron | Brick | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 39 | 66 | 27 | 27 | Yes | 100% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Reinforced concrete pipes slightly collapsed |
| 538 | Found | Guggins Lane | 10/27/2020 | 14:52 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Some spalling and bricks missing from walls | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Fair | N/A | Good | Yes | 58 | 74 | 26 | 16 | Yes | 62% | N/A | None | | |
| 539 | Found | Guggins Lane | 10/27/2020 | 14:56 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Fair | Good | Good | N/A | Good | Yes | 63 | 72 | 26 | 9 | No | 35% | Unlikely | Odor,Floatables - Oil Sheen | Odor likely due to anaerobic conditions of sediment beneath water. Oil sheen likely from roadway runoff | |
| 540 | Found | Guggins Lane | 10/27/2020 | 15:00 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 95 | 98 | 26 | 3 | No | 12% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 541 | Found | Guggins Lane | 10/27/2020 | 15:04 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 63 | 72 | 28 | 9 | No | 32% | Yes | Odor,Petroleum Odor | Very slight petroleum odor. Other odor likely due to anaerobic conditions of sediment beneath water | Reinforced concrete pipe invert deteriorating |
| 542 | Found | Guggins Lane | 10/27/2020 | 14:29 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | N/A | Good | Good | Good | Good | N/A | N/A | Yes | 62 | 68 | 20 | 6 | No | 30% | N/A | None | | |
| 543 | Found | Box Mill Rd | 10/27/2020 | 15:08 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 84 | 20 | 12 | Yes | 60% | N/A | None | | |
| 544 | Found | Box Mill Rd At Liberty Square Rd | 10/27/2020 | 15:13 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 40 | 60 | 23 | 20 | Yes | 87% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 545 | Found | Liberty Square Rd | 10/27/2020 | 15:19 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Brick | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 46 | 60 | 22 | 14 | Yes | 64% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 546 | Found | Library | 10/27/2020 | 12:46 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 72 | 78 | 43 | 6 | No | 14% | N/A | None | | |
| 547 | Found | Library | 10/27/2020 | 12:48 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 88 | 95 | 45 | 7 | No | 16% | N/A | None | | |
| 549 | Found | Library | 10/27/2020 | 12:59 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 94 | 102 | 38 | 8 | No | 21% | N/A | None | | |
| 550 | Found | Library | 10/27/2020 | 13:00 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 73 | 84 | 41 | 11 | No | 27% | N/A | None | | |
| 551 | Found | Sholan Cir | 10/27/2020 | 15:19 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 48 | 64 | 25 | 16 | Yes | 64% | N/A | None | | |
| 552 | Found | Sholan Cir | 10/27/2020 | 15:27 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 44 | 76 | 33 | 32 | Yes | 97% | N/A | None | | |
| 553 | Found | Sholan Cir | 10/27/2020 | 15:40 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 51 | 84 | 33 | 33 | Yes | 100% | N/A | None | | |
| 554 | Found | Sholan Cir | 10/27/2020 | 15:49 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 43 | 55 | 19 | 12 | Yes | 63% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | |
| 555 | Found | Library | 10/27/2020 | 12:53 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 83 | 86 | 15 | 3 | No | 20% | N/A | None | | |
| 157-2 | Found | Swanson Rd | 10/22/2020 | 07:18 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | | Good | Good | Good | Good | N/A | | Yes | 60 | 71 | | 11 | No | 0% | N/A | None | | No visible outlet pipe |

| Inspection Information | | | | | | Catch Basin Information | | | | Catch Basin Condition | | Materials | | | | | | Conditions | | | | | | Sediment Depth (inches) and IDDE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Catch Basin ID | Found? | Street Location | Date | Time | Weather | Location | Surface Type | Grate Size | Grate Shape | CB Damage | Damage Comment | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Grate | Frame | Chimney | Walls | Trap/Hood | Sump | Catch Basin Cleaned? | A. Depth from Rim to Top of Sediment | B. Depth from Rim to Bottom of Basin | C. Sump Depth | D. Depth of Sediment (B-A) | E. More than 50% Full of Sediment? (D/C) | Sediment Percent Full (%) | Illicit Discharge Potential | IDDE Indicators | Indicator Comments/ Potential Source? | **Other Comments:** |
| 21-2 | Found | Middle Rd | 10/21/2020 | 07:46 | Light Rain | Driveway | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 67 | 76 | 12 | 9 | Yes | 75% | N/A | None | | Inlet pipes are about the same depth as the outlet |
| 290-1 | Found | 847 Burroughs Rd | 10/23/2020 | 08:15 | Dry | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Good | Fair | Fair | N/A | Fair | Yes | 27 | 45 | 18 | 18 | Yes | 100% | N/A | None | | Neighbor noted that roadway frequently floods during storms. Catch basin was filled with water during initial inspection. After locating outfall and removing some sediment from outlet water began to slowly drain. May require further action |
| 400-1 | Found | Reed Farm Rd | 10/27/2020 | 10:07 | Dry | Road/Curb | Asphalt | 2x2 | Square | Yes | Frame corrosion | Cast Iron | Cast Iron | Brick | Concrete | N/A | Concrete | Good | Fair | Good | Good | N/A | Good | Yes | 70 | 74 | 26 | 4 | No | 15% | Unlikely | Odor | Odor likely due to anaerobic conditions of sediment beneath water | Frame is significantly corroded but structural integrity seems to be intact |
| 65-1 | Found | Depot Rd | 10/21/2020 | 11:49 | Light Rain | Road/Curb | Asphalt | 2x2 | Square | No | | Cast Iron | Cast Iron | Concrete | Concrete | N/A | Concrete | Good | Good | Good | Good | N/A | Good | Yes | 52 | 68 | 26 | 16 | Yes | 62% | N/A | None | | |

# Appendix E

## Illicit Discharge Potential Results

| Potential Illicit Discharges 2019 and 2020 | | | |
|---|---|---|---|
| Catch Basin ID | Street Location | Comments | IDDE Indicators |
| 35 | Emanuel Drive | W of grate, white PVC pipe feed from that direction. Potential source: house | |
| 38 | Emanuel Drive | White PVC pipes from houses N of grate | |
| 42 | Joseph Road | Oily sheen observed on removed soil | Sewage Odor |
| 43 | Joseph Road | Yellow white foam, sanitary waste / smell, floatables / trash | |
| 52 | Joseph Road | Sewage smell | Sewage Odor |
| 58 | Joseph Road | | Sewage Odor, Floatables - Suds, Flotables - Oil Sheen |
| 77 | Patch Hill Road | Oil sheen | Color, Turbidity, Floatables - Oil Sheen |
| 93 | Depot Road | 2 black pipes, could be rain water though | |
| 110 | Avebury Circle | PVC pipe 52" from rim appears to be coming from house #120 | |
| 122 | Tokatawan Spring | Sanitary waste / smell, black drainage pipe | |
| 129 | Tokatawan Spring | Black drainage pipe horizontal ; Moderate oil sheen | Floatables - Oil Sheen |
| 133 | Hill Road | Black Drainage pipe at 41". Oil sheen | |
| 142 | School House Lane | White PVC pipe at 38" | |
| 148 | Hill Road | | Sewage Odor |
| 151 | Barteau Lane | No sump visible. Cast Iron pipe bent from CB through wall (leading downward) | |
| 170 | Robinson Road | Oil sheen likely from roadway runoff | Floatables - Oil Sheen |
| 171 | Robinson Road | PVC pipe @ 46" | |
| 175 | Robinson Road | PVC pipe @ 57" | |
| 176 | Robinson Road | PVC pipe @ 50" | |
| 178 | Robinson Road | Sanitary waste / smell, PVC pipe @ 45", fiberglass pipe at 52" | |
| 181 | Robinson Road | Sanitary waste / smell, two fiberglass pipes at 49" | |
| 186 | Robinson Road | Fiberglass pipe at 46" | |
| 198 | Robinson Road | PVC pipe at 30" | |
| 199 | Houghton Lane | 53" Black drainage pipe | |
| 209 | Robinson Road | 3 PVC pipes @ 52" | |
| 224 | Hager Lane | PVC pipe @ 38" | |
| 227 | Hager Lane | 4 PVC Pipes @ 49" | |
| 233 | Robinson Road | PVC pipe at 39" | |
| 235 | Robinson Road | PVC pipe lodged with concrete rock @ 45" | |
| 254 | Pierce Lane | Sanitary waste / smell. Black drainage pipe @ 37" | |
| 257 | Coolidge Farm Road | Oil Sheen, PVC pipe @ 55" | |
| 267 | Pierce Lane | 2 black drainage pipes angled up | |
| 279 | Burroughs Road | Oil Sheen. Black drainage pipe @ 49" | |
| 285 | Priest Lane | Floatables / Trash. No visible sump but curved pipe leading upward toward house #82 | Floatables - Oil Sheen |
| 294 | Hughes Lane | Strong odor of decay, more than usual | Sewage Odor |
| 297 | Hughes Lane | Very pungent smell of decay, close to sewage | Odor |
| 299 | Hughes Lane | Black drainage pipe @ 39" | |
| 303 | Tamarack Lane | | Floatables - Oil Sheen |
| 304 | Meadow Lane | | Sewage Odor, Floatables - Suds |
| 314 | Meadow Lane | Sanitary waste / smell, bubbles foaming from runoff | |
| 319 | Tamarack Lane | | Sewage Odor |
| 388 | Pine Pasture Run | Oil sheen. PVC pipe @ 41 " from house #20 direction | |
| 392 | Summer Road | Black drainage pipes @ 50" in direction of complex | |
| 404 | Reed Farm Road | Mild chlorine scent, sanitary waste / smell | |
| 413 | Inches Brook Lane | Oil sheen appears to originate from outlet pipe | Floatables - Oil Sheen |
| 433 | Liberty Square Road | Black drainage pipe @ 43" coming from House #235 direction | |
| 443 | Davidson Road | PVC pipe @ 38" from 7 Osceola Dr direction | |
| 444 | Davidson Road | PVC pipe @ 32' | |
| 483 | Liberty Square Road | Black drainage pipe @ 52" | |
| 519 | Windmere Drive | 3 pipes, 2 concrete 1 fiberglass | |
| 541 | Guggins Lane | Very slight petroleum odor. Other odor likely due to anaerobic conditions of sediment beneath water | Petroleum Odor |

# Appendix F

Catch Basins > 50% Full

| >50% Sump Fullness During Consecutive Years | | | | | | | |
|---|---|---|---|---|---|---|---|
| Catch Basin Info | | Sump Depth (in) | | Sediment Depth (in) | | % Full | |
| ID | Street Location | 2019 | 2020 | 2019 | 2020 | 2019 | 2020 |
| 13 | Swanson Road | | | | 8 | 100% | 100% |
| 16 | Hill Road | | 18 | | 18 | 100% | 100% |
| 17 | Middle Road | 21 | 10 | 17 | 9 | 81% | 90% |
| 18 | Middle Road | 17 | 0 | 9 | 12 | 53% | 100% |
| 19 | Middle Road | 16 | 15 | 14 | 15 | 88% | 100% |
| 34 | Depot Road | 32 | 30 | 27 | 17 | 84% | 57% |
| 37 | Emanuel Drive | 10 | 29 | 8 | 22 | 80% | 76% |
| 53 | Joseph Road | 25 | 25 | 18 | 14 | 72% | 56% |
| 58 | Joseph Road | 30 | 33 | 19 | 20 | 63% | 61% |
| 65 | Depot Road | 19 | 13 | 15 | 12 | 79% | 92% |
| 70 | Depot Road | 17 | 25 | 9 | 16 | 53% | 64% |
| 76 | Patch Hill Road | 13 | 22 | 11 | 14 | 85% | 64% |
| 85 | Prescott Road | 23 | 22 | 18 | 19 | 78% | 86% |
| 89 | Prescott Road | 6 | 5 | 4 | 4 | 67% | 80% |
| 91 | Prescott Road | 19 | 19 | 13 | 11 | 68% | 58% |
| 95 | Middle Road | 32 | 32 | 20 | 24 | 63% | 75% |
| 98 | Middle Road | 22 | 23 | 15 | 13 | 68% | 57% |
| 103 | Old Orchard Road | 16 | 22 | 10 | 14 | 63% | 64% |
| 110 | Avebury Circle | 27 | 21 | 15 | 11 | 56% | 52% |
| 125 | Tokatawan Spring | 23 | 18 | 14 | 12 | 61% | 67% |
| 134 | Hill Road | 27 | 18 | 15 | 10 | 56% | 56% |
| 136 | Hill Road | 23 | 29 | 17 | 20 | 74% | 69% |
| 138 | School House Lane | 30 | 21 | 17 | 15 | 57% | 71% |
| 141 | School House Lane | 7 | 14 | 11 | 8 | 100% | 57% |
| 144 | School House Lane | 6 | 31 | 4 | 17 | 67% | 55% |
| 145 | School House Lane | 23 | 22 | 13 | 13 | 57% | 59% |
| 154 | Whitcomb East | 19 | 21 | 15 | 14 | 79% | 67% |
| 184 | Robinson Road, corner of Old Harvard Road | 18 | 19 | 11 | 13 | 61% | 68% |
| 272 | Chester Road | 20 | 24 | 14 | 16 | 70% | 67% |
| 273 | Chester Road | 30 | 35 | 24 | 27 | 80% | 77% |
| 276 | Burroughs Road | 15 | 20 | 12 | 16 | 80% | 80% |
| 302 | Stow Road | 9 | 14 | 6 | 14 | 67% | 100% |
| 354 | Pine Hill Road | 20 | 30 | 14 | 16 | 70% | 53% |
| 372 | Pine Hill Road | 21 | 16 | 19 | 14 | 90% | 88% |
| 376 | Burroughs Road | 19 | 22 | 13 | 13 | 68% | 59% |
| 378 | Kendall Road | 23 | 19 | 13 | 14 | 57% | 74% |
| 381 | Kendall Road | 19 | 20 | 15 | 12 | 79% | 60% |
| 386 | Pine Pasture Run | 26 | 26 | 15 | 28 | 58% | 100% |
| 438 | Nashoba Drive | 13 | 13 | 8 | 9 | 62% | 69% |
| 445 | Liberty Square Road | 25 | 24 | 18 | 15 | 72% | 63% |
| 450 | Benjamin Drive | 15 | 14 | 9 | 12 | 60% | 86% |
| 457 | Waite Road | 23 | 22 | 19 | 14 | 83% | 64% |
| 459 | Waite Road | 23 | 23 | 18 | 15 | 78% | 65% |
| 460 | Waite Road | 18 | 27 | 14 | 20 | 78% | 74% |
| 461 | Waite Road | 25 | 31 | 17 | 20 | 68% | 65% |
| 462 | Waite Road | 25 | 35 | 19 | 22 | 76% | 63% |
| 472 | Liberty Square Road | 15 | 15 | 15 | 13 | 100% | 87% |
| 473 | Liberty Square Road | 19 | 16 | 19 | 16 | 100% | 100% |
| 474 | Liberty Square Road | 33 | 32 | 31 | 24 | 94% | 75% |
| 481 | Liberty Square Road | 11 | 8 | 6 | 7 | 55% | 88% |
| 483 | Liberty Square Road | 20 | 21 | 15 | 16 | 75% | 76% |
| 484 | Liberty Square Road | 19 | 14 | 20 | 14 | 100% | 100% |
| 485 | Liberty Square Road | 2 | 5 | 2 | 6 | 100% | 100% |
| 487 | Boxmill Road | 14 | 18 | 11 | 12 | 79% | 67% |
| 488 | Boxmill Road | 20 | 27 | 13 | 17 | 65% | 63% |
| 493 | Guggins Lane | 15 | 18 | 12 | 12 | 80% | 67% |
| 496 | Guggins Road | 22 | 25 | 19 | 19 | 86% | 76% |
| 514 | Windmere Drive | 15 | 30 | 13 | 16 | 87% | 53% |
| 525 | Windmere Drive | 8 | 38 | 9 | 24 | 100% | 63% |
| 536 | Middle Road | 26 | 15 | 19 | 9 | 73% | 60% |
| 537 | Guggins Lane | 14 | 27 | 12 | 27 | 86% | 100% |
| 538 | Guggins Lane | 26 | 26 | 15 | 16 | 58% | 62% |
| 543 | Boxmill Road | 21 | 20 | 15 | 12 | 71% | 60% |
| 544 | Boxmill Road | 14 | 23 | 12 | 20 | 86% | 87% |
| 545 | Liberty Square Road | 21 | 22 | 16 | 14 | 76% | 64% |

# Appendix G

## Complete List of Priority Catch Basins

| Priority Catch Basins | | | | | |
|---|---|---|---|---|---|
| 1 - Full During Consecutive Years | | 2 - 50% to 100% Full During Consecutive Years | | 3 - Potential Illicit Discharge* | |
| Catch Basin ID | Street Location | Catch Basin ID | Street Location | Catch Basin ID | Street Location |
| 13 | Swanson Road | 17 | Middle Road | 122 | Tokatawan Spring |
| 16 | Hill Road | 18 | Middle Road | 129 | Tokatawan Spring |
| 473 | Liberty Square Road | 19 | Middle Road | 133 | Hill Road |
| 484 | Liberty Square Road | 34 | Depot Road | 178 | Robinson Road |
| 485 | Liberty Square Road | 37 | Emanuel Drive | 181 | Robinson Road |
| | | 53 | Joseph Road | 254 | Pierce Lane |
| | | 58 | Joseph Road | 257 | Coolidge Farm Road |
| | | 65 | Depot Road | 279 | Burroughs Road |
| | | 70 | Depot Road | 285 | Priest Lane |
| | | 76 | Patch Hill Road | 388 | Pine Pasture Run |
| | | 85 | Prescott Road | | |
| | | 89 | Prescott Road | | |
| | | 91 | Prescott Road | | |
| | | 95 | Middle Road | | |
| | | 98 | Middle Road | | |
| | | 103 | Old Orchard Road | | |
| | | 110 | Avebury Circle | | |
| | | 125 | Tokatawan Spring | | |
| | | 134 | Hill Road | | |
| | | 136 | Hill Road | | |
| | | 138 | School House Lane | | |
| | | 141 | School House Lane | | |
| | | 144 | School House Lane | | |
| | | 145 | School House Lane | | |
| | | 154 | Whitcomb East | | |
| | | 184 | Robinson Road | | |
| | | 272 | Chester Road | | |
| | | 273 | Chester Road | | |
| | | 276 | Burroughs Road | | |
| | | 302 | Stow Road | | |
| | | 354 | Pine Hill Road | | |
| | | 372 | Pine Hill Road | | |
| | | 376 | Burroughs Road | | |
| | | 378 | Kendall Road | | |
| | | 381 | Kendall Road | | |
| | | 386 | Pine Pasture Run | | |
| | | 438 | Nashoba Drive | | |
| | | 445 | Liberty Square Road | | |
| | | 450 | Benjamin Drive | | |
| | | 457 | Waite Road | | |
| | | 459 | Waite Road | | |
| | | 460 | Waite Road | | |
| | | 461 | Waite Road | | |
| | | 462 | Waite Road | | |
| | | 472 | Liberty Square Road | | |
| | | 474 | Liberty Square Road | | |
| | | 481 | Liberty Square Road | | |
| | | 483 | Liberty Square Road | | |
| | | 487 | Boxmill Road | | |
| | | 488 | Boxmill Road | | |
| | | 493 | Guggins Lane | | |
| | | 496 | Guggins Road | | |
| | | 514 | Windmere Drive | | |
| | | 525 | Windmere Drive | | |
| | | 536 | Middle Road | | |
| | | 537 | Guggins Lane | | |
| | | 538 | Guggins Lane | | |
| | | 543 | Boxmill Road | | |
| | | 544 | Boxmill Road | | |
| | | 545 | Liberty Square Road | | |

*For at least one year, catch basins with both unknown pipes and olfactory/visual evidence of illicit discharge

# Appendix G

List of Stormwater BMPs

# STORMWATER INSPECTION REPORT

**To:** Mr. Ed Kukkula

**From:** Nick Cristofori, P.E., Comprehensive Environmental Inc.

**Date:** October 22, 2019

**Locations:** Fifield Ln, Whitney Ln, Steele Ln, Cedar Wood Rd, Stonehedge Pl, Pine Pasture Run, Patch Hill Rd, and Colonial Ridge Dr.

**Town:** Boxborough, MA

**Inspectors:** Chris McGuinness, Sara Nelson CEI

**Inspection Dates:** September 26, 2019

Under the Environmental Protection Agency's (EPA's) 2016 National Pollutant Discharge and Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit, regulated communities such as Boxborough are required to annually inspect stormwater Best Management Practices (BMPs) within the regulated Urbanized Area (UA) and maintain as needed. In response, Comprehensive Environmental Inc. performed an inspection of stormwater BMPs at the identified locations on September 26, 2019 to evaluate the general condition and document recommended maintenance items for follow-up action in order to meet permit requirements.

The Town of Boxborough Department of Public Works identified 8 BMP sites/locations and 11 individual BMPs that required inspections. BMP locations are identified street name and approximate location on the roadway. BMP inspection results are detailed in the attached inspection sheet attached to this report, along with representative photo documentation. All BMPs were located with an acceptable level of certainty with the exception of the BMP on Steele Lane.

At the time of the inspections the weather was approximately 50 degrees and sunny. Weather over a three-day period leading up to September 26th was upper 60s to low 50s and rained within 12 hours prior to performing the site investigations. Chris McGuinness and Sara Nelson inspected the following infrastructure, with photographs of the BMPs and inspection sheets attached.

**Table 1 – Stormwater BMPs Inspected**

| BMP ID | Location | Stormwater BMP Type | Overall Condition | Requires Maintenance |
|---|---|---|---|---|
| Fifers Lane | #123 Fifers Ln | Detention Basin | Poor | Yes (Major) |
| Whitney Lane | #63 Whitney Ln; behind house | Detention Basin | Fair | Yes (Minor) |
| Steele Lane | South of 560 Old Harvard Rd | Detention Basin | Fair | Yes (Major) |
| Cedar Wood Road Area #1 | At beginning of road | Detention Pond | Fair | Yes (Major) |
| Cedar Wood Road Area #2 | Across from 64 Cedarwood Rd | Detention Basin | Fair | Yes (Major) |
| Stonehedge Place Area #1 | 125 Stonehedge Place | Detention Basin | Fair | Yes (Major) |

**Table 1 (continued) – Stormwater BMPs Inspected**

| BMP ID | Location | Stormwater BMP Type | Overall Condition | Requires Maintenance |
|---|---|---|---|---|
| Stonehedge Place Area #2 | 54 Stonehedge Place | Detention Basin | Poor | Yes (Major) |
| Pine Pasture Run | 33 Pine Pasture Run | Detention Basin | Good | No |
| Patch Hill Rd | 15 Patch Hill Road | Large Forebay, Detention pond | Fair | No |
| Colonial Ridge Drive Area #1 | North of 96 Colonial Ridge Drive | Equalization Detention Basin | Fair | Yes (Minor) |
| Colonial Ridge Drive Area #2 | 97 Colonial Ridge Drive | Detention Basin | Good | No |

**Recommendations**

Additional notes regarding overall conditions outside of maintenance may be found in the "comments" tab of the attached inspection sheets. There may also be notes that highlight potential issues associated with maintenance access or lack thereof. Notes also include the apparent flow of water in the immediate area. In some cases, maintenance notes may also include vegetation clearing and potential grading to provide access to specific BMPs that require major or minor maintenance.

Some BMPs were in operating order and require minor maintenance while others may require more maintenance because of structural or earthwork damages. Minor maintenance might include removal of minor sediment or plant material buildup, trimming back or removal of vegetation, and general landscaping. At three locations the end of the drainage pipe had fallen away from slope and disconnected from the rest of length of pipe at the joint. This type of structural damage and sedimentation that significantly interrupts the function of the BMP is classified as Major Maintenance. Locations requiring major maintenance may require heavy equipment to repair. Please note that all maintenance suggestions are listed under Table 2.

As noted previously, the inspected BMPs are all located within the regulated UA or discharge to waters of the United States. Major maintenance should be completed as soon as possible to prevent worsening condition and failure of BMPs. If BMPs were found not to be located correctly, they should be located so that inspection and maintenance can be completed. This may require contact to property owners or confirmation that Town's records reflect as-built conditions accurately.

Based on CEI's inspections, the following items are recommended for additional follow-up action:

**Table 2 – Maintenance Recommendations**

| BMP ID / Location | Recommendations |
|---|---|
| Fifers Lane | End section of pipe should be reattached to main length to prevent sedimentation between the separation in the pipe and adverse flow conditions between pipe sections. Channeling coming from road and sediment accumulation observed and should be repaired. Fallen trees and heavy vegetation is present in basin and appears to impact flow capacity. Excess vegetation should be removed. |

**Table 2 (continued) – Maintenance Recommendations**

| BMP ID / Location | Recommendations |
|---|---|
| Whitney Lane | Outlet structure is completely overgrown and offers limited maintenance access, excess vegetation should be cut back. Inlet structure is cracking and fragmenting; should be repaired and rearranged. The end of a cross-culvert under Old Harvar Road was located, however the beginning near the BMP is overgrown and could not be located. Excess vegetation should be removed. |
| Steele Lane | Location of structural BMP is unclear, and may not exist in its entirety. The BMP seems to transition from stormwater piping system to overland flow to a clearing. Pipe outlet from system was not found. Basin is filled with leaves and has destroyed outlet structure. Pipe from drainage system should be located and destroyed culvert should be repaired. |
| Cedar Wood Road Area #1 | End section of pipe should be reattached to main length to prevent sedimentation between the separation in the pipe and adverse flow conditions between pipe sections. Minor scouring observed at the inlet to the BMP. |
| Cedar Wood Road Area #2 | Outlet pipe is approximately 75% full of sediment. Both inlets are at least 25% filled with sediment. Inlets and outlets should be dug out and excavated to avoid the clogging of pipes. Channeling was observed at one inlet and is contributing to erosion and sedimentation of downgradient areas. Channel should be repaired. |
| Stonehedge Place Area #1 | End section of pipe should be reattached to main length to prevent sedimentation between the separation in the pipe and adverse flow conditions between pipe sections. |
| Stonehedge Place Area #2 | BMP has little access for direct maintenance. Vegetation is overgrown and should be cut back. There was a smell of sewage in the area and ground was soft, could be illicit discharge in the area but more likely natural occurrence with anaerobic bacteria. Outlet structure is overgrown and appears too high in comparison to surround area to be effective. The outlet structure should be lowered or the surrounding earthen berm raised. Outlet structure should also be covered to prevent injury. |
| Colonial Ridge Drive Area #1 | Heavy sediment in one of the inlets which should be removed. Equalization ability is not fully utilized because of sediment buildup. |

If you have any further questions or would like additional information, please feel free to contact me at 800.725.2550 x303 or ncristofori@ceiengineers.com. Thank you.

Nick Cristofori, P.E.
Principal, Project Manager

Attachments:

- Stormwater inspection checklists
- Inspection photographs

# Structural Stormwater BMP Inspection Checklist

**Instructions: complete for all stormwater BMPs.**

**Town: Boxborough, MA**

Date: 9/26/2019
Inspector Name: Chris McGuiness, Sara Nelson
Weather Today: 50+ degrees and clear
Weather over past 72 hours: light shower 9/25

| BMP ID / Location | Type of BMP | Maint. Required? | Sediment Accumulation | Deposits | Structural Condition | Erodibility | Vegetation | Inlet Pipes | Outlet Pipes | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| Fifers Ln | __ Forebay<br>X Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* - Det. Basin | X Yes<br>__ No | X_ None<br>__ Slight build up<br>__ Heavy build up<br>__ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>_ Trash/Debris<br>__ Other* | __ N/A<br>__ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>X_ Other* | __ N/A<br>__ None<br>X_ Channels<br>__ Depressions<br>X_ Bank Erosion<br>__ Displaced Riprap<br>__ Other*<br>*Joint detached | __ N/A<br>__ No Distress<br>__ Distressed<br>X_ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | X_ N/A<br>_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Catch basins join to D-MH across from house #110 then go to basin. Inlet pipe joint has slipped out of pipe connection, leaving an open gap in the ground above pipes. Channeling in nearby area. Many fallen trees in basin. |
| Whitney Ln | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | X_ Yes<br>__ No | X_ None<br>__ Slight build up<br>__ Heavy build up<br>_____ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>__ Good<br>__ Corroded<br>X_ Cracked<br>__ Exposed Steel<br>X_ Other* | __ N/A<br>__ None<br>__ Channels<br>__ Depressions<br>X_ Bank Erosion<br>__ Displaced Riprap<br>__ Other*<br>*Headwall falling | __ N/A<br>__ No Distress<br>__ Distressed<br>__ Sparse<br>X_ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>__ Good Condition<br>X_ Cracked<br>__ Exposed Steel<br>__ Corroded | __ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Headwall stone by inlet falling into inlet culvert. Overgrowth by outlet culvert blocked view of outlet pipe for inspection. See picture of outlet structure to swampy area on opposite side of Old Harvard Rd. |
| Steele Ln | __ Forebay<br>_x_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | _x_ Yes<br>__ No | _x_ None<br>__ Slight build up<br>__ Heavy build up<br>_____ Depth (in.) | _x_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | _x_ N/A<br>__ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>__ None<br>_x_ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | __ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | No inlet to BMP found. Channeling from Overland flow around the southern edge of the property off of Old Harvard Rd. Between Steele Ln and the suspected BMP is a wellfield for residence of the property off of Old Harvard Rd was observed. |
| Cedar Wood Rd<br><br>Area 1<br>Inlet 1 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | X_ Yes<br>__ No | X_ None<br>__ Slight build up<br>__ Heavy build up<br>_____ Depth (in.) | __ None<br>__ Grease/Oil<br>__ Grass/Compost<br>X_ Trash/Debris<br>__ Other*<br>*Minimal amont | __ N/A<br>__ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>X_ Other*<br>*Joint sliding | __ N/A<br>__ None<br>__ Channels<br>__ Depressions<br>X_ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>X_ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>__ Good Condition<br>X_ Cracked<br>__ Exposed Steel<br>__ Corroded<br>*Joint Sliding | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Structure disconnected at first joint from end of inlet pipe. Evidence of overland flow, downslope. Pond itself is in good condition. |
| Cedar Wood Rd<br>Area 2<br>Inlet 1 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | X_ Yes<br>__ No | __ None<br>X_ Slight build up<br>__ Heavy build up<br>___2__ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>X_ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>__ None<br>X_ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>__ Distressed<br>X_ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | __ N/A<br>__ Good Condition<br>X_ Cracked<br>__ Exposed Steel<br>__ Corroded<br>*Outlet pipe score | Two inlet pipes and one outlet pipe to MH. Presumed connection to Detention pond in Area 1. Outlet filled 75% with sediment with maintenance suggested. Channeling and erosion at inlet 1. |
| Cedar Wood Rd<br><br>Area 2<br>Inlet 2 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | X__ Yes<br>_ No | __ None<br>__ Slight build up<br>X_ Heavy build up<br>___8__ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>__ Good<br>X_ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other*<br>*Chipped | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>__ Distressed<br>X_ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>__ Good Condition<br>X_ Cracked<br>__ Exposed Steel<br>__ Corroded | __ N/A<br>__ Good Condition<br>X_ Cracked<br>__ Exposed Steel<br>__ Corroded<br>*Same outlet for inlet 1 | Two inlet pipes and one outlet pipe to MH. Vegetation is dense and wooded - could cause issue in coming years. Inlet 2 is filled 50% with sediment. Appears to have been recently dug out slightly to increase flow. |

# Structural Stormwater BMP Inspection Checklist

**Instructions: complete for all stormwater BMPs.**

**Town: Boxborough, MA**

Date: 9/26/2019
Inspector Name: Chris McGuiness, Sara Nelson
Weather Today: 50+ degrees and clear
Weather over past 72 hours: light shower 9/25

| BMP ID / Location | Type of BMP | Maint. Required? | Sediment Accumulation | Deposits | Structural Condition | Erodibility | Vegetation | Inlet Pipes | Outlet Pipes | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| Stonehedge Pl<br>A21:I30<br>Area 1<br>Inlet 1 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | X_ Yes<br>__ No | X_ None<br>__ Slight build up<br>__ Heavy build up<br>_____ Depth (in.) | __ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>X_ Other*<br>*Joint Broken | __ N/A<br>__ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>X_ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded<br>*Separated but good condition | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Inlet pipe slipping out of slope and joint is broken. Sediment covering rip-rap 10ft from inlet. |
| Stonehedge Pl<br>Area 2<br>Inlet 1 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>X_ No | __ None<br>X_ Slight build up<br>__ Heavy build up<br>__3__ Depth (in.)<br>*Sticks and Pine needles | __ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>X_ Other*<br>*Sewage odor | __ N/A<br>X_ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>__ None<br>X_ Channels<br>__ Depressions<br>X_ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>__ Distressed<br>X_ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Two inlet pipes and one overflow grate. Vegetation overgrown at road. Strong, pungent odor in vicinity of inlet 1. Outlet/overflow structure covered in poison ivy and appears to be too high in comparison to surrounding ground elevations. |
| Stonehedge Pl<br>Area 2<br>Inlet 2 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | X_ Yes<br>__ No | __ None<br>__ Slight build up<br>X_ Heavy build up<br>__8__ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>__ Good<br>X_ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>X_ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>X_ Corroded | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Two inlet pipes and one overflow grate. Inlet pipe appears to be filled 50% with sediment and is moderately corroded. Ground elevation around outflow grate structure appears lower than structure height. |
| Pine Pasture Run<br>Inlet 1 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>X_ No | __ None<br>X_ Slight build up<br>__ Heavy build up<br>__1__ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>X_ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>X_ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded<br>*Earthen berm | Some slight overgrowth around inlet but minimal vegetation in basin. Emergency spillway to earthen berm. Unidentified planter boxes in basin. |
| Pine Pasture Run<br>Inlet 2 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>X_ No | __ None<br>X_ Slight build up<br>__ Heavy build up<br>__2__ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>__ Good<br>__ Corroded<br>X_ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>X_ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>__ Good Condition<br>X_ Cracked<br>__ Exposed Steel<br>__ Corroded | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded<br>*Earthen berm | Some slight overgrowth around inlet but minimal vegetation in basin. Emergency spillway to earthen berm. |
| Patch Hill Road | X_ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>X_ No | X_ None<br>__ Slight build up<br>__ Heavy build up<br>_____ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>X_ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>__ None<br>X_ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>X_ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Series of stormwater culverts leading to inlet pipe of basin. Drainage line in street runs perpendicular into woods which discharges to manhole leading to inlet. Potential emergency spillway comprising rocks and rip-rap. |

# Structural Stormwater BMP Inspection Checklist

**Instructions: complete for all stormwater BMPs.**

**Town: Boxborough, MA**

Date: 9/26/2019
Inspector Name: Chris McGuiness, Sara Nelson

Weather Today: 50+ degrees and clear
Weather over past 72 hours: light shower 9/25

| BMP ID / Location | Type of BMP | Maint. Required? | Sediment Accumulation | Deposits | Structural Condition | Erodibility | Vegetation | Inlet Pipes | Outlet Pipes | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| Colonial Ridge Dr<br>Area 1<br>Side 1 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | X_ Yes<br>__ No | __ None<br>__ Slight build up<br>X_ Heavy build up<br>_____ Depth (in.)<br>*75% filled | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>X_ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>X_ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Flows from catch basins in road to equalization pipe at edge of woods with side 2. Recommended maintenance to remove sediment build-up. |
| Colonial Ridge Dr<br>Area 1<br>Side 2 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>X_ No | __ None<br>X_ Slight build up<br>__ Heavy build up<br>__1-2__ Depth (in.)<br>*10% filled | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>X_ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>X_ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Equalization pipe/basin from storm drain in roadway with side 1. |
| Colonial Ridge Dr.<br>Area 2<br>Basin 1 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>X_ No | X_ None<br>__ Slight build up<br>__ Heavy build up<br>_____ Depth (in.) | X_ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>X_ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>X_ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Storm drain in roadway forks off into basins 1 and 2. |
| Colonial Ridge Dr.<br>Area 2<br>Basin 2 | __ Forebay<br>X_ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>X_ No | __ None<br>X_ Slight build up<br>__ Heavy build up<br>_____ Depth (in.)<br>*25% filled | __ None<br>__ Grease/Oil<br>__ Grass/Compost<br>X_ Trash/Debris<br>__ Other*<br>*Wooden board | __ N/A<br>X_ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>X_ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>__ Distressed<br>__ Sparse<br>X_ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>X_ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | X_ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | Slightly overgrown with evidence of yard waste dumping in spillway. Sediment and board located in inlet pipe. Storm drain in roadway forks off into basin 1 and 2. |
| | __ Forebay<br>__ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>__ No | __ None<br>__ Slight build up<br>__ Heavy build up<br>_____ Depth (in.) | __ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>__ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>__ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | __ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | |
| | __ Forebay<br>__ Det. / Infil. Pond<br>__ Swale<br>__ Rain Garden<br>__ Underground System<br>__ Leaching Catch Basin<br>__ Proprietary Separator<br>__ Other* | __ Yes<br>__ No | __ None<br>__ Slight build up<br>__ Heavy build up<br>_____ Depth (in.) | __ None<br>__ Grease/Oil<br>__ Grass/Compost<br>__ Trash/Debris<br>__ Other* | __ N/A<br>__ Good<br>__ Corroded<br>__ Cracked<br>__ Exposed Steel<br>__ Other* | __ N/A<br>__ None<br>__ Channels<br>__ Depressions<br>__ Bank Erosion<br>__ Displaced Riprap<br>__ Other* | __ N/A<br>__ No Distress<br>__ Distressed<br>__ Sparse<br>__ Overgrown<br>__ Invasive Plants<br>__ Other* | __ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | __ N/A<br>__ Good Condition<br>__ Cracked<br>__ Exposed Steel<br>__ Corroded | |

* Provide additional comments to describe the observations made for the category.

# STORMWATER INSPECTION REPORT

| | |
|---|---|
| **To:** | Mr. Ed Kukkula |
| **From:** | Nick Cristofori, P.E., Comprehensive Environmental Inc. |
| **Date:** | July 9, 2021 |
| **Locations:** | Fifield Ln, Whitney Ln, Steele Ln, Cedar Wood Rd, Stonehedge Place, Pine Pasture Run, Patch Hill Rd, and Colonial Ridge Dr. |
| **Town:** | Boxborough, MA |
| **Inspectors:** | Sara Nelson, CEI |
| **Inspection Dates:** | July 6, 2021 |

Under the Environmental Protection Agency's (EPA's) 2016 National Pollutant Discharge and Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit, regulated communities such as Boxborough are required to annually inspect stormwater Best Management Practices (BMPs) within the regulated Urbanized Area (UA) and maintain as needed. In response, Comprehensive Environmental Inc. (CEI) performed an inspection of stormwater BMPs at the identified locations on July 6, 2021 to evaluate general conditions and document recommended maintenance items for follow-up action in order to meet permit requirements.

**Inspections**

The Town of Boxborough Department of Public Works identified 11 individual BMPs that required inspections to meet permit requirements. BMP locations are identified by street name and approximate location on the roadway. BMP inspection results are detailed on the inspection sheets attached to this report, along with representative photo documentation. All BMPs were located and inspected.

At the time of the inspections the weather was approximately 70 degrees and cloudy. Weather over a three-day period leading up to July 6th was 50s to 70s,with rain falling within 12 hours prior to performing the site investigations. Sara Nelson of CEI inspected the following infrastructure, with photographs of the BMPs and inspection sheets attached.

**Table 1 – Stormwater BMPs Inspected**

| BMP ID | Location | Stormwater BMP Type | Overall Condition | Requires Maintenance |
|---|---|---|---|---|
| Cedar Wood Road Area #1 | At beginning of road | Detention Pond | Good | No |
| Cedar Wood Road Area #2 | Across from 64 Cedarwood Rd | Detention Basin | Fair | Yes (Minor) |
| Colonial Ridge Drive Area #1 | North of 96 Colonial Ridge Drive | Equalization Detention Basin | Good | No |

**Table 1 (continued) – Stormwater BMPs Inspected**

| BMP ID | Location | Stormwater BMP Type | Overall Condition | Requires Maintenance |
|---|---|---|---|---|
| Colonial Ridge Drive Area #2 | 97 Colonial Ridge Drive | Detention Basin | Fair | Yes (Minor) |
| Fifers Lane | #123 Fifers Ln | Detention Basin | Poor | Yes (Major) |
| Patch Hill Rd | 15 Patch Hill Road | Large Forebay, Detention pond | Fair | Yes (Minor) |
| Pine Pasture Run | 33 Pine Pasture Run | Detention Basin | Fair | Yes (Minor) |
| Steele Lane | South of 560 Old Harvard Rd | Detention Basin | Good | No |
| Stonehedge Place Area #1 | 125 Stonehedge Place | Detention Basin | Good | No |
| Stonehedge Place Area #2 | 54 Stonehedge Place | Detention Basin | Fair | Yes (Minor) |
| Whitney Lane | #63 Whitney Ln; behind house | Detention Basin | Fair | Yes (Minor) |

**Recommendations**

The majority of the BMPs are in good or fair operating order and require only minor maintenance as noted in Table 1 and on the attached inspection sheets. Minor maintenance generally includes removal of plant material buildup, sediment vacuuming, trimming back or removal of vegetation, curb or edge of road maintenance, and general landscaping. One BMP on Fifers Lane could use additional maintenance to reset a failed pipe joint. All maintenance suggestions are listed under Table 2. Major maintenance should be completed as soon as possible to prevent worsening condition and failure of BMPs. Based on CEI's inspections, the following items are recommended for additional follow-up action:

**Table 2 – Maintenance Recommendations**

| BMP ID / Location | Recommendations |
|---|---|
| Cedar Wood Road Area #2 | Unclog inlet pipe and overflow outlet pipe to restore capacity and function. |
| Colonial Ridge Drive Area #2 | Cut and remove vegetation on side slopes, bottom, and spillways to maintain function, storage capacity, and accessibility. |
| Fifers Lane | Cut and remove vegetation on side slopes, bottom, and spillways to maintain function, storage capacity, and accessibility. Reset disjointed inlet pipe. |
| Patch Hill Road | Remove debris from outlet grate to maintain function. Remove overgrown woody vegetation from embankment. |
| Pine Pasture Run | Remove vegetation blocking inlet pipes. |

**Table 2 (continued) – Maintenance Recommendations**

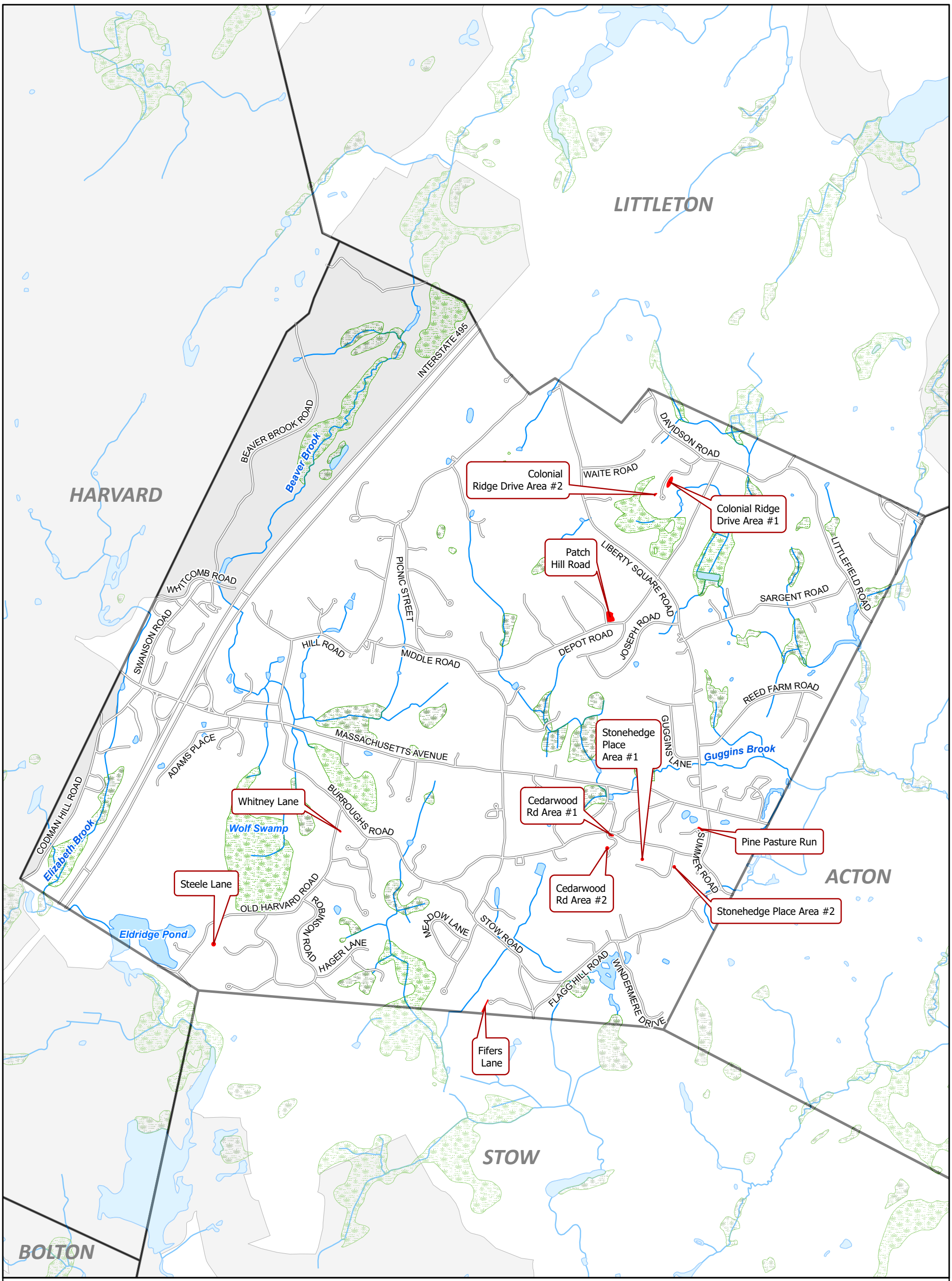
| BMP ID / Location | Recommendations |
|---|---|
| Stonehedge Place Area #2 | Cut and remove vegetation on side slopes, bottom, and spillways to maintain function, storage capacity, and accessibility. Remove vegetation from outlet grate to restore function. |
| Whitney Lane | Repair damaged inlet. |

If you have any further questions or would like additional information, please feel free to contact me at 800.725.2550 x303 or ncristofori@ceiengineers.com. Thank you.

Nick Cristofori, P.E.
Principal, Project Manager

Attachments:

- Stormwater BMP Map
- Stormwater inspection forms with photographs




**BMP**
**Roads**
**Lake, Pond, Reservoir**
**Wetland, Marsh, Swamp**
**Stream, Brook**
**Non-Urban Area**

N W E S

0 0.25 0.5 0.75 1
Miles

# Stormwater BMP Map

## Boxborough, MA

Comprehensive Environmental Incorporated

Data Sources: MassGIS, Town of Boxborough, CEI

6/30/2020

# Appendix H

Annual Reports

# Year 1 Annual Report
## Massachusetts Small MS4 General Permit
## Reporting Period: May 1, 2018-June 30, 2019

***Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form***

*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.*

## Part I: Contact Information

Name of Municipality or Organization: Town of Boxborough

EPA NPDES Permit Number: MAR041183

**Primary MS4 Program Manager Contact Information**

Name: Edward Kukkula Title: DPW Director

Street Address Line 1: 873 Massachusetts Avenue

Street Address Line 2: na

City: Boxborough State: MA Zip Code: 01719

Email: ekukkula@boxborough-ma.gov Phone Number: (978)-264-1792

Fax Number: na

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address): http://www.boxborough-ma.gov/town-planner

Date SWMP was Last Updated: June 30, 2019

If the SWMP is not available on the web please provide the physical address and an explanation of why it is not posted on the web:

# Part II: Self Assessment

*First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4.*

**Impairment(s)**

☐ Bacteria/Pathogens ☐ Chloride ☐ Nitrogen ☐ 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.*

Year 1 Requirements

- ☐ Develop and begin public education and outreach program
- ☐ Identify and develop inventory of all known locations where SSOs have discharged to the MS4 in the last 5 years
  - ○ The SSO inventory is attached to the email submission
  - ◉ The SSO inventory can be found at the following website:

    Note, not applicable because the entire town relies on septic systems
- ☒ Develop written IDDE plan including a procedure for screening and sampling outfalls
- ☒ IDDE ordinance complete
- ☒ Identify each outfall and interconnection discharging from MS4, classify into the relevant category, and priority rank each catchment for investigation
  - ○ The priority ranking of outfalls/interconnections is attached to the email submission
  - ◉ The priority ranking of outfalls/interconnections can be found at the following website:

    http://www.boxborough-ma.gov/town-planner; IDDE Plan, Appendix B
- ☐ Construction/ Erosion and Sediment Control (ESC) ordinance complete
- ☒ Develop written procedures for site inspections and enforcement of sediment and erosion control measures
- ☒ Develop written procedures for site plan review
- ☒ Keep a log of catch basins cleaned or inspected
- ☐ Complete inspection of all stormwater treatment structures

Annual Requirements

- ☒ Annual opportunity for public participation in review and implementation of SWMP
- ☒ Comply with State Public Notice requirements
- ☒ 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
- ☒ All curbed roadways have been swept a minimum of one time per year

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

Annual Requirements

*Public Education and Outreach**

- ☐ Distribute an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizers
- ☒ Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- ☐ Distribute 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*

- ☒ Increase 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)

Use the box below to input additional details on any unchecked boxes above or any additional information you would like to share as part of your self assessment:

Public Education and Outreach - Town has not yet developed a comprehensive public education program, however, is planning on developing this program in fall 2019. This program is expected to consist of website text with a permit overview, specific messages and topics for each of the Town's four audiences, links to external websites, and links for download for different outreach brochures. This program also consists of a detailed schedule for material distribution, including seasonal messages for bacteria, nitrogen, and phosphorus TMDL and impaired waters requirements. Seasonal message outreach will start during fall 2019.

Construction/Erosion and Sediment Control Ordinance - Requirements are partially met in the existing Town regulations which in part require erosion and sediment controls, site inspections during construction, and site plan review, however, these do not provide a comprehensive program that applies to all sites that disturb one acre or more. Regulations will be revised along with the post-construction ordinance updates to be completed during Year 2.

Stormwater BMP Inspections - The Town is developed an inventory of its town-owned Stormwater BMPs. Inspections were conducted at the end of September 2019 and results are pending.

IDDE Training - An employee IDDE Training program will be developed during Year 2, with annual training to be performed starting in Year 2.

# 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 the reporting period: 1

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

**BMP: Video, Think Blue Massachusetts "Fowl Water"**

Message Description and Distribution Method:

Think Blue Massachusetts "Fowl Water" video (https://www.thinkbluemassachusetts.org/)
Advertisement on Facebook, Instagram, & YouTube

Targeted Audience: Residents

Responsible Department/Parties: Information Technology

Measurable Goal(s):

6,559 social media impressions from Town residents.

Message Date(s): June 23, 2019 - June 30, 2019

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 the reporting period:

SWMP Plan for Download - The Town has posted the SWMP Plan on Town website along with contact information to allow for public comment.

Was this opportunity different than what was proposed in your NOI? Yes ☐ No ☒

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

## MCM3: Illicit Discharge Detection and Elimination (IDDE)

**Sanitary Sewer Overflows (SSOs)**

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

Number of SSOs identified: N/A

Number of SSOs removed: N/A

*Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.*

Total number of SSOs identified: N/A

Total number of SSOs removed: N/A

**MS4 System Mapping**

Describe the status of your MS4 map, including any progress made during the reporting period:

The Town has completed multiple Phase I mapping requirements under the 2016 Permit. Outfalls and receiving waters within the Town's urbanized area, along with catchment delineations, have been located and included in the Town's GIS database. Impaired waters have also been mapped. The Town will work toward identifying its stormwater treatment structures, interconnections with other towns, and open channel conveyances in Permit Year 2.

**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.*

○ The outfall screening data is attached to the email submission

○ The outfall screening data can be found at the following website:

N/A, none completed to date

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

Number of outfalls screened: 0

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

Percent of total outfalls screened: 0%

**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.*

- ○ The catchment investigation data is attached to the email submission
- ○ The catchment investigation data can be found at the following website:

N/A, none completed to date

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0%

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

N/A, not yet started

**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.*

- ○ The illicit discharge removal report is attached to the email submission
- ◉ The illicit discharge removal report can be found at the following website:

N/A, none found to date

*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: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: N/A [UNITS]

*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.*

Total number of illicit discharges identified: 0

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:

N/A

**Employee Training**

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

An employee IDDE Training program will be developed during Year 2, with annual training to be performed starting in Year 2.

## 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: 5

Number of inspections completed: 20

Number of enforcement actions taken: 1

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

**Ordinance Development**

Describe the status of the post-construction ordinance required to be complete in year 2 of the permit term:

The current Town bylaws and regulations are partially in compliance with the Year 2 requirements, however they are scattered throughout several different documents/bylaws. The Town will draft a comprehensive Stormwater program to meet all Year 2 requirements, and it is anticipated that the ordinances within the program will be put up for vote at the spring 2020 town meeting.

**As-built Drawings**

Describe the status of the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites required to be complete in year 2 of the permit term:

As part of the regulatory updates to be performed during Year 2, procedures for submittal of as-built drawings and long term operation and maintenance will be developed.

**Street Design and Parking Lots Report**

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

N/A, to be completed during future permit years.

**Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

N/A, to be completed during future permit years.

**Retrofit Properties Inventory**

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

The Town is currently developing an inventory of its permittee-owned properties. Once completed, facilities will be evaluated for potential BMP retrofit opportunities during future permit years.

## MCM6: Good Housekeeping

**Catch Basin Cleaning**

Describe the status of the catch basin cleaning optimization plan:

The Town developed a Catch Basin Cleaning Optimization Plan during Year 1 as a component of its SWMP P

*If complete, attach the catch basin cleaning optimization plan or the schedule to gather information to develop the optimization plan:*

- ○ The catch basin cleaning optimization plan or schedule is attached to the email submission
- ◉ The catch basin cleaning optimization plan or schedule can be found at the following website:

http://www.boxborough-ma.gov/town-planner; SWMP Plan, Appendix G

*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: 549

Number of catch basins cleaned: 546

Total volume or mass of material removed from all catch basins: 250 cubic yards

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

Total number of catch basins: 550

*If applicable:*

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

Not yet applicable, pending collection of a second round of catch basin inspections.

**Street Sweeping**

Describe the status of the written procedures for sweeping streets and municipal-owned lots:

The Town developed a Street Sweeping Optimization Prioritization Plan during Year 1 as a component of its SWMP Plan. This consists of a map displaying sweeping requirements throughout the Town and a Standard Operating Procedure (SOP) for completing the sweeping.

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

- (●) Number of miles cleaned: 28
- ( ) Volume of material removed: [UNITS]
- ( ) Weight of material removed: [UNITS]

*If applicable:*

For rural uncurbed roadways with no catch basins, describe the progress of the inspection, documentation, and targeted sweeping plan:

DPW personnel observe all regulated town-owned roadways for maintenance needs, including street sweeping, during routine operations. Personnel also observe known trouble areas, such as projects with large-scale construction projects or projects with substantial land disturbance, for evidence of runoff-laden sediment onto roadways that may require more frequent sweeping in addition to that outlined under the Street Sweeping Optimization Plan. In addition, town residents periodically call the DPW to report localized areas needing sweeping that DPW personnel then visit to inspect. Should areas in need of additional sweeping be observed, the Town documents these areas as part of its Street Sweeping Optimization Plan and schedules areas for sweeping during the next upcoming round. Note that the Town applies no sand to roadways during winter operations, and thus observed sweeping needs are typically minimal. Inspections of rural uncurbed roadways

conducted to date have not yet observed any needs for additional sweeping within regulated urbanized area roadways.

**Winter Road Maintenance**

Describe the status of the written procedures for winter road maintenance including the storage of salt and sand:

The Town developed SOPs for winter road maintenance during Year 1. These SOPs will be included as part of a larger comprehensive Operation and Maintenance (O&M) Plan during Year 2 that covers other facilities and stormwater infrastructure.

**Inventory of Permittee-Owned Properties**

Describe the status of the inventory, due in year 2 of the permit term, of permittee-owned properties, including parks and open spaces, buildings and facilities, and vehicles and equipment, and include any updates:

The Town is currently developing an inventory of its permittee-owned properties, to be completed by the end of Year 2.

**O&M Procedures for Parks and Open Spaces, Buildings and Facilities, and Vehicles and Equipment**

Describe the status of the operation and maintenance procedures, due in year 2 of the permit term, of permittee-owned properties (parks and open spaces, buildings and facilities, vehicles and equipment) and include maintenance activities associated with each:

The Town is currently developing O&M Procedures for its Parks and Open Spaces, Buildings and Facilities, and Vehicles and Equipment, to be completed by the end of Year 2.

**Stormwater Pollution Prevention Plan (SWPPP)**

Describe the status of any SWPPP, due in year 2 of the permit term, for permittee-owned or operated facilities including maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater:

The Town is currently working towards completing SWPPPs for applicable facilities. The Town completed a preliminary review of its facilities during Year 1 and determined that two facilities are likely regulated, the DPW Garage and Transfer Station. During Year 2, the Town will complete a more comprehensive facility assessment and complete SWPPPs for applicable facilities by the end of Year 2.

*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:

N/A, not yet started.

**O&M Procedures for Stormwater Treatment Structures**

Describe the status of the written procedure for stormwater treatment structure maintenance:

The Town developed an inventory of its town-owned Stormwater BMPs, as well as written procedures for inspection and maintenance. Inspections were conducted at the end of September 2019 and results are pending. The Town will inspect all regulated stormwater BMPs annually and perform maintenance as needed.

## 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 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:

N/A, not yet started.

**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:

Activities performed during Year 1 include submittal of a Notice of Intent, development of a comprehensive Stormwater Management Program (SWMP) Plan which in part also included development of a Catch Basin Cleaning Optimization Plan and Street Sweeping Optimization Plan, development of a comprehensive Illicit Discharge Detection and Elimination (IDDE) Plan which in part included creation of procedures for identifying and removing illicit discharges along with classifying, prioritizing, and delineating catchment areas. Other activities completed included development of winter operation and maintenance procedures and completing an assessment of existing stormwater-related regulatory mechanisms.

**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 2 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

- Complete system mapping Phase I
- Begin investigations of catchments associated with Problem Outfalls
- Develop or modify an ordinance or other regulatory mechanism for post-construction stormwater runoff from new development and redevelopment
- Establish and implement written procedures to require the submission of as-built drawings no later than two years after the completion of construction projects
- Develop, if not already developed, written operations and maintenance procedures
- Develop an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; review annually and update as necessary
- Establish a written program detailing the activities and procedures the permittee will implement so that the MS4 infrastructure is maintained in a timely manner
- Develop and implement a written SWPPP for maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater
- Enclose or cover storage piles of salt or piles containing salt used for deicing or other purposes
- Develop, if not already developed, written procedures for sweeping streets and municipal-owned lots
- Develop, if not already developed, written procedures for winter road maintenance including storage of salt and sand
- Develop, if not already developed, a schedule for catch basin cleaning
- Develop, if not already developed, a written procedure for stormwater treatment structure maintenance
- Develop a written catchment investigation procedure *(18 months)*

<u>Annual Requirements</u>

- 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 in the last 5 years
- 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 uncurbed streets at least annually

Provide any additional details on activities planned for permit year 2 below:

As dry weather inspections are required for all regulated outfalls by the end of Year 3, the Town anticipates beginning these inspections during Year 2 to get a head start on sampling requirements. This will allow the Town more time to complete the inspections by the Year 3 deadline.

# Part V: Certification of Small MS4 Annual Report 2019

**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: RYAN FERRARA

Title: TOWN ADMINISTRATOR

Signature: Ryan Ferrara

Date: 9/27/19

*[Signatory may be a duly authorized representative]*

# Year 2 Annual Report
## Massachusetts Small MS4 General Permit
## Reporting Period: July 1, 2019-June 30, 2020

***Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form***

*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, 2019 and June 30, 2020 unless otherwise requested.*

## Part I: Contact Information

Name of Municipality or Organization: Town of Boxborough

EPA NPDES Permit Number: MAR041183

**Primary MS4 Program Manager Contact Information**

Name: Edward Kukkula Title: DPW Director

Street Address Line 1: 873 Massachusetts Avenue

Street Address Line 2: N/A

City: Boxborough State: MA Zip Code: 01719

Email: ekukkula@boxborough-ma.gov Phone Number: (978) 264-1792

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address): https://www.boxborough-ma.gov/town-planner/files/stormwater-management-program-0

Date SWMP was Last Updated: June 30, 2019

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)**

☐ Bacteria/Pathogens ☐ Chloride ☐ Nitrogen ☐ 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.*

Year 2 Requirements

- ☐ Completed Phase I of system mapping
- ☒ Developed a written catchment investigation procedure and added the procedure to the SWMP
- ☐ Developed written procedures to require the submission of as-built drawings and ensure the long term operation and maintenance of completed construction sites and added these procedures to the SWMP
- ☒ Enclosed or covered storage piles of salt or piles containing salt used for deicing or other purposes
- ☒ Developed written operations and maintenance procedures for parks and open space, buildings and facilities, and vehicles and equipment and added these procedures to the SWMP
- ☒ Developed an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment and added this inventory to the SWMP
- ☒ Completed a written program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- ☒ Developed written SWPPPs, included in the SWMP, for all of the following permittee owned or operated facilities: maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 2 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:

Phase I mapping - mapping of open channel conveyances and any newly located outfalls is ongoing. Mapping interconnections with other MS4s (e.g. DOT) is ongoing, and it is expected that this will continue as part of DOT's own mapping efforts to be completed under a future TS4 permit.

As-Builts and Long-Term O&M - the Town is working on incorporating procedures for submittal of as-builts and require long term operation and maintenance as part of its stormwater regulatory updates to be completed as part of the Year 3 requirements under EPA's pending updated permit schedule. As a result of the COVID-19 outbreak, regulations were not updated as planned during Permit Year 2.

Annual Requirements

- ☒ Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- ☒ Kept records relating to the permit available for 5 years and made available to the public
- ☒ 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 website:
- ☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- ☒ Provided training to employees involved in IDDE program within the reporting period
- ☒ All curbed roadways were swept at least once within the reporting period
- ☒ Updated outfall and interconnection inventory and priority ranking as needed

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual 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:

Outfall Inventory and Ranking - the outfall and interconnection inventory is updated on an ongoing basis as dry weather screening is performed. The priority ranking will be updated after dry weather inspections are completed and before catchment investigations commence.~

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

Annual Requirements

*Public Education and Outreach**

- ☒ 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
- ☒ Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- ☒ 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)

*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:

Public Education and Outreach - the Town is part of the statewide ThinkBlue campaign which in part distributes a number of public outreach-related materials throughout the year. The Town also posted flyers on all three seasonal topics on its website for download at any time of the year.

Street Sweeping - streets were swept only once per year during Year 2. Note that only a small portion of southwestern Boxborough is located within the Assabet River watershed, and there are no known stormwater outfalls, catch basins, or other closed drainage infrastructure within this area. Stormwater runoff within this area simply sheetflows off the road via "country drainage" and thus there are no point-source stormwater contributions to the Assabet River or its tributaries. Thus, the Town is exempt from sweeping twice per year within these areas.

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

Dry Weather Outfall Screening - The Town attempted to inspect all 25 known stormwater outfalls during dry weather for potential illicit discharges. Of the 25 known stormwater outfalls that were inspected, 22 were located and 1 of which was flowing. The flowing outfall was sampled and barely met the permit criteria for being highly likely to contain illicit discharges and will be resampled and/or further investigated for potential illicit discharges during Year 3. The Town will also attempt to locate and inspect the remaining 3 outfalls for dry weather flows during Year 3.

# 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**: 2

*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: Video, Think Blue Massachusetts "Fowl Water"**

Message Description and Distribution Method:

Think Blue Massachusetts "Fowl Water" video (https://www.thinkbluemassachusetts.org/) Advertisement on Facebook, Instagram, & YouTube

Targeted Audience: Residents

Responsible Department/Parties: Information Technology

Measurable Goal(s):

16,252 social media impressions from Town residents.

Message Date(s): Ongoing

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:Web Page**

Message Description and Distribution Method:

Develop a town stormwater website with a links to external sites such as EPA and NHDES as well as provide stormwater brochures for download.

Targeted Audience: Residents, Businesses, institutions and commercial, Developers, Industrial

Responsible Department/Parties: Information Technology, Planning Board

Measurable Goal(s):

Creation of website with periodic updates.

Message Date(s): Ongoing

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**:

SWMP Plan for Download - The Town has posted the SWMP Plan on Town website along with contact information to allow for public comment.

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**:

## 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: 0

Number of SSOs removed: 0

**MS4 System Mapping**

*Below, check all that apply.*

The following elements of the Phase I map have been completed:

- ☒ Outfalls and receiving waters
- ☐ Open channel conveyances
- ☐ Interconnections
- ☒ Municipally-owned stormwater treatment structures
- ☒ Waterbodies identified by name and indication of all use impairments
- ☒ Initial catchment delineations

*Optional:* Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:

Phase I Mapping - all known outfalls, stormwater BMPs, and receiving waterbodies with impairments have been mapped to date. Initial catchment delineations have also been completed based on topographic mapping and available stormwater system information. Mapping of open channel conveyances and any newly located outfalls is ongoing. Mapping interconnections with other MS4s (e.g. DOT) is ongoing, and it is expected that this will continue as part of DOT's own mapping efforts to be completed under a future TS4 permit.

**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.*

- ◉ The outfall screening data is attached to the email submission
- ○ The outfall screening data can be found at the following website:

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

Number of outfalls screened: 22

**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.*

- ○ The catchment investigation data is attached to the email submission
- ○ The catchment investigation data can be found at the following website:

N/A, none completed to date

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0

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

**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.*

- ○ The illicit discharge removal report is attached to the email submission
- ○ The illicit discharge removal report can be found at the following website:

N/A, none found to date

*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: 0

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: 0

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:

**Employee Training**

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

An on-site IDDE training session was held on June 16, 2020 with applicable DPW staff. This session also provided training on Stormwater Pollution Prevention Plan (SWPPP) implementation and inspections at both the DPW Garage and Transfer Station.

## 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: 0

Number of inspections completed: 0

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**

*Below, select the option that describes your ordinance or regulatory mechanism progress.*

- ○ Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
- ◉ Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- ○ Bylaw, ordinance, or regulations have not been updated or adopted

**As-built Drawings**

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

The Town is working on incorporating procedures for submittal of as-builts and long term operation and maintenance as part of its stormwater regulatory updates to be completed as part of the Year 3 requirements under EPA's pending updated permit schedule. As a result of the COVID-19 outbreak, regulations were not updated as planned during Permit Year 2.

**Street Design and Parking Lots Report**

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

N/A, to be completed during future permit years.

**Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

N/A, to be completed during future permit years.

**Retrofit Properties Inventory**

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

The Town completed an inventory of its permittee-owned properties during this permit year. Facilities will be evaluated for potential BMP retrofit opportunities during future permit years.

## 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: 0

Number of catch basins cleaned: 0

Total volume or mass of material removed from all catch basins: 0 [Select Units]

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

Total number of catch basins: 550

*If applicable:*

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

Not yet applicable.

**Street Sweeping**

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

- ○ Number of miles cleaned:
- ○ Volume of material removed: [Select Units]
- ◉ Weight of material removed: 36 tons

**O&M Procedures and Inventory of Permittee-Owned Properties**

*Below, check all that apply.*

The following permittee-owned properties have been inventoried:

- ☒ Parks and open spaces
- ☒ Buildings and facilities
- ☒ Vehicles and equipment

The following O&M procedures for permittee-owned properties have been completed:

- ☒ Parks and open spaces
- ☒ Buildings and facilities
- ☒ Vehicles and equipment

**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:

Not applicable, no corrective actions have been taken to date. Note that individual SWPPPs for the DPW Garage and Transfer Station were completed on June 30, 2020. Quarterly site inspections will begin during Year 3.

## 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 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:

N/A, not started yet.

**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:

**COVID-19 Impacts**

*Optional:* If any of the above year 2 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:

As-Builts and Long-Term O&M - the Town is working on incorporating procedures for submittal of as-builts and require long term operation and maintenance as part of its stormwater regulatory updates to be completed as part of the Year 3 requirements under EPA's pending updated permit schedule. As a result of the COVID-19 outbreak, regulations were not updated as planned during Permit Year 2.

**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 3 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

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 uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- 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

Provide any additional details on activities planned for permit year 3 below:

The SWMP Plan and IDDE Plan will be updated during FY-21 to address all work performed through Year 3. This will include incorporating the above items into the SWMP Plan and/or IDDE Plan as necessary, incorporate results from outfall dry weather screening, as well as documenting results of other annual activities below such as BMP inspections.

# Part V: Certification of Small MS4 Annual Report 2020

**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: RYAN FERRARA

Title: BOXBOROUGH TOWN ADMINISTRATOR

Signature: Ryan Ferrara

Date: 9/29/20

*[Signatory may be a duly authorized representative]*

# Year 3 Annual Report
## Massachusetts Small MS4 General Permit
## Reporting Period: July 1, 2020-June 30, 2021

***Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form***

*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, 2020 and June 30, 2021 unless otherwise requested.*

## Part I: Contact Information

Name of Municipality or Organization: Town of Boxborough

EPA NPDES Permit Number: MAR041183

**Primary MS4 Program Manager Contact Information**

Name: Edward Kukkula Title: DPW Director

Street Address Line 1: 873 Massachusetts Avenue

Street Address Line 2:

City: Boxborough State: MA Zip Code: 01719

Email: ekukkula@boxborough-ma.gov Phone Number: (978) 264-1792

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address): https://www.boxborough-ma.gov/247/Stormwater-Management-Program

Date SWMP was Last Updated: June 30, 2021

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)**

☐ Bacteria/Pathogens ☐ Chloride ☐ Nitrogen ☐ 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.*

Year 3 Requirements

☐ Inspected and screened all outfalls/interconnections (excluding Problem and Excluded outfalls)

☒ Updated outfall/interconnection priority ranking based on the information collected during the dry weather inspections as necessary

☐ Post-construction bylaw, ordinance, or other regulatory mechanism was updated and adopted consistent with permit requirements

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 3 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:

Dry Weather Outfall Screening - During Permit Year 2, the Town attempted to inspect all 25 known stormwater outfalls during dry weather for potential illicit discharges. Of the 25 known stormwater outfalls that were inspected, 22 were located and 1 of which was flowing. The flowing outfall was sampled and barely met the permit criteria for being highly likely to contain illicit discharges and will be resampled and/or further investigated for potential illicit discharges. The remaining 3 outfalls could not be located, however, will be inspected for dry weather flows as the outfalls are located and/or evaluated at the next upgradient structure. This work is expected to occur during Year 4. Note that no outfall screening was completed during Permit Year 3 as work was largely completed in the previous year.

Update Outfall Inventory and Priority Ranking - Outfall inventory and priority ranking was conducted concurrent with a comprehensive update of the SWMP and IDDE Plans, completed on June 30, 2021. The Town will continue to locate and inspect additional stormwater infrastructure during future permit years.

Construction and Post-Construction Bylaw - The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under Appendix B. The Town is currently in the process of adopting accompanying stormwater regulations to meet construction and post-construction requirements.

Annual Requirements

- ☒ Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- ☒ Kept records relating to the permit available for 5 years and made available to the public
- ☒ 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 website:
- ☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- ☒ Provided training to employees involved in IDDE program within the reporting period
- ☒ All curbed roadways were swept at least once within the reporting period
- ☒ Updated system map due in year 2 as necessary
- ☒ Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- ☒ Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- ☒ Updated inventory of all permittee owned facilities as necessary
- ☒ O&M programs for all permittee owned facilities have been completed and updated as necessary
- ☒ Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- ☒ Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- ☒ Inspected all permittee owned treatment structures (excluding catch basins)

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual 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:

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

Annual Requirements

*Public Education and Outreach**

- ☒ 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
- ☒ Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- ☒ 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)

*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:

Public Education and Outreach - the Town is part of the statewide ThinkBlue campaign which in part distributes a number of public outreach-related materials throughout the year. The Town also posted flyers on all three seasonal topics on its website for download at any time of the year.

Street Sweeping - streets were swept only once per year during Year 3. Note that only a small portion of southwestern Boxborough is located within the Assabet River watershed, and there are no known stormwater outfalls, catch basins, or other closed drainage infrastructure within this area. Stormwater runoff within this area simply sheetflows off the road via "country drainage" and thus there are no point-source stormwater contributions to the Assabet River or its tributaries. Thus, the Town is exempt from sweeping twice per year within these areas.

*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:

The Town updated its list of outfalls and receiving waters as new outfalls were found during the dry weather screening. The inspection results are attached to this annual report and a list and updated prioritization are also kept with the Town's IDDE Plan.

# 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**: 2

*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: Video, ThinkBlue Massachusetts "Fowl Water"**

Message Description and Distribution Method:

ThinkBlue Massachusetts "Fowl Water" video (https://www.thinkbluemassachusetts.org/) Advertisement on Facebook, Instagram, & YouTube.

Targeted Audience: Residents

Responsible Department/Parties: Information Technology

Measurable Goal(s):

Social media impressions for the town totaled 9,627.

Message Date(s): May 17th to June 4th, 2021

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: Web Page**

Message Description and Distribution Method:

Develop a town stormwater website with a links to external sites such as EPA and NHDES as well as provide stormwater brochures for download.

Targeted Audience: Residents, Businesses, institutions and commercial, Developers, Industrial

Responsible Department/Parties: Information Technology, Planning Board

Measurable Goal(s):

Creation of website with periodic updates.

Message Date(s):

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**:

SWMP Plan for Download - The Town has posted the SWMP Plan and other relevant information on Town website along with contact information to allow for public comment.

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**:

## 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: 0

Number of SSOs removed: 0

**MS4 System Mapping**

*Optional:* Provide additional status information regarding your map:

All known outfalls, stormwater BMPs, and receiving waterbodies with impairments have been mapped to date. Initial catchment delineations have also been completed based on topographic mapping and available stormwater system information. Mapping of open channel conveyances and any newly located outfalls is ongoing. Mapping interconnections with other MS4s (e.g. DOT) is ongoing, and it is expected that this will continue as part of DOT's own mapping efforts to be completed under a future TS4 permit.

**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 outfall screening data is attached to the email submission
- ○ The outfall screening data can be found at the following 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: 89

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

During Permit Year 2, the Town attempted to inspect all 25 known stormwater outfalls during dry weather for potential illicit discharges. Of the 25 known stormwater outfalls that were inspected, 22 were located and 1 of which was flowing. The flowing outfall was sampled and barely met the permit criteria for being highly likely to contain illicit discharges and will be resampled and/or further investigated for potential illicit discharges. The remaining 3 outfalls could not be located, however, will be inspected for dry weather flows as the outfalls are located and/or evaluated at the next upgradient structure. This work is expected to occur during Year 4. Note that no outfall screening was completed during Permit Year 3 as work was largely completed in the previous year.

**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 website:

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0

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

**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 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: 0

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: 0

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:

**Employee Training**

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

An on-site IDDE training session was held on July 22, 2021 with applicable DPW staff. This session also provided training on Stormwater Pollution Prevention Plan (SWPPP) implementation and inspections at the

DPW Garage and Transfer Station facilities. Note that training was provided just outside the reporting period, however, has been applied to Year 3 requirements.

## 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: 0

Number of inspections completed: 0

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

**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**

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

N/A, to be completed during Permit Year 4.

**Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

N/A, to be completed during Permit Year 4.

**Retrofit Properties Inventory**

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

The Town completed an inventory of its permittee-owned properties during this permit year. Facilities will be evaluated for potential BMP retrofit opportunities during Permit Year 4.

## 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: 516

Number of catch basins cleaned: 546

Total volume or mass of material removed from all catch basins: 70 cubic yards

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

Total number of catch basins: 550

*If applicable:*

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

The Town recently completed a substantial update to its Catch Basin Optimization Plan whereas all catch basins were visited in both 2019 and 2020 to determine sediment accumulation rates over the course of a year. The Town developed a list of priority catch basins and roadways that should be swept more frequently. The Town will look more closely at these areas in Permit Year 4 and beyond.

**Street Sweeping**

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

- (●) Number of miles cleaned: 33
- ( ) Volume of material removed: 18 cubic yards
- ( ) 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: 8

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

Note, inspections were completed quarterly at the DPW Garage and Transfer Station facilities.

## 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 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:

**COVID-19 Impacts**

*Optional:* If any of the above year 3 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 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

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)

Provide any additional details on activities planned for permit year 4 below:

# Part V: Certification of Small MS4 Annual Report 2021

**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: Carter Terenzini Title: Town Administrator

Signature: Carter Terenzini Date: 09/21/21

*[Signatory may be a duly authorized representative]*

*Note: When prompted during signing, save the document under a new file name.*

**Annual Report Submission**

*Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.*

EPA: stormwater.reports@epa.gov MassDEP: laura.schifman@mass.gov

**Paper Signature:**

*If you did not sign electronically above, you can print the signature page by clicking the button below.*

Print Signature Page

*Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.*

Lock Form