

## **North Attleborough MS4 Year 4 Annual Report Attachments**

Attachment 1: Delegation of Authority for Signature

Attachment 2: Nutrient Source Identification Report (BETA)

Attachment 3: Assessment of Current Regulations (BETA)

Attachment 4: Catch Basins Inspection List Year 4

Attachment 5: Outfall Inspection List

Michael D. Borg  
Town Manager



TOWN OF NORTH ATTLEBOROUGH  
43 South Washington Street  
North Attleborough MA 02760  
508-699-0100

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**INTEROFFICE MEMORANDUM**

**DATE:** Tuesday, June 16, 2020  
**TO:** Mark Hollowell, Director of Public Works  
**FROM:** Michael D. Borg *MJ 16 JUN 20*  
**RE:** Documentation for delegation of "Authorized Representative" for NPDES 2016 Massachusetts Small Municipal Separate Storm Sewer System (MS4) General Permit

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This document serves to affirm that **the DPW Director** has responsibility for the operation of the MS4 and is hereby designated as an authorized person for signing all reports including but not limited to the Stormwater Management Plan (SWMP), Stormwater Pollution Prevention Plans (SWPPPs), inspection reports, annual reports, monitoring reports, reports on training, and other information required by the General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4) in **Massachusetts for the Town of North Attleborough**. This authorization cannot be used for signing a NPDES permit application (e.g., Notice of Intent (NOI)) in accordance with 40 CFR 122.22).

By signing this authorization, I confirm that I meet the following requirements to make such a designation as set forth in Part B.11 of Appendix B of the Small MS4 General Permit:

*For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official.*

"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 gathered and evaluated 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, 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."

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*Michael Borg*  
**Michael Borg**  
Town Manager

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*16 JUN 20*  
**Date**

North Attleboro, MA  
Nutrient Source Identification Report  
MS4 Permit Year 4  
June 2022

## PHOSPHORUS LOADING

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**BETA**

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2nd Floor  
Norwood, Massachusetts 02062  
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Nutrient Source Identification Report  
North Attleboro, MA  
MS4 Permit Year 4

## PHOSPHORUS LOADING

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Prepared by: BETA GROUP, INC.  
Prepared for: Town of North Attleboro

June 2022

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## 1.0 INTRODUCTION

This report was developed to address phosphorus discharges within the Town of North Attleboro (the Town) to impaired waters. This was done in accordance with the 2016 MS4 General Permit (the Permit), Appendix H Requirements Related to Discharges to Certain Water Quality Limited Waterbodies Section I.1.b.

Pursuant to Sections 305(b), 314 and 303(d) of the Clean Water Act, Massachusetts Department of Environmental Protection (MassDEP) established water quality standards, and evaluated the conditions of Massachusetts' waters in the Final 2018/2020 Integrated List of Waters (§303(d) list). This list identifies waters that do not meet the water quality standards (referred to as "impaired" or "water quality limited") based on many causes. These causes may include phosphorus, nitrogen, nutrient/eutrophication biological indicators, benthic macroinvertebrates, and more.

Table 1-1 summarizes the status given to the receiving waters in the Town.

Table 1-1: Receiving Waters for Town of North Attleboro

| Receiving Water                      | Impairment for Phosphorus?                   |
|--------------------------------------|--|
| Abbott Run                           | N  |
| Lake Como<br>(MA52010)               | N  |
| Greenwood Lake<br>(MA52017)          | N  |
| Sevenmile River<br>(MA52-07)         | N  |
| Sevenmile River<br>(MA52-08)         | N  |
| Hoppin Hill Reservoir<br>(MA52021)   | N  |
| Scotts Brook<br>(MA52-09)            | N  |
| Falls Pond, South Basin<br>(MA52014) | N  |
| Falls Pond, North Basin<br>(MA52013) | Y  |
| Ten Mile River<br>(MA52-02)          | N  |
| Whiting Pond<br>(MA52042)            | N  |
| Bungay River<br>(MA52-06)            | N  |
| Ten Mile River Watershed             | Approved Out of State TMDL<br>for Phosphorus |

Due to the stormwater discharges to an impaired watershed (Ten Mile River Watershed) and waterbody (Falls Pond, North Basin) and its tributaries, the Town must submit this Nutrient Source Identification Report (NSIR) by the end of Permit Year 4 which includes:

- Calculation of total MS4 area draining to the water quality limited water segments or their tributaries, incorporating updated mapping of the MS4 and catchment delineations produced pursuant to part 2.3.4.6,
- All screening and monitoring results pursuant to part 2.3.4.7.b., targeting the receiving water segment(s)
- Impervious area and DCIA for the target catchment
- Identification, delineation and prioritization of potential catchments with high phosphorus loading
- Identification of potential retrofit opportunities or opportunities for the installation of structural BMPs during redevelopment.

## 2.0 CALCULATION METHODS

The following are data sources and methods utilized in the analysis of nutrient source loading in North Attleboro.

### 2.1 DATA SOURCES

Data layers were downloaded and analyzed in the desktop application ArcMap 10.5.

- Base Shapefile
  - 2016 Land Cover / Land Use from MassGIS, Dated May 2019.  
Contains information on impervious and pervious land cover by land use type.
  - Natural Resources Conservation Service (NRCS) Soils Database from USDA, Last Modified 07/31/2019.  
Contains soil type data throughout Town.
- Outfall Catchment Delineations Shapefile
  - Town Catchment Delineations completed by BETA, Updated Yearly.  
Contains catchment areas mapped based on stormwater and topography.

### 2.2 METHODOLOGY

The methods of data analysis followed the Neponset River Watershed Association's Nutrient Source Identification Report Addendum: Methods, dated June 10, 2021.

#### 2.2.1 BASE SHAPEFILE

Data downloaded from the above data sources for Massachusetts were clipped to the limits of the Town of North Attleboro. A base shapefile was created through the ArcMap "union" operation between the 2016 Land Cover / Land Use layer and the Natural Resources Conservation Service (NRCS) Soils Database, producing a dataset with information on land cover, land use, and soil types.

#### 2.2.2 TOWN CATCHMENT SHAPEFILE

The Town's catchment delineation shapefile was prepared for further analysis by adding and calculating a catchment area field, removing areas that were non-MS4, and removing areas that do not discharge to a phosphorus water quality impaired waterbody.

### 2.2.3 FINAL TOWN SHAPEFILE

Once the data layers were prepared, the ArcMap “intersect” operation was run between the edited catchment area shapefile and the base shapefile. This produced land use, land cover and soil data within each catchment area.

Operations were then performed on various fields within the new dataset to be able to calculate the following values based on land use within each catchment area:

- Area: The area of a record
- Impervious Area: The area of impervious surfaces occupied by a record
- Impervious Area Percentage: The amount of impervious area in a record as a percentage of the overall catchment area

$$\text{Impervious Area Percentage} = \frac{\text{Impervious Percentage}}{100} * \text{Catchment Area}$$

- DCIA Percentage: An estimate of DCIA represented by a record  
$$\text{DCIA Percentage} = \text{Max DCIA M} * (\text{Impervious Area Percentage})^{\text{Max DCIA E}}$$
where Max DCIA M is the multiplier and Max DCIA Exponent is the exponent from the applicable Sutherland equation.

- DCIA Area: An estimate of the amount of DCIA associated with a record

$$\text{DCIA Area} = \frac{\text{DCIA Percentage}}{100} * \text{Catchment Area}$$

- Estimated Phosphorus Load

$$\text{Estimated Phosphorus Load} = \text{Area} * \text{Max PLER}$$

where Max PLER is the phosphorus loading category to which a record was assigned based on Table 1-2 in Attachment 1 of Appendix F of the 2016 Massachusetts Small MS4 General Permit.

The final shapefile was created using the ArcMap “dissolve” operation based on catchment area IDs, which combined the areas, impervious areas, impervious percentages, DCIA areas, DCIA percentages, and estimated phosphorus loadings within each catchment broken down by land use, to produce total values of those features for each catchment area.

### 3.0 IMPERVIOUS AREA AND DIRECTLY CONNECTED IMPERVIOUS AREA

Impervious area is the land that is paved, covered by buildings, and otherwise developed and unable to absorb water naturally.

Directly connected impervious area (DCIA) is the amount of impervious area that is directly connected to the storm drain system. Most land in Town was developed before modern requirements of capturing, cleaning, slowing down, and recharging stormwater runoff using stormwater control measures (SCMs). Therefore, some properties may have no SCMs, some have SCMs that meet some modern standards, and others have full compliance with modern standards. Since parcel-specific data of SCMs is not available, the DCIA estimate approximates the average level of SCMs installed throughout Town. DCIA was estimated based on land use categories following EPA guidance.

Table 3-1 summarizes the total impervious area (IA) and estimated DCIA in MS4 regulated areas of Town that are tributary to the Phosphorus impaired waters.

Table 3-1: Impervious Area and DCIA

| Impervious Area (Acres) | Estimated DCIA (Acres) | Total (Acres) |
|-------------------------|------------------------|---------------|
| 736.78                  | 122.84                 | 859.62        |

Appendix A contains a table of impervious area and DCIA estimates for the Town's MS4 catchment areas. Table 3-2 shows the same information for the ten catchments with the most impervious area in Town. The catchments are labeled by the outfall to which they drain.

Table 3-2: Total Impervious Area and DCIA for 10 Most Impervious Catchments

| Catchment Identifier   | Impervious Area (Acres) | Percent Impervious | DCIA (Acres) | Percent DCIA |
|--|-------------------------|--------------------|--------------|--------------|
| OF-132   | 53.71                   | 58.20%             | 10.29        | 11.15%       |
| OF-58  | 46.82                   | 34.60%             | 8.04         | 5.94%        |
| OF-129   | 34.84                   | 66.86%             | 6.27         | 12.04%       |
| OF-128   | 33.70                   | 20.46%             | 4.06         | 2.47%        |
| OF-424   | 31.78                   | 16.02%             | 2.06         | 1.04%        |
| OF-29  | 31.01                   | 37.17%             | 3.83         | 4.59%        |
| OF-394   | 22.84                   | 27.71%             | 3.34         | 4.06%        |
| OF-60  | 21.82                   | 33.20%             | 2.89         | 4.39%        |
| OF-176   | 21.47                   | 44.14%             | 2.81         | 5.78%        |
| OF-40  | 20.54                   | 69.03%             | 5.96         | 20.04%       |
| Top 10 Catchments as a % of Town Total from Table 3-1 (Impervious 736.78 acres; DCIA 122.84 acres) | 43.23%                  |                    | 40.34%       |              |

## 4.0 ESTIMATED NUTRIENT LOADING FROM CATCHMENT AREAS

Following the methods described in Section 2.2 of this report, phosphorus loading potential estimates were calculated for each of the outfall catchments. Appendix B includes the table of phosphorus loading estimates for all MS4 catchments in Town that are tributary to Phosphorus impaired waters. Table 4-1 shows the five catchments with the highest estimated phosphorus loading.

Table 4-1: Estimated Phosphorus Loading for 5 Highest Load Town Catchments

| Catchment Identifier                              | Estimated P Load (Lbs/Yr) |
|---|---------------------------|
| OF-424  | 287.29                    |
| OF-299  | 287.28                    |
| OF-318  | 214.29                    |
| OF-58   | 213.16                    |
| OF-128  | 212.45                    |
| Top 5 as a % of Total Town Load (4,248.82 Lbs/Yr) | 28.58%                    |

## 5.0 OUTFALL SCREENING AND SAMPLING RESULTS

As of the writing of this report, complete outfall screening results were not available.

## 6.0 CATCHMENT PRIORITIZATION

Catchments have been prioritized based on phosphorus loading estimates, as shown in the table included in Appendix B. The five catchments with the highest estimated phosphorus loading are shown in a map in Appendix C. It is important to note that since no outfall sampling data was available on field findings of phosphorus levels, this report could only analyze based on estimated values.

## 7.0 STORMWATER BEST MANAGEMENT PRACTICES (BMPs)

### 7.1 EXISTING BMP LOCATIONS

The Town currently has 11 Stormwater Best Management Practices (BMPs) implemented, as shown in the map in Appendix C. These BMPs include:

- Stormwater Basins
- Water Quality Units
- Leaching Pits

Appendix D includes nutrient removal calculations for the infiltration BMPs in Town.

Although some stormwater BMPs are located within a few MS4 catchment areas, none of the nutrient removal BMPs are located within the 5 catchment areas with the highest estimated phosphorus loading from Table 4-1.

### 7.2 POTENTIAL RETROFIT OPPORTUNITIES

Town parcels were examined for the following characteristics important when selecting a location for a BMP retrofit:

- Land Ownership
- Soil Type
- Depth to Water Table
- Proximity to Potential Subsurface Areas of Concern (ie. Contaminated Sites, Zone 2 Watershed Protection Areas)
- Opportunities for Public Use and Education
- Ability for the Town to Access for Maintenance
- Presence of Stormwater Infrastructure Existing in the Area
- Discharges to a Receiving Water (Water Quality Limited, First or Second Order Streams, Public Swimming Beaches, Drinking Water Supply Sources, Shellfish Growing Areas)
- Amount of Impervious Area.

Parcels selected through this process are potential locations suitable for further assessment of BMP and impervious area reduction opportunities. When selecting locations, parcels within each of the 5 high nutrient loading catchments were prioritized. The priority ranking matrix and a map showing the locations are included in Appendix E. Note that all parcels listed are Town-owned, as Town-owned properties often present the fewest barriers to BMP development. These sites should be visited first when performing reconnaissance work to determine the feasibility of constructing a BMP at one or more of these sites to reduce pollutant loading to the Town's MS4. Additionally, it should be noted that rights-of-way were not included in this analysis, but they are often highly desirable sites for BMPs. All rights-of-way, particularly in the high loading catchment areas and where roadway or utility projects are being proposed, should be considered for BMP retrofits in addition to individual parcels.

# APPENDIX A

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- Impervious / DCIA Summary by Catchment

Appendix A: Impervious / DCIA Summary by Catchment

| Catchment Identifier | Impervious Area (Acres) | Percent Impervious | DCIA (Acres) | Percent DCIA |
|----------------------|-------------------------|--------------------|--------------|--------------|
| OF-132               | 53.71                   | 58.20              | 10.29        | 11.15        |
| OF-58                | 46.82                   | 34.60              | 8.04         | 5.94         |
| OF-129               | 34.84                   | 66.86              | 6.27         | 12.04        |
| OF-128               | 33.70                   | 20.46              | 4.06         | 2.47         |
| OF-424               | 31.78                   | 16.02              | 2.06         | 1.04         |
| OF-29                | 31.01                   | 37.17              | 3.83         | 4.59         |
| OF-394               | 22.84                   | 27.71              | 3.34         | 4.06         |
| OF-60                | 21.82                   | 33.20              | 2.89         | 4.39         |
| OF-176               | 21.47                   | 44.14              | 2.81         | 5.78         |
| OF-40                | 20.54                   | 69.03              | 5.96         | 20.04        |
| OF-148               | 17.52                   | 16.10              | 1.62         | 1.49         |
| OF-299               | 17.18                   | 6.15               | 2.20         | 0.79         |
| OF-67                | 15.86                   | 24.00              | 1.19         | 1.80         |
| OF-131               | 15.20                   | 48.99              | 2.40         | 7.73         |
| OF-306               | 14.23                   | 59.63              | 3.00         | 12.56        |
| OF-338               | 13.22                   | 12.11              | 0.71         | 0.65         |
| OF-342               | 12.09                   | 4.75               | 0.48         | 0.19         |
| OF-318               | 11.46                   | 3.54               | 0.24         | 0.07         |
| OF-146               | 11.42                   | 16.15              | 0.88         | 1.25         |
| OF-398               | 9.77                    | 40.11              | 2.65         | 10.86        |
| OF-16                | 9.40                    | 27.25              | 2.03         | 5.88         |
| OF-10                | 8.42                    | 26.40              | 1.45         | 4.55         |
| OF-321               | 8.29                    | 13.99              | 0.72         | 1.21         |
| OF-86                | 8.14                    | 22.58              | 0.69         | 1.91         |
| OF-386               | 7.63                    | 58.09              | 3.50         | 26.67        |
| OF-396               | 7.36                    | 37.96              | 1.22         | 6.30         |
| OF-360               | 6.99                    | 7.13               | 0.35         | 0.36         |
| OF-28                | 6.73                    | 20.61              | 0.54         | 1.64         |
| OF-149               | 6.59                    | 37.30              | 0.19         | 1.08         |
| OF-130               | 6.10                    | 47.21              | 1.87         | 14.48        |
| OF-388               | 5.93                    | 43.78              | 1.42         | 10.46        |
| OF-81                | 5.69                    | 18.40              | 0.57         | 1.86         |
| OF-68                | 5.44                    | 21.70              | 0.37         | 1.49         |
| OF-140               | 5.39                    | 64.97              | 1.44         | 17.35        |
| OF-383               | 5.34                    | 33.04              | 0.55         | 3.40         |
| OF-44                | 5.02                    | 13.36              | 1.26         | 3.36         |
| OF-423               | 4.77                    | 69.01              | 1.62         | 23.47        |
| OF-136               | 4.23                    | 20.39              | 0.57         | 2.76         |
| OF-291               | 4.09                    | 20.19              | 0.64         | 3.18         |
| OF-172               | 4.08                    | 50.04              | 0.62         | 7.59         |
| OF-37                | 3.93                    | 86.94              | 1.32         | 29.22        |
| OF-359               | 3.79                    | 22.25              | 0.46         | 2.67         |
| OF-366               | 3.79                    | 23.10              | 0.70         | 4.25         |

Appendix A: Impervious / DCIA Summary by Catchment

| Catchment Identifier | Impervious Area (Acres) | Percent Impervious | DCIA (Acres) | Percent DCIA |
|----------------------|-------------------------|--------------------|--------------|--------------|
| OF-375               | 3.78                    | 23.51              | 0.46         | 2.83         |
| OF-237               | 3.75                    | 3.80               | 0.21         | 0.21         |
| OF-38                | 3.64                    | 65.19              | 0.81         | 14.46        |
| OF-43                | 3.59                    | 38.64              | 1.11         | 11.97        |
| OF-309               | 3.56                    | 15.27              | 0.42         | 1.81         |
| OF-4                 | 3.37                    | 12.84              | 0.23         | 0.87         |
| OF-413               | 3.18                    | 14.45              | 0.32         | 1.45         |
| OF-185               | 3.09                    | 48.13              | 1.13         | 17.70        |
| OF-430               | 2.87                    | 47.23              | 0.87         | 14.38        |
| OF-91                | 2.74                    | 26.91              | 0.40         | 3.92         |
| OF-76                | 2.69                    | 30.22              | 0.37         | 4.14         |
| OF-138               | 2.65                    | 35.72              | 1.20         | 16.16        |
| OF-279               | 2.49                    | 3.56               | 0.14         | 0.20         |
| OF-72                | 2.43                    | 32.82              | 0.38         | 5.14         |
| OF-141               | 2.38                    | 19.48              | 0.50         | 4.09         |
| OF-151               | 2.31                    | 21.14              | 0.27         | 2.44         |
| OF-79                | 2.31                    | 40.17              | 0.77         | 13.37        |
| OF-15                | 2.30                    | 51.69              | 0.88         | 19.87        |
| OF-96                | 2.04                    | 43.40              | 0.59         | 12.64        |
| OF-69                | 2.01                    | 52.01              | 0.60         | 15.63        |
| OF-392               | 1.94                    | 34.58              | 0.59         | 10.56        |
| OF-389               | 1.89                    | 9.10               | 0.19         | 0.90         |
| OF-421               | 1.88                    | 15.68              | 0.24         | 1.99         |
| OF-328               | 1.86                    | 11.35              | 0.21         | 1.31         |
| OF-71                | 1.84                    | 41.88              | 0.44         | 9.96         |
| OF-107               | 1.83                    | 10.84              | 0.19         | 1.13         |
| OF-376               | 1.80                    | 26.91              | 0.28         | 4.26         |
| OF-201               | 1.68                    | 28.84              | 0.42         | 7.17         |
| OF-315               | 1.62                    | 25.63              | 0.37         | 5.87         |
| OF-304               | 1.62                    | 17.37              | 0.21         | 2.24         |
| OF-395               | 1.52                    | 3.99               | 0.17         | 0.46         |
| OF-188               | 1.52                    | 32.91              | 0.43         | 9.39         |
| OF-110               | 1.50                    | 20.19              | 0.22         | 2.91         |
| OF-19                | 1.48                    | 27.80              | 0.28         | 5.27         |
| OF-74                | 1.40                    | 26.69              | 0.20         | 3.81         |
| OF-234               | 1.39                    | 6.14               | 0.11         | 0.47         |
| OF-313               | 1.29                    | 27.80              | 0.30         | 6.48         |
| OF-418               | 1.27                    | 26.24              | 0.21         | 4.34         |
| OF-98                | 1.21                    | 42.46              | 0.50         | 17.61        |
| OF-222               | 1.21                    | 31.83              | 0.31         | 8.28         |
| OF-139               | 1.18                    | 33.29              | 0.21         | 6.00         |
| OF-438               | 1.18                    | 36.94              | 0.44         | 13.62        |
| OF-41                | 1.15                    | 68.86              | 0.20         | 12.00        |

Appendix A: Impervious / DCIA Summary by Catchment

| Catchment Identifier | Impervious Area (Acres) | Percent Impervious | DCIA (Acres) | Percent DCIA |
|----------------------|-------------------------|--------------------|--------------|--------------|
| OF-327               | 1.14                    | 13.75              | 0.24         | 2.84         |
| OF-416               | 1.14                    | 30.18              | 0.31         | 8.32         |
| OF-100               | 1.13                    | 32.84              | 0.27         | 7.94         |
| OF-36                | 1.10                    | 26.49              | 0.22         | 5.28         |
| OF-106               | 1.10                    | 40.59              | 0.34         | 12.66        |
| OF-105               | 1.09                    | 31.04              | 0.23         | 6.65         |
| OF-145               | 1.06                    | 24.06              | 0.29         | 6.63         |
| OF-303               | 0.99                    | 46.13              | 0.03         | 1.29         |
| OF-125               | 0.99                    | 17.34              | 0.01         | 0.22         |
| OF-417               | 0.97                    | 31.28              | 0.24         | 7.63         |
| OF-324               | 0.96                    | 28.64              | 0.22         | 6.67         |
| OF-374               | 0.94                    | 27.76              | 0.29         | 8.52         |
| OF-278               | 0.92                    | 8.13               | 0.15         | 1.34         |
| OF-42                | 0.89                    | 55.76              | 0.63         | 39.33        |
| OF-414               | 0.85                    | 14.21              | 0.12         | 1.93         |
| OF-178               | 0.82                    | 28.71              | 0.31         | 10.72        |
| OF-104               | 0.82                    | 27.94              | 0.20         | 6.71         |
| OF-47                | 0.79                    | 30.18              | 0.19         | 7.21         |
| OF-35                | 0.78                    | 34.20              | 0.20         | 8.99         |
| OF-95                | 0.77                    | 32.18              | 0.24         | 9.98         |
| OF-378               | 0.77                    | 38.82              | 0.27         | 13.59        |
| OF-353               | 0.75                    | 21.00              | 0.15         | 4.24         |
| OF-187               | 0.75                    | 24.45              | 0.20         | 6.65         |
| OF-177               | 0.72                    | 38.85              | 0.30         | 16.10        |
| OF-119               | 0.71                    | 25.42              | 0.15         | 5.41         |
| OF-103               | 0.70                    | 50.92              | 0.20         | 14.96        |
| OF-428               | 0.69                    | 48.46              | 0.23         | 16.05        |
| OF-277               | 0.69                    | 20.67              | 0.12         | 3.60         |
| OF-70                | 0.69                    | 37.63              | 0.19         | 10.25        |
| OF-46                | 0.67                    | 21.88              | 0.17         | 5.48         |
| OF-18                | 0.64                    | 27.17              | 0.22         | 9.09         |
| OF-9                 | 0.64                    | 17.00              | 0.11         | 2.82         |
| OF-322               | 0.61                    | 32.48              | 0.22         | 11.62        |
| OF-358               | 0.60                    | 31.04              | 0.12         | 6.15         |
| OF-77                | 0.58                    | 29.80              | 0.15         | 7.91         |
| OF-354               | 0.56                    | 40.40              | 0.21         | 15.35        |
| OF-85                | 0.55                    | 26.68              | 0.11         | 5.49         |
| OF-431               | 0.54                    | 20.68              | 0.09         | 3.23         |
| OF-3                 | 0.53                    | 29.44              | 0.16         | 8.71         |
| OF-161               | 0.52                    | 6.95               | 0.05         | 0.64         |
| OF-223               | 0.51                    | 31.07              | 0.17         | 10.38        |
| OF-333               | 0.51                    | 12.91              | 0.09         | 2.17         |
| OF-331               | 0.51                    | 23.77              | 0.16         | 7.43         |

Appendix A: Impervious / DCIA Summary by Catchment

| Catchment Identifier | Impervious Area (Acres) | Percent Impervious | DCIA (Acres) | Percent DCIA |
|----------------------|-------------------------|--------------------|--------------|--------------|
| OF-336               | 0.50                    | 13.79              | 0.18         | 4.86         |
| OF-160               | 0.50                    | 4.06               | 0.06         | 0.46         |
| OF-258               | 0.50                    | 8.87               | 0.06         | 1.14         |
| OF-117               | 0.50                    | 38.28              | 0.18         | 14.23        |
| OF-406               | 0.49                    | 26.83              | 0.13         | 7.23         |
| OF-137               | 0.47                    | 58.34              | 0.16         | 19.33        |
| OF-169               | 0.47                    | 19.72              | 0.18         | 7.53         |
| OF-13                | 0.46                    | 53.21              | 0.22         | 25.49        |
| OF-180               | 0.46                    | 40.40              | 0.21         | 18.20        |
| OF-152               | 0.45                    | 39.56              | 0.21         | 18.26        |
| OF-27                | 0.44                    | 12.44              | 0.08         | 2.15         |
| OF-352               | 0.44                    | 31.28              | 0.11         | 8.12         |
| OF-179               | 0.44                    | 55.90              | 0.33         | 41.80        |
| OF-45                | 0.43                    | 42.26              | 0.20         | 19.59        |
| OF-390               | 0.43                    | 39.24              | 0.18         | 16.20        |
| OF-403               | 0.40                    | 25.84              | 0.12         | 8.01         |
| OF-64                | 0.39                    | 35.64              | 0.11         | 9.87         |
| OF-301               | 0.39                    | 7.36               | 0.10         | 1.98         |
| OF-317               | 0.39                    | 30.98              | 0.14         | 10.90        |
| OF-8                 | 0.37                    | 16.36              | 0.09         | 3.86         |
| OF-283               | 0.37                    | 24.32              | 0.18         | 11.97        |
| OF-66                | 0.33                    | 34.52              | 0.10         | 10.24        |
| OF-379               | 0.32                    | 40.59              | 0.11         | 14.34        |
| OF-73                | 0.32                    | 41.40              | 0.12         | 15.02        |
| OF-382               | 0.31                    | 93.13              | 0.25         | 75.51        |
| OF-380               | 0.30                    | 24.86              | 0.10         | 8.67         |
| OF-288               | 0.27                    | 10.70              | 0.06         | 2.49         |
| OF-292               | 0.27                    | 22.37              | 0.05         | 4.45         |
| OF-83                | 0.26                    | 14.97              | 0.06         | 3.55         |
| OF-163               | 0.25                    | 13.18              | 0.05         | 2.44         |
| OF-11                | 0.24                    | 39.71              | 0.12         | 19.35        |
| OF-355               | 0.24                    | 31.95              | 0.08         | 10.41        |
| OF-425               | 0.24                    | 67.26              | 0.17         | 46.40        |
| OF-48                | 0.22                    | 54.39              | 0.11         | 26.77        |
| OF-280               | 0.21                    | 47.71              | 0.15         | 32.96        |
| OF-97                | 0.21                    | 62.28              | 0.17         | 49.09        |
| OF-173               | 0.21                    | 90.98              | 0.00         | 0.00         |
| OF-236               | 0.20                    | 40.69              | 0.11         | 21.63        |
| OF-407               | 0.19                    | 49.12              | 0.11         | 27.42        |
| OF-1                 | 0.18                    | 32.90              | 0.07         | 13.12        |
| OF-90                | 0.17                    | 60.29              | 0.08         | 30.00        |
| OF-337               | 0.16                    | 9.91               | 0.05         | 3.09         |
| OF-401               | 0.16                    | 44.52              | 0.07         | 19.76        |

Appendix A: Impervious / DCIA Summary by Catchment

| Catchment Identifier | Impervious Area (Acres) | Percent Impervious | DCIA (Acres) | Percent DCIA |
|----------------------|-------------------------|--------------------|--------------|--------------|
| OF-89                | 0.16                    | 56.04              | 0.09         | 31.13        |
| OF-393               | 0.14                    | 78.75              | 0.13         | 68.40        |
| OF-323               | 0.14                    | 13.21              | 0.03         | 2.85         |
| OF-284               | 0.14                    | 93.61              | 0.13         | 88.56        |
| OF-162               | 0.13                    | 14.40              | 0.03         | 3.80         |
| OF-412               | 0.13                    | 49.71              | 0.09         | 35.05        |
| OF-51                | 0.12                    | 59.53              | 0.07         | 32.43        |
| OF-422               | 0.11                    | 26.27              | 0.05         | 11.44        |
| OF-404               | 0.11                    | 51.83              | 0.05         | 26.02        |
| OF-2                 | 0.10                    | 33.48              | 0.04         | 12.33        |
| OF-419               | 0.10                    | 37.15              | 0.04         | 16.24        |
| OF-62                | 0.09                    | 48.49              | 0.05         | 26.13        |
| OF-238               | 0.09                    | 59.90              | 0.07         | 45.75        |
| OF-144               | 0.09                    | 49.98              | 0.05         | 25.89        |
| OF-387               | 0.08                    | 70.31              | 0.05         | 43.72        |
| OF-357               | 0.08                    | 61.76              | 0.07         | 48.33        |
| OF-182               | 0.08                    | 37.22              | 0.05         | 22.71        |
| OF-325               | 0.07                    | 54.78              | 0.05         | 40.54        |
| OF-384               | 0.07                    | 90.51              | 0.06         | 83.75        |
| OF-26                | 0.07                    | 23.73              | 0.02         | 8.68         |
| OF-114               | 0.05                    | 27.01              | 0.02         | 9.89         |
| OF-61                | 0.04                    | 86.70              | 0.04         | 72.93        |
| OF-426               | 0.04                    | 93.43              | 0.03         | 66.57        |
| OF-330               | 0.04                    | 37.02              | 0.03         | 22.44        |
| OF-287               | 0.04                    | 96.10              | 0.04         | 94.19        |
| OF-410               | 0.03                    | 24.00              | 0.02         | 11.70        |
| OF-300               | 0.03                    | 2.50               | 0.02         | 1.19         |
| OF-385               | 0.03                    | 79.20              | 0.02         | 70.40        |
| OF-6                 | 0.02                    | 18.53              | 0.01         | 7.90         |
| OF-212               | 0.02                    | 50.85              | 0.01         | 36.26        |
| OF-298               | 0.01                    | 1.42               | 0.00         | 0.61         |
| OF-286               | 0.01                    | 7.03               | 0.00         | 1.87         |
| OF-290               | 0.00                    | 0.48               | 0.00         | 0.03         |
| OF-289               | 0.00                    | 3.91               | 0.00         | 0.67         |
| OF-224               | 0.00                    | 0.00               | 0.00         | 0.00         |

# APPENDIX B

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- Estimated Phosphorus Loading Summary by Catchment

Appendix B: Estimated Phosphorus Loading Summary by Catchment

| Catchment Identifier | Estimated P Load (Lbs/Yr) |
|----------------------|---------------------------|
| OF-424               | 287.29                    |
| OF-299               | 287.28                    |
| OF-318               | 214.29                    |
| OF-58                | 213.16                    |
| OF-128               | 212.45                    |
| OF-338               | 175.03                    |
| OF-132               | 163.80                    |
| OF-29                | 143.87                    |
| OF-342               | 134.24                    |
| OF-60                | 111.97                    |
| OF-394               | 106.36                    |
| OF-67                | 102.40                    |
| OF-148               | 88.44                     |
| OF-321               | 88.16                     |
| OF-360               | 78.44                     |
| OF-129               | 77.70                     |
| OF-16                | 65.36                     |
| OF-40                | 55.54                     |
| OF-28                | 55.08                     |
| OF-86                | 53.62                     |
| OF-237               | 53.18                     |
| OF-176               | 49.12                     |
| OF-131               | 44.66                     |
| OF-81                | 44.27                     |
| OF-146               | 44.05                     |
| OF-4                 | 42.18                     |
| OF-44                | 41.89                     |
| OF-306               | 39.34                     |
| OF-398               | 38.79                     |
| OF-10                | 38.00                     |
| OF-68                | 37.49                     |
| OF-309               | 33.18                     |
| OF-328               | 30.73                     |
| OF-279               | 30.23                     |
| OF-396               | 29.44                     |
| OF-386               | 28.50                     |
| OF-366               | 28.34                     |
| OF-375               | 27.17                     |
| OF-359               | 26.45                     |
| OF-413               | 24.82                     |
| OF-107               | 23.78                     |
| OF-388               | 23.40                     |
| OF-291               | 22.50                     |

|        |       |
|--------|-------|
| OF-130 | 20.37 |
| OF-234 | 20.00 |
| OF-91  | 19.09 |
| OF-421 | 18.22 |
| OF-76  | 16.21 |
| OF-327 | 15.70 |
| OF-395 | 15.60 |
| OF-383 | 15.18 |
| OF-389 | 14.64 |
| OF-304 | 14.08 |
| OF-110 | 13.77 |
| OF-136 | 13.17 |
| OF-72  | 12.72 |
| OF-423 | 12.63 |
| OF-315 | 11.48 |
| OF-430 | 11.44 |
| OF-392 | 11.12 |
| OF-140 | 10.78 |
| OF-43  | 10.48 |
| OF-201 | 10.20 |
| OF-258 | 10.02 |
| OF-79  | 10.01 |
| OF-19  | 9.38  |
| OF-141 | 9.26  |
| OF-414 | 9.22  |
| OF-161 | 8.87  |
| OF-185 | 8.70  |
| OF-74  | 8.52  |
| OF-418 | 8.31  |
| OF-96  | 8.09  |
| OF-313 | 7.83  |
| OF-71  | 7.72  |
| OF-38  | 7.69  |
| OF-333 | 7.47  |
| OF-9   | 6.86  |
| OF-188 | 6.80  |
| OF-27  | 6.76  |
| OF-69  | 6.74  |
| OF-105 | 6.67  |
| OF-37  | 6.67  |
| OF-416 | 6.65  |
| OF-149 | 6.62  |
| OF-100 | 6.48  |

|        |      |
|--------|------|
| OF-36  | 6.33 |
| OF-324 | 6.19 |
| OF-353 | 6.13 |
| OF-301 | 6.13 |
| OF-376 | 6.08 |
| OF-138 | 5.89 |
| OF-15  | 5.89 |
| OF-374 | 5.88 |
| OF-438 | 5.77 |
| OF-277 | 5.71 |
| OF-222 | 5.60 |
| OF-172 | 5.54 |
| OF-417 | 5.44 |
| OF-104 | 5.43 |
| OF-119 | 5.12 |
| OF-98  | 5.07 |
| OF-106 | 5.04 |
| OF-46  | 4.72 |
| OF-47  | 4.61 |
| OF-160 | 4.55 |
| OF-139 | 4.50 |
| OF-431 | 4.48 |
| OF-8   | 4.28 |
| OF-95  | 4.25 |
| OF-35  | 4.21 |
| OF-18  | 4.10 |
| OF-336 | 4.09 |
| OF-85  | 3.88 |
| OF-331 | 3.67 |
| OF-42  | 3.57 |
| OF-77  | 3.55 |
| OF-278 | 3.53 |
| OF-322 | 3.40 |
| OF-358 | 3.39 |
| OF-151 | 3.38 |
| OF-378 | 3.34 |
| OF-406 | 3.31 |
| OF-83  | 3.28 |
| OF-3   | 3.17 |
| OF-177 | 3.11 |
| OF-70  | 2.97 |
| OF-145 | 2.90 |
| OF-187 | 2.76 |

Appendix B: Estimated Phosphorus Loading Summary by Catchment

| Catchment Identifier | Estimated P Load (Lbs/Yr) |
|----------------------|---------------------------|
| OF-163               | 2.59                      |
| OF-103               | 2.55                      |
| OF-354               | 2.54                      |
| OF-428               | 2.52                      |
| OF-352               | 2.47                      |
| OF-300               | 2.43                      |
| OF-117               | 2.37                      |
| OF-178               | 2.34                      |
| OF-380               | 2.22                      |
| OF-223               | 2.09                      |
| OF-323               | 2.06                      |
| OF-403               | 1.96                      |
| OF-125               | 1.91                      |
| OF-41                | 1.91                      |
| OF-64                | 1.86                      |
| OF-390               | 1.85                      |
| OF-45                | 1.69                      |
| OF-292               | 1.67                      |
| OF-66                | 1.60                      |
| OF-298               | 1.52                      |
| OF-73                | 1.41                      |
| OF-355               | 1.36                      |
| OF-13                | 1.36                      |
| OF-169               | 1.30                      |
| OF-379               | 1.28                      |
| OF-152               | 1.13                      |
| OF-317               | 1.04                      |
| OF-288               | 0.96                      |
| OF-11                | 0.95                      |
| OF-180               | 0.90                      |
| OF-283               | 0.88                      |
| OF-236               | 0.86                      |
| OF-137               | 0.84                      |
| OF-179               | 0.83                      |
| OF-162               | 0.78                      |
| OF-303               | 0.73                      |
| OF-425               | 0.69                      |
| OF-48                | 0.65                      |
| OF-382               | 0.60                      |
| OF-401               | 0.59                      |
| OF-2                 | 0.54                      |
| OF-337               | 0.53                      |
| OF-89                | 0.50                      |

|        |      |
|--------|------|
| OF-97  | 0.49 |
| OF-26  | 0.48 |
| OF-90  | 0.47 |
| OF-407 | 0.46 |
| OF-280 | 0.43 |
| OF-51  | 0.38 |
| OF-419 | 0.38 |
| OF-1   | 0.35 |
| OF-62  | 0.34 |
| OF-422 | 0.32 |
| OF-393 | 0.31 |
| OF-412 | 0.27 |
| OF-284 | 0.25 |
| OF-114 | 0.23 |
| OF-404 | 0.21 |
| OF-325 | 0.20 |
| OF-387 | 0.19 |
| OF-144 | 0.18 |
| OF-238 | 0.17 |
| OF-357 | 0.16 |
| OF-290 | 0.15 |
| OF-182 | 0.15 |
| OF-330 | 0.14 |
| OF-384 | 0.12 |
| OF-6   | 0.12 |
| OF-61  | 0.09 |
| OF-410 | 0.07 |
| OF-287 | 0.07 |
| OF-426 | 0.06 |
| OF-212 | 0.05 |
| OF-173 | 0.05 |
| OF-385 | 0.05 |
| OF-286 | 0.04 |
| OF-224 | 0.02 |
| OF-289 | 0.01 |

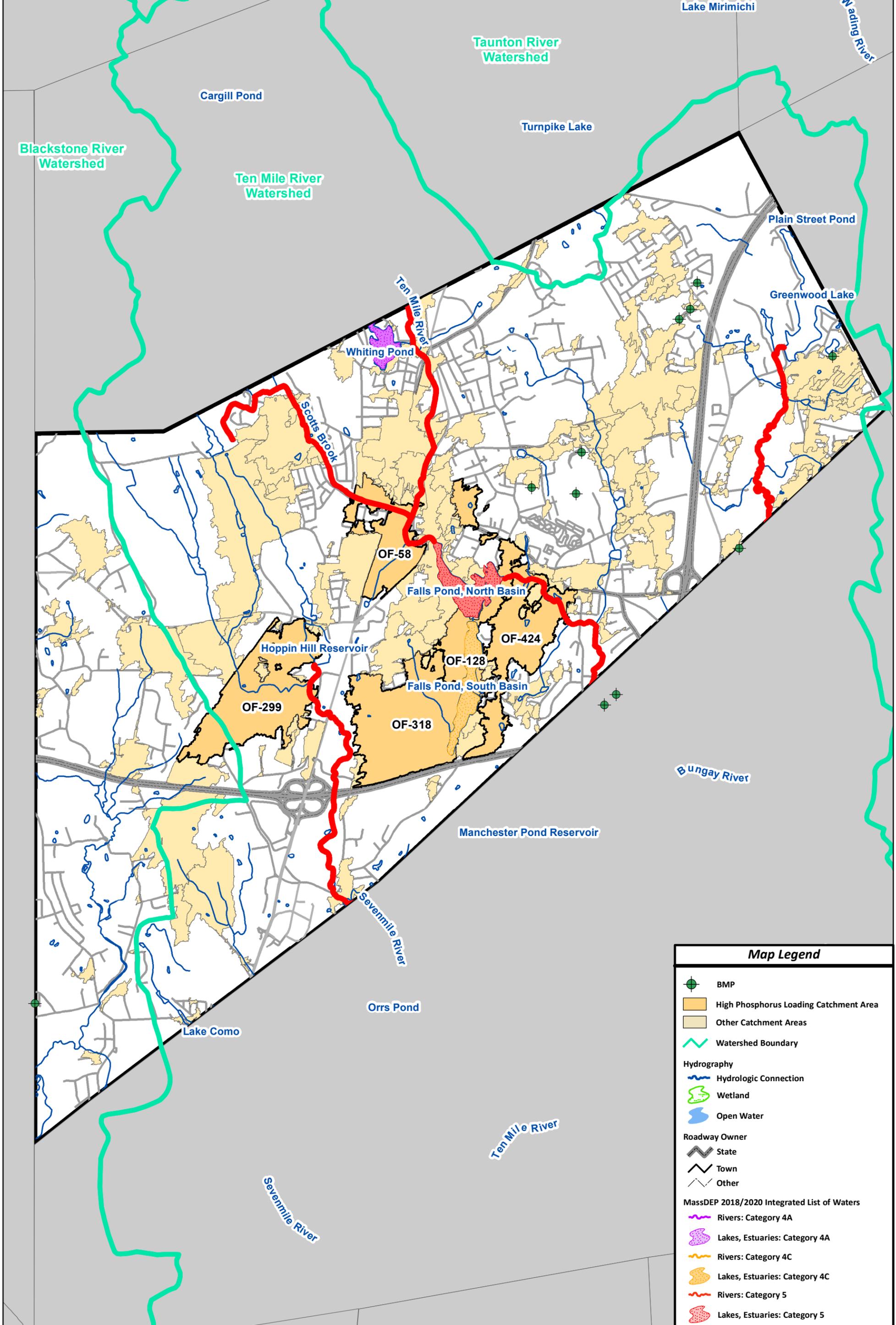
## APPENDIX C

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- Map of Five Catchments with the Highest Estimated Nutrient Loadings

# North Attleboro, Massachusetts

## Stormwater Catchment Areas & BMPs



### Map Legend

- BMP
- High Phosphorus Loading Catchment Area
- Other Catchment Areas
- Watershed Boundary
- Hydrography**
  - Hydrologic Connection
  - Wetland
  - Open Water
- Roadway Owner**
  - State
  - Town
  - Other
- MassDEP 2018/2020 Integrated List of Waters**
  - Rivers: Category 4A
  - Lakes, Estuaries: Category 4A
  - Rivers: Category 4C
  - Lakes, Estuaries: Category 4C
  - Rivers: Category 5
  - Lakes, Estuaries: Category 5

# APPENDIX D

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- Existing BMP Nutrient Removal Calculations

**Appendix D: Existing BMP Nutrient Removal Calculations**

| BMP ID | Address                          | BMP Type         | Phosphorus Removal (lb/yr) | Nitrogen Removal (lb/yr) | TSS Removal (lb/yr) |
|--------|----------------------------------|------------------|----------------------------|--------------------------|---------------------|
| BMP-4  | Winchester Circle                | Stormwater Basin | 0.46                       | 5.53                     | 363.04              |
| BMP-5  | 11 Whitman Lane                  | Stormwater Basin | 0.08                       | 0.90                     | 60.40               |
| BMP-6  | Middle School, 570 Landry Avenue | Stormwater Basin | 0.50                       | 7.29                     | 469.42              |
| BMP-7  | High School, 570 Landry Avenue   | Stormwater Basin | 0.58                       | 9.44                     | 626.90              |
| BMP-8  | Cedar Road                       | Stormwater Basin | 0.01                       | 0.12                     | 14.03               |

# APPENDIX E

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- Potential BMP Retrofit Sites

Appendix E: Permittee-Owned BMP Retrofit Locations

| Nutrient Removal | Address   | Ownership |             | Soil Type <sup>1</sup> |                          | Depth to Water Table <sup>1</sup> |                          | Within a Potential Subsurface Area of Concern <sup>2</sup> |             | Opportunity for Public Use and Education |             | Access for Maintenance |             | Current Stormwater Infrastructure in Area |             | Receiving Water <sup>3</sup> |             | Priority Score            | Comments   |
|------------------|---|-----------|-------------|------------------------|--------------------------|-----------------------------------|--------------------------|--|-------------|--|-------------|------------------------|-------------|---|-------------|------------------------------|-------------|---------------------------|--|
|                  |   | Owner     | Score 0 - 1 | Type                   | Score <sup>4</sup> 0 - 3 | Depth (ft)                        | Score <sup>5</sup> 0 - 3 | Yes/No   | Score 0 - 1 | Yes/No                                   | Score 0 - 1 | Yes/No                 | Score 0 - 1 | Yes/No                                    | Score 0 - 1 | Yes/No                       | Score 0 - 1 | High Score, High Priority |  |
| Phosphorus       | 446 Elm Street<br>Parcel: F_706364_2815474<br>Mason Field                       | Town      | 1           | A                      | 3                        | 0.3                               | 0                        | No   | 0           | Yes                                      | 1           | Yes                    | 1           | Yes                                       | 1           | No                           | 0           | 7                         | Land Surrounding Jones and CaptainsPond could be examined for future BMPs.                             |
| Phosphorus       | South of 57 Mary Kennedy Drive<br>Parcel: F_714256_2816826<br>Woods, river bank | Town      | 1           | A                      | 3                        | 0.3                               | 0                        | Yes  | 1           | No                                       | 0           | Yes                    | 1           | No  | 0           | Yes                          | 1           | 7                         | Land surrounding river is fedarally and town owned, could be examined for future BMPs.                 |
| Phosphorus       | North of 746 Landry Avenue<br>Parcel: F_705675_2819447<br>Woods                 | Town      | 1           | B                      | 2                        | 3.3                               | 1                        | No   | 0           | Yes                                      | 1           | Yes                    | 1           | Yes                                       | 1           | No                           | 0           | 7                         | Land north of high school and middle school is all town owned and could be examined for future BMPs.   |
| Phosphorus       | North of 85 Hickory Road<br>Parcel: F_696000_2813898<br>Woods, open land        | Town      | 1           | C/D                    | 0.5                      | 2.6                               | 1                        | No   | 0           | Yes                                      | 1           | Yes                    | 1           | Yes                                       | 1           | Yes                          | 1           | 6.5                       | Town owned space north of parcel could be examined for future BMPs.                                    |
| Phosphorus       | 564 Landry Avenue<br>Parcel: F_707766_2818249<br>Middle School & High School    | Town      | 1           | C/D                    | 1                        | 2.2                               | 1                        | No   | 0           | Yes                                      | 1           | Yes                    | 1           | Yes                                       | 1           | No                           | 0           | 6                         | Land at schools could be examined for additional future BMPs.  |
| Phosphorus       | North of 54 Walcott Road<br>Parcel: F_705582_2823746<br>Woods, playing fields   | Town      | 1           | A/B                    | 2.5                      | 1.9                               | 0                        | No   | 0           | Yes                                      | 1           | Yes                    | 1           | No  | 0           | No                           | 0           | 5.5                       | Undeveloped land surrounded by mostly residential parcels. Could examine land to West for future BMPs. |

NOTES

1. Data source: USDA Nautral Resources Conservation Service, Web Soil Survey
2. Examples: Contaminated Sites, Zone 2 Watershed Protection Areas. Data source: MassGIS, MassDEP Tier Classified Oil and/or Hazardous Material Sites
3. Control of Discharges to Water Quality Limited Waters, First or Second Order Streams, Public Swimming Beaches, Drinking Water Supply Sources, Shellfish Growing Areas
4. Score breakdown: Hydrologic Soil Group A =3, B = 2, C = 1, D = 0.
5. Score breakdown: Depths of 0 to 2 ft = 0, 2 to 4 ft = 1, 4 to 6 ft = 2, at least 6 ft = 3.

# Town of North Attleborough, Massachusetts

## BMP Retrofit Locations

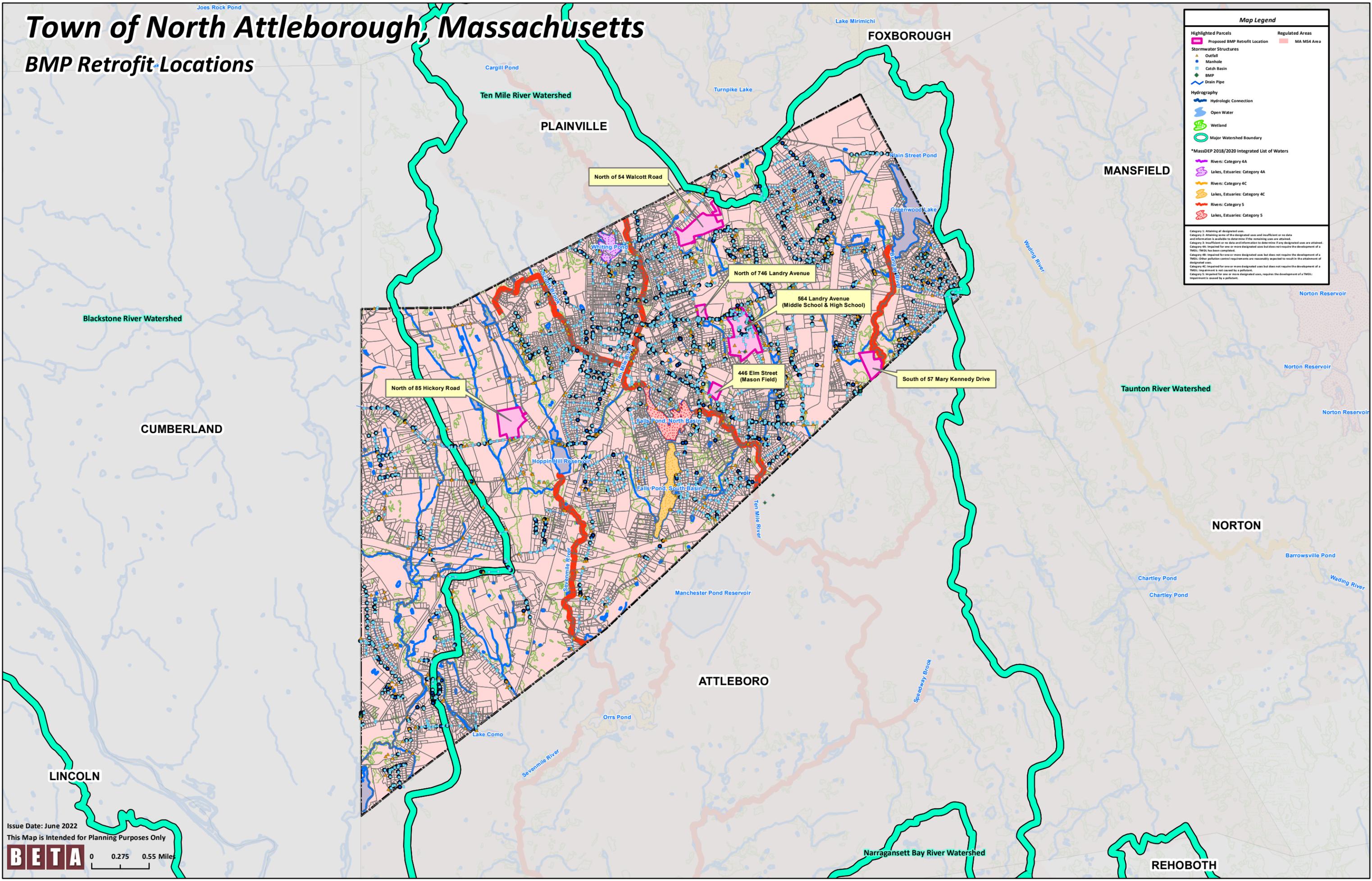
**Map Legend**

|                                |                        |
|--------------------------------|------------------------|
| <b>Highlighted Parcels</b>     | <b>Regulated Areas</b> |
| Proposed BMP Retrofit Location | MA M54 Area            |
| <b>Stormwater Structures</b>   |                        |
| Outfall                        |                        |
| Manhole                        |                        |
| Catch Basin                    |                        |
| BMP                            |                        |
| Drain Pipe                     |                        |
| <b>Hydrography</b>             |                        |
| Hydrologic Connection          |                        |
| Open Water                     |                        |
| Wetland                        |                        |
| Major Watershed Boundary       |                        |

**\*MassDEP 2018/2020 Integrated List of Waters**

|                               |  |
|-------------------------------|--|
| Rivers: Category 4A           |  |
| Lakes, Estuaries: Category 4A |  |
| Rivers: Category 4C           |  |
| Lakes, Estuaries: Category 4C |  |
| Rivers: Category 5            |  |
| Lakes, Estuaries: Category 5  |  |

Category 1: Attaining all designated uses.  
Category 2: Attaining some of the designated uses and insufficient or no data and information is available to determine if the remaining uses are attained.  
Category 3: Insufficient or no data and information to determine if any designated uses are attained.  
Category 4A: Impaired for one or more designated uses but does not require the development of a TMDL. TMDL has been completed.  
Category 4B: Impaired for one or more designated uses but does not require the development of a TMDL. Other pollution control requirements are reasonably expected to result in the attainment of designated uses.  
Category 4C: Impaired for one or more designated uses but does not require the development of a TMDL. Impairment is not caused by a pollutant.  
Category 5: Impaired for one or more designated uses, requires the development of a TMDL. Impairment is caused by a pollutant.



North Attleborough, MA  
**ASSESSMENT OF CURRENT REGULATIONS**  
NPDES Phase II Small MS4 General Permit  
June 2022

**LID & GREEN INFRASTRUCTURE**

---



**BETA**

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# ASSESSMENT OF CURRENT REGULATIONS

North Attleborough, MA  
NPDES Phase II Small MS4 General Permit

## LID & GREEN INFRASTRUCTURE

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Prepared by: BETA GROUP, INC.  
Prepared for: Town of North Attleborough, Massachusetts

June 2022

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- Appendix A    Open Space Design Review Matrix
- Appendix B    Municipal Regulations Review Matrix

## 1.0 INTRODUCTION

This assessment has been developed by the Town of North Attleborough (the Town) to assess local requirements in relation to the creation of impervious cover and the feasibility allowing the use of low-impact-design (LID) and green infrastructure. This is done in accordance with the 2016 MS4 General Permit (the Permit) Stormwater Management in New Development and Redevelopment Section 2.3.6.b & c requirements and shall be part of the Town's Stormwater Management Plan (SWMP).

### OBJECTIVE

The objective is to identify opportunities to revise municipal regulations to better support LID and green infrastructure options. As stated in the Mass Audubon tool, the key areas of analysis include:

1. Overall site design: Open Space Conservation Development (OSCD) vs. conventional subdivisions
2. Project design and layout standards in relation to LID: road layout and width, curbing, drainage, sidewalks, parking, landscaping
3. Maintenance and operations, mechanisms for enforcement: Who is responsible for maintaining drainage/LID (municipal or homeowner); easements, homeowner association option; municipal inspection and administration systems.

The following report sections summarize the current regulations and includes recommendations to update those regulations.

## 2.0 CURRENT REGULATIONS

The General Code for the Town is available to view here: [bylaws\\_revised\\_charter\\_2021.pdf](https://nattleboro.com/bylaws_revised_charter_2021.pdf) ([nattleboro.com](https://nattleboro.com)).

Regulations review as part of this task include:

- Zoning By-laws (2019)
- Rules and Regulations Governing Subdivision of Land (2012)
- Article XXII Stormwater Management and Land Disturbance By-law (2019)
- Stormwater Management and Land Disturbance Regulations (2019)

## 3.0 REVIEW STANDARDS AND METHODOLOGY

The analysis compares the existing regulations to the state's recommended best practices within the Smart Growth/Smart Energy Toolkit. This was completed using the tool developed by Mass Audubon: Bylaw Review for LID & Climate Smart, Nature-Based Solutions. The Excel tool provides a structured evaluation of the existing town regulations in a "Conventional", "Better" and "Best Practice" format in relation to over 30 best practice considerations. The tool can be downloaded from the following webpage:

<https://www.massaudubon.org/our-conservation-work/policy-advocacy/shaping-climate-resilient-communities/publications-community-resources/bylaw-review>

The tool includes a description of the assessment standards as follows.

### OPEN SPACE RESIDENTIAL DESIGN (OSRD) OVERVIEW

This section reviews how local bylaws for cluster, Open Space Residential Design (OSRD), or Natural Resource Protection Zoning (NRPZ) compared to the state's recommended best practices. Communities may currently have multiple bylaws that cover this in different residential areas, in which case they can each be compared to the model regulations. However, in most cases, we would encourage simplification and the use of a single OSRD bylaw with local priorities clearly defined.

Communities may also have no cluster, OSRD, or NRPZ bylaws on the books. In this case, the state's best practice model can be used to create one. If the community closely follows the model, they'll meet the characteristics described within the analysis. However, the analysis still provides a quick checklist.

Some of the most important aspects of OSRD in any community include: the four-step review process that carefully considers the natural landscape before drawing lot lines; the minimum amount of open space protected; the incorporation of LID practices; and allowing this type of development by right instead of special permit.

### ZONING, SUBDIVISION, SITE PLAN REVIEW, AND STORMWATER OVERVIEW

This section reviews not only the individual bylaws and regulations, but also how they work together and how consistent they are. Communities often update portions of bylaws or regulations in a piecemeal way over decades, leading to inconsistencies among various provisions. This color-coded analysis provides a quick overview of not only which rules are out of date and not meeting best practices for LID and preservation of Green Infrastructure, but also how certain topics (such as siting of LID) may be inconsistent between different parts of land use rules.

Not all factors (such as road width, siting of LID, limits on clearing and grading, or allowing common drives) may be addressed in each of the sections considered (Zoning bylaws, Subdivision Rules and Regulations, Site Plan Review (SPR), and Stormwater/LID bylaw). Where that factor is not usually included within a regulation or bylaw, you'll notice that "(Not Applicable)" will appear in that box. For example, setbacks and frontage requirements are addressed under Zoning, but often not under other bylaws or regulations.

This review may also help towns identify best practices that comply with MS4 permit requirements, issued by EPA and Mass DEP, though it is not comprehensive in relation to the permit requirements and additional actions may be needed. Consultation with EPA and/or DEP is strongly recommended. Visit [www.mass.gov/guides/municipal-compliance-fact-sheet-stormwater](http://www.mass.gov/guides/municipal-compliance-fact-sheet-stormwater) for more info.

The analysis is broken into five goals, each with factors that address the goal:

#### Goal 1: Protect Natural Resources and Open Space

The focus of this section is to limit clearing and grading and encourage soil management, the use of native species, and revegetation of disturbed areas. Often, communities have language such as "due regard shall be shown for natural features" without any specific limitations or guidelines that can be used by local boards to ensure developers are following the true intent of the community. The retention of natural vegetation and soils is the single most efficient means of reducing development impacts on water resources, avoiding costs associated with piping and other "grey" stormwater management features as well as the need for irrigation. There are also many other benefits – including habitat for birds and

pollinators, trees for shade and clean air, and protection of natural scenery that contributes to property values and a high quality of life.

#### Goal 2: Promote Efficient, Compact Development Patterns and Infill

Often, making dimensional requirements such as setbacks, lot size, and frontage more flexible as well as allowing common drives will help allow the community to encourage efficient, compact designs. These help to decrease the amount of impervious surfaces and increase infiltration, while still supporting new development.

#### Goal 3: Smart Designs that Reduce Overall Imperviousness

This section reviews site design such as street location, road width, cul-de-sac design, curbing, roadside swales, and sidewalk design and location. There are many opportunities for communities to minimize impervious surfaces and allow for infiltration through curb cuts, swales, and cul-de-sacs with bioretention, among other things.

#### Goal 4: Adopt Green Infrastructure Stormwater Management Provisions

This section looks to explicitly discuss LID as a preferred method, such as requiring roof runoff to be directed into vegetated areas, and a preference for infiltration wherever soils allow or can be amended. Bylaws and/or regulations should clearly specify what LID is and which BMPs are preferred or required. Communities should also require an operations and maintenance plan to encourage effective use of LID methods. Adopting a specific LID bylaw can help clearly define and incorporate LID as a preferential stormwater management technique. Defining LID within this bylaw also decreases the need to explain LID throughout each of the Zoning bylaws, SPR, and subdivision rules and regulations and reduce the potential for any conflict between regulations and bylaws. This section also includes additional stormwater management considerations relevant to the MS4 permit.

#### Goal 5: Encourage Efficient Parking

Parking accounts for a large amount of impervious surface within new and redevelopment projects and offers an enormous opportunity for using LID. By reducing the amount of required parking - or even including parking maximums instead of minimums, communities can drastically reduce their impervious surfaces and runoff. Many communities already require landscaping in parking areas, which also offers an opportunity to allow curb cuts and infiltration in these areas - improving water quality and reducing the need for irrigation.

## 4.0 OPEN SPACE DEVELOPMENT ASSESSMENT

The Town regulates their open space with residential design through Residential Cluster Development in §VI.I and Environmentally Friendly Open Space Design in §VI.R of the Zoning Bylaws.

The Residential Cluster Development Bylaw lists the following purposes:

The purposes of cluster residential development shall be to protect the public interest in clean air and water, conserve and protect natural resources, encourage the preservation of open space, and encourage design flexibility, by authorizing density and use restrictions which vary from those otherwise permitted in the district, in accordance with this section.

The Residential Cluster Development Bylaw lists the following purpose:

- 1.1. To govern the use of land within the R-20 and R-40 Residential Districts into not more than five (5) demise parcels,
- 1.2. To allow low density residential development as an alternative to conventional subdivision,
- 1.3. To promote land conservation and preserve the rural character of the Town,
- 1.4. To eliminate Town costs and maintenance responsibility for roadways, lighting and future repairs.

These areas of open space development are an opportunity for towns to protect open space and incorporate LID practices in consideration of the natural landscape.

The Residential Cluster Development Analysis in Appendix A compares the Residential Cluster Development to MA Best Practice Factors based on various qualities that make the factor “Conventional”, “Better” or “Best Practice”. The rules included in the Town bylaw are color coded to match “Conventional”, “Better” and “Best Practice” (orange, yellow, green, respectively) which correspond to the categories explained in Mass Audubon’s tool. In addition to those colors, some items are highlighted in red. This indicates the existing bylaw falls below the conventional regulations.

As shown in Appendix A, 5 of the 18 factors are currently at best practices for open space residential design.

The Town exercises better practices in 1 factor:

1. Review process requires a cluster layout where best practice is flexible “OSRD” 4 step

The bylaw exercises conventional practices in 10 factors:

1. Special permit required, where better practice is by right and best practice is mandatory
2. Minimum parcel size is greater than 10 acres, where better practice is between 5-10 acres, and better practice is no size requirement
3. Dimensional standards include minimums less than conventional, where better practices include formulas with specified minimums, and best practice includes no or very small minimums.
4. Contiguity of open space to previously protected open space is not addressed, where better practice requires contiguity within the development, and best practice requires contiguity within development and adjacent open space parcels
5. Quality of open space conserved requires little to no documentation, where better practice requires some but not comprehensive mapping and documentation, and best practice requires specific plans, maps and comprehensive documents be included in the submission
6. Relationship to open space or master plan goals is not discussed. where better practices include optional considerations. and best practices require these considerations
7. Inclusion of low impact design (LID) is not addressed. where better practice encourages LID, and best practices require LID be used
8. No bonus density is offered for enhanced public benefit, where better offers bonus by special permit, and best provides automatic or formulaic bonus.
9. Flexibility of open space to facilitate wastewater treatment facilities is not provided, where better practice allows aggregated calculation by Board of Health, and best practice allows for the

reduction of open space by up to 10% to accommodate sewer disposal with deed restriction and aggregate calculation

10. Monitoring of open space is not specified, where better practice provides loose or nonspecific monitoring provisions, and best practice requires specific monitoring requirements at stated intervals

The bylaw exercised below conventional practices in 2 factors:

1. Minimum open space required is 30%, where conventional practice is 50-65%, better practice is 65-75% and best practice is greater than 75%
2. Ownership in relationship with the resources present is not addressed, when best practice includes providing open space in association with site resources

## 5.0 BYLAWS AND REGULATIONS ASSESSMENT

Appendix B outlines the regulations in a similar format (“Conventional”, “Better”, and “Best Practice”) against sets of factors that address 5 goals. Findings for each regulation are color coded to match “Conventional”, “Better” and “Best Practice” factors. The 5 goals are:

1. Protect Natural Resources and Open Space
2. Promote Efficient, Compact Development Patterns and Infill
3. Smart Designs that Reduce Overall Imperviousness
4. Adopt Green Infrastructure Stormwater Management Provisions
5. Encourage Efficient Parking

This analysis indicates where specific requirements rate relative to best practices for LID and green infrastructure.

Each bylaw may cover different parts of each goal, so the analysis compared any differences between regulations as well.

## 6.0 RECOMMENDATIONS

As shown in Appendices A and B, there is room for improvement to better promote LID and green infrastructure within the Zoning By-laws, Rules and Regulations Governing Subdivision of Land, and Stormwater Management Regulations. North Attleborough can also create a Site Plan Review Process that incorporates the goals identified in the Mass Audubon Tool.

More acknowledgement and emphasis of the importance of natural green infrastructure will help limit stormwater impacts. This can be accomplished by implementing some or all of the recommendations included below. Reference should be made to Appendices A and B for a complete analysis of areas that need improvement.

### GENERAL COORDINATION OF BYLAWS AND REGULATIONS

To avoid current or potential conflicts and facilitate a consistent review of all projects to meet the best practices as it relates to stormwater management and low impact development (LID) techniques, it is recommended that the Stormwater Management Bylaw and/or Regulations be updated as outlined below and the Zoning Bylaw and Subdivision and other bylaws remove stormwater management design

standards and instead provide a reference requiring compliance with the Towns stormwater management bylaw and/or regulations.

#### GOAL 1: PROTECT NATURAL RESOURCES AND OPEN SPACE

The following are factors the Town may want to consider to provide increase protection of natural resources and open space:

1. 1. Consider updating Residential Cluster Development in §VI.I and Environmentally Friendly Open Space Design in §VI.R of the zoning bylaw to include more “better” and “best” practices outlined in Section 4.0 Open Space Development
1. 2. Require soil management plan as part of large developments
1. 3. Limit clearing, lawn size and require retention of vegetation
1. 4. Require at least 75% native plantings

#### GOAL 2: PROMOTE EFFICIENT, COMPACT DEVELOPMENT PATTERNS AND INFILL

The following are factors the Town may want to consider to promote efficient, compact development patterns and infiltration:

2. 1. Allow lot size, frontage and setbacks be set through EFOSD process by right
2. 2. Allow multifamily housing by right in most residential areas, cluster developments encouraged with density bonuses for LID features and no maximum lot coverage

#### GOAL 3: SMART DESIGNS THAT REDUCE OVERALL IMPERVIOUSNESS

The following are factors the Town may want to consider to promote smart designs that reduce overall imperviousness:

3. 1. Set impervious cover limits based on zoning district and use
3. 2. Allow street location and right-of-way and roadway widths set through OSCD process by right
3. 3. Allow one-way loops with lower right of way width
3. 4. Allow hammerhead turn around, minimize turn around radius
3. 5. Allow common driveways in residential districts
3. 6. Require bioretention at cul-de-sac islands
3. 7. Allow country drainage and or opening in curbing to all roadside swales/bioretention
3. 8. Allow flexibility on pedestrian sidewalk locations
3. 9. Allow and encourage permeable sidewalks or slope sidewalks to drain to lots

#### GOAL 4: ADOPT GREEN INFRASTRUCTURE STORMWATER MANAGEMENT PROVISIONS

The following are factors the Town may want to consider to including provision to promote green infrastructure stormwater management:

- 4.1. Require minimum recharge of 1 inch of all roof runoff except in soil with a hydrologic soil group rating of D.
- 4.2. Update site plan checklist to review project site constraints and require inclusion of LID techniques and/or infiltration

- 4.3. Allow pervious pavements in select conditions
- 4.4. Require interdepartmental plan review
- 4.5. Provide enforcement with fines if necessary

#### GOAL 5: ENCOURAGE EFFICIENT PARKING

The following are factors the Town may want to consider to encourage efficient parking:

- 5.1. Provide provisions to reduce parking spaces numbers based on need and/or allow portions of required parking areas to remain lawn area and not be constructed until needed.
- 5.2. Restrict parking space size to (9 ft x18 ft) and allow a percentage of smaller size (compact) spaces
- 5.3. Allow shared parking in where demand time for uses differ
- 5.4. Update site plan checklist to review project site constraints and require inclusion of LID techniques or infiltration

The Town can further help encourage better practices by creating a Site Plan Review Process that addresses the items in Appendices A and B.

## 7.0 IMPLEMENTATION

It is encouraged that when changes are being made to any of the analyzed bylaws and/or regulations, the Town will consult this report to incorporate open space, green infrastructure, and reduction in impervious cover.

# APPENDIX A

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- Open Space Design Review Matrix

| Best Practices Factors   | Conventional   | Better  | Best Practice   | Cluster Residential Development §VI.I. Environmentally Friendly Open Space Design (EFOSD) §VI.R.                               |
|--|--|---|---|--|
| Permit Type  | Special Permit   | By Right  | Mandatory   | §VI.I.1 & §VI.R. Special Permit  |
| Land area to which the zoning is applicable  | Only a small amount of developable land  | Land of particular environmental sensitivity  | All developable land zoned residential  | §VI.I.7. Residential districts (R-40, R-20, & R-15)  |
| Minimum Open Space   | 50-65%   | 65-75%  | ≥ 75%   | §VI.I.7. 30% no min. for EFOSD   |
| Yield Calculation  | Full plan with full percolation tests  | Sketch plan with selected percolation test(s)   | By formula  | §VI.I.7. By Formula  |
| Minimum parcel size  | ≥ 10 acres   | 5-10 acres  | None  | §VI.I.4. 15 acres §VI.R.2.2. 6 acres   |
| Review Process   | No detailed analysis of site characteristics in relation to design   | Cluster layout  | Flexible "OSRD" 4 Step  | Cluster Layout §VI.R.10. Master Plan required  |
| Ownership of Open Space  | Appropriate to the resources present. For example, agricultural land by the farmer, watershed land by a water dept. or district, habitat land by the conservation commission, or recreational open space by a parks and recreation commission or homeowners association. |   |   | Not Addressed for cluster  |
| Dimensional Standards; area, frontage, etc.  | Specified, < than for standard subdivision   | Formulaic reduction with specified minimums   | None set or small minimums  | §VI.I.7. & §VI.R.3.1 Specified, standards are less than a standard subdivision   |
| Quality of open space conserved: Specificity of local priorities for natural, cultural, and historic resource conservation | No indication of local conservation priorities, or language that refers only to regulated resource areas.  | Lack of specificity regarding local conservation priorities; no map of priority locations   | Local priorities clearly and unambiguously stated and mapped for use in site design.  | §VI.I.6. Active and natural uses §VI.R.3.4.1 Passive and/or recreation uses  |
| Contiguity of open space; relationship to previously protected open space  | No contiguity requirement  | Contiguity required within subdivision  | Contiguity required; adjacent land considered   | No contiguity requirement  |
| Quality of open space conserved: Allowed uses of open space  | Allowed use of open space not addressed  | Vague language regarding use of conserved open space  | Clear list of allowed uses consistent with conservation and recreation goals  | §VI.I.6. Active and natural uses §VI.R.3.4.1 Passive and/or recreation uses  |
| Quality of open space conserved: Submission requirements - GIS maps, data, etc. to inform the review process               | Vague or no language regarding submission of information on site resources and no specified process for the use of the data submitted  | General non-comprehensive data and mapping requirements; vague process for the application of the data to site design and open space conservation | Specific plans, maps, & comprehensive data regarding natural, cultural, and historic resources required and used as the basis for open space conservation | No language regarding submission of information on site resources, and no specified process for the use of the data submitted. |
| Relationship to Plans  | Relationship to plans not discussed  | Optional consideration of open space goals of OSRP, master, and/or regional policy plan   | Required consideration of open space goals of OSRP, master, and/or regional policy plan   | Not discussed for cluster §VI.R.10. Master Plan required   |
| Low Impact Design  | Not addressed  | Encouraged  | Required  | Not addressed  |
| Density bonus for enhanced public benefit(s)   | No bonus offered   | Bonus by special permit   | Automatic or formulaic bonus  | No bonus offered   |
| Review Entity  | ZBA, council or selectmen as special permit authority  | Planning Board  | Planning Board  | §500-22.E & §VI.R. Planning Board  |
| Flexibility re: open space protection to facilitate wastewater treatment facilities  | No flexibility provided  | Aggregate calculations allowed by board of health   | If necessary, required open space may be reduced by < 10% to accommodate; disposal area deed restricted; aggregate calculations allowed by BoH, etc.      | No flexibility provided  |
| Monitoring of open space   | No specified monitoring requirements and no requirements that would assist the party responsible for monitoring  | Loose provisions to facilitate, municipal monitoring, or no specificity regarding monitoring interval   | Specific provisions to aid endowed monitoring by a conservation org at stated intervals   | Not discussed  |

# APPENDIX B

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- Municipal Regulations Review Matrix

| Factors   | Conventional  | Better   | Best   | Zoning Bylaw (2019)  | Rules & Regulations Governing Subdivision of Land (2012) | Stormwater Management & Land Disturbance By-law & Regulations (2021) |
|---|---|--|--|--|--|--|
| <b>GOAL 1: PROTECT NATURAL RESOURCES AND OPEN SPACE</b>   |   |  |  |  |  |  |
| Soils managed for revegetation  | Not addressed   | Limitations on removal from site, and/or requirements for stabilization and revegetation | Prohibit removal of topsoil from site. Require prep of soils compacted during construction   | Not addressed  | Not addressed  | not addressed  |
| Limit clearing, lawn size, require retention or planting of native vegetation/naturalized areas | Not addressed or general qualitative statement not tied to other design standards       | Encourage minimization of clearing/ grubbing   | Require minimization of clearing/grubbing with specific standards  | Not addressed  | \$5.15 Min. requirements to retain existing trees        | \$9(E)(4) minimize soil erosion                                      |
| Require native vegetation and trees   | Require or recommend invasives  | Not addressed, or mixture of required plantings of native and nonnative                  | Require at least 75% native plantings  | Not addressed  | \$5.15.Trees required - species not addressed            | not addressed.   |
| <b>GOAL 2: PROMOTE EFFICIENT, COMPACT DEVELOPMENT PATTERNS AND INFILL</b>                       |   |  |  |  |  |  |
| Lot size  | Required minimum lot sizes  | OSRD/NRPZ preferred. Special permit with incentives to utilize                           | Flexible with OSRD/NRPZ by right, preferred option   | §VI.I.7. Cluster development and §VI.R. EFSOD by special permit  | (Not applicable)   | (Not applicable)   |
| Housing density   | Multi-family housing not allowed, or only in/adjacent to commercial and industrial uses | Multi-family and cluster developments allowed by special permit                          | Multi-family housing allowed by right in most residential areas; cluster developments encouraged with density bonuses for LID features and no maximum lot coverage | §V. Multifamily limited to R-10, R-10S, & IC-30 districts; §VI.I.7. Residential Cluster Development by special permit in residential districts | (Not applicable)   | (Not applicable)   |
| Setbacks  | Required minimum front, side, and rear setbacks   | Minimize, allow flexibility  | Clear standards that minimize and in some instances eliminate setbacks   | Intensity Schedule A Required minimums §VI.I.7. Reduced for Residential Cluster and EFOSD  | (Not applicable)   | (Not applicable)   |
| Frontage  | Required minimum frontage for each lot/unit   | Minimize especially on curved streets and cul-de-sacs                                    | No minimums in some instances, tied into other standards like OSRD design and shared driveways.  | Intensity Schedule A Required minimums §VI.I.7. Reduced for Residential Cluster and EFOSD  | (Not applicable)   | (Not applicable)   |
| Common driveways  | Often not allowed, or strict limitations  | Allow for 2-3 residential units  | Allow for up to 4 residential units, preferably constructed with permeable pavers or pavement  | §VI.N. Recommended in Planned Business Development §VI.R. Allowed in EFOSD   | Not addressed  | (Not applicable)   |

| Factors   | Conventional  | Better   | Best  | Zoning Bylaw (2019) | Rules & Regulations Governing Subdivision of Land (2012)  | Stormwater Management & Land Disturbance By-law & Regulations (2021)  |
|---|---|--|---|---------------------|---|---|
| <b>GOAL 3: SMART DESIGNS THAT REDUCE OVERALL IMPERVIOUSNESS</b> |   |  |   |                     |   |   |
| Impervious cover limits and infiltration rates                  | Not usually addressed in zoning and subdivision regs for rural/suburban residential   | Require no net increase in site run-off from pre- to post-development                            | Impervious cover limits tailored to the community and district type (i.e. <10% total impervious cover in rural districts, but higher in urban and redevelopment districts); post-development infiltration should be equal to or greater than pre-development. Following best practice may also help communities comply with MS4 permit requirements | Not addressed       | Not addressed   | §11(A)(8) Must comply with Stormwater Management Bylaw (which requires no increase in peak rate and volume of runoff) |
| Street location   | Numeric and geometric standards based primarily on vehicular travel and safety, with basic pedestrian requirements e.g. sidewalks | Flexibility in applying standards, to reduce area of impact, grading, avoid key natural features | OSRD design preferred by-right. Require locating streets to minimize grading and road length, avoid important natural features  | (Not applicable)    | Numeric and geometric standards based primarily on vehicular travel and safety, with basic pedestrian requirements e.g. sidewalks | (Not applicable)  |
| Road width  | Major and minor categories, 24-30'  | Wide, medium, narrow categories. 22-24' max, plus 2' shoulders                                   | Wide, medium, narrow, and alley categories. 20-24' widest for 2 travel lanes, 18-20' low traffic residential neighborhood, plus 2' shoulders. Allow alleys and other low traffic or secondary emergency access and all shoulders to use alternative, permeable materials.   | (Not applicable)    | Typical Sections Figures 1-4 26-58' pavement width  | (Not applicable)  |
| Road ROW width  | 50-75', fully cleared and graded  | 40-50', some flexibility in extent of clearing   | 20-50' depending on road type   | (Not applicable)    | Typical Sections Figures 1-4 40-85' right-of-way width  | (Not applicable)  |
| Access Options  | No common drives allowed, dead end allowed with limit on length and # of units  | Allow dead end with limit on length and # of units. Allow common drives up to 2-3 units          | Allow one way loop streets. Allow common drives up to 4 units, and alleys and rear-loading garages where suitable.  | (Not applicable)    | Common driveways not addressed. §5.11.f. Dead end limited in length to 900 feet.  | (Not applicable)  |
| Dead Ends/Cul-de-sacs   | 120 ft or more minimum turnaround   | Minimize end radii – 35 ft   | Allow hammerhead turnaround   | (Not applicable)    | §5.1.1.f. Cul-de-sac are the turn around standard, no specifications provided   | (Not applicable)  |
| Cul-de-sacs   | Full pavement standard  | Encourage center landscaping with bioretention   | Require center landscaping with bioretention  | (Not applicable)    | Not addressed assumed full pavement   | (Not applicable)  |
| Curbing   | Curbing required full length both sides of road   | Allow curb breaks or curb flush with pavement to enable water to flow to vegetated LID features  | Open drainage with roadside swales and no curbs preferred   | (Not applicable)    | Typical Sections Figures 1-4 Curbing required full length both sides of road  | not addressed   |
| Roadside Swales   | Allowed as an option  | Preferred over closed drainage   | Preferred, with criteria for proper design. Adoption of technical specifications and design templates for green infrastructure recommended  | (Not applicable)    | Not addressed   | Not addressed   |
| Utilities   | Off sets required contributing to wide road ROWs  | Not specified, flexible  | Allow under road, sidewalks or immediately adjacent to roads to enable placement of roadside swales.  | (Not applicable)    | Typical Sections Figures 1-4 Utilities under road and sidewalks   | (Not applicable)  |

| Factors  | Conventional   | Better  | Best  | Zoning Bylaw (2019) | Rules & Regulations Governing Subdivision of Land (2012)      | Stormwater Management & Land Disturbance By-law & Regulations (2021)  |
|--|--|---|---|---------------------|---|---|
| Sidewalks  | Concrete or bituminous   | Some flexibility in material and design   | Prefer permeable pavement or permeable pavers   | (Not applicable)    | §5.4.1. Cement and bituminous concrete                        | (Not applicable)  |
| Sidewalk location  | Required both sides of road  | Allow on only 1 side of road especially in low density neighborhoods  | Prefer siting with land contours and for best pedestrian utility (e.g. connect with common areas and shared open spaces) – not necessarily immediately parallel to road.  | (Not applicable)    | §5.4.1. Required both sides of road may be waived to one side | (Not applicable)  |
| Sidewalk drainage  | Drains to road closed drainage system  | Not addressed   | Disconnect drainage from road system – e.g. adjacent green strips or within vegetated areas that can absorb sheet flow  | (Not applicable)    | Not addressed   | Not addressed   |
| <b>GOAL 4: ADOPT GREEN INFRASTRUCTURE STORMWATER MANAGEMENT PROVISIONS</b> |  |   |   |                     |   |   |
| Rooftop runoff   | Prohibit directing clean roof runoff into closed municipal drainage systems. | Allow clean roof runoff to be directed to landscaped or naturally vegetated areas capable of absorbing without erosion, or infiltration         | Require directing clean roof runoff to landscaped or naturally vegetated areas capable of absorbing, or infiltration  | (Not applicable)    | Roof runoff not addressed                                     | not specifically addressed<br>§11(A)(7) Must comply with Stormwater Management Bylaw (which requires no increase in peak rate and volume of runoff) |
| Overall stormwater design; piping and surficial retention vs. LID          | Conventional stormwater system design standards                              | Encourage LID features and BMPs; design standards often not specified   | LID design standard encouraging infiltration, allowing surficial ponding of retained runoff for up to 72 hours; systems designed for larger volume storms, accounting for future precipitation predictions; credit for green roofs towards stormwater requirements. Following best practice may also help communities comply with MS4 permit requirements | (Not applicable)    | Conventional stormwater system design standards               | §11(A)(6) LID must be implemented where adequate soil, groundwater, topographic conditions allow.   |
| Site Plan/Design Requirements  | LID not addressed  | Encourage LID features in site design - such as reduced imperviousness, maintaining natural hydrology, preserving open space, & rainwater reuse | Include bioretention and other vegetated LID features in site landscaping/open space requirements. Following best practice may also help communities comply with MS4 permit requirements. See section 2.3.5 of the MS4 permit for more information  | (Not applicable)    | (Not applicable)  | §11(A)(6) LID must be implemented where adequate soil, groundwater, topographic conditions allow.   |
| Allow easy siting of LID features (bioretention, swales, etc.)             | Often not addressed, may require waivers from subdivision standards          | Encouraged along road ROW   | Allowed on lots, common open space, or road ROW, easement recorded. For commercial development, allow an increase in floor area ratio or other developmental incentives for green roofs   | Not addressed       | Not addressed   | (Not applicable)  |
| Permeable paving   | Often not addressed, may require waivers from subdivision standards          | Allowed on private residential lots for parking, patios, etc.   | Allowed for residential drives, parking stalls, spillover parking spaces, emergency access ways (with proper engineering support for emergency vehicles) Two track design allowed for driveways and secondary emergency access ways (where required)  | (Not applicable)    | Not addressed   | not specifically addressed.   |

| Factors   | Conventional  | Better  | Best   | Zoning Bylaw (2019)                        | Rules & Regulations Governing Subdivision of Land (2012) | Stormwater Management & Land Disturbance By-law & Regulations (2021)   |
|---|---|---|--|--|--|--|
| Stormwater management O&M plan                                      | Typically only addressed if municipality has a stormwater or LID bylaw, or for areas subject to wetlands permitting | Required  | Required, contents specified in alignment with current MassDEP Stormwater Handbook. Following best practice may also help communities comply with MS4 permit requirements  | (Not applicable)                           | Not addressed  | §10 Required and contents specified  |
| Construction Erosion and Sedimentation Plan, and stormwater control | Basic general requirements  | Required, contents specified - the site design process should include soil erosion and sedimentation control measures | Goes beyond minimum NPDES requirements. Requires minimization of site disturbance, reduction of construction waste, control measures not removed until proof of soil stabilization or reestablishment of vegetation. Written procedures for site inspection and enforcement included. Following best practice may also help communities comply with MS4 permit requirements. See section 2.3.5 of the MS4 permit for more information  | (Not applicable)                           | Not addressed  | §9 Required and contents specified   |
| Stormwater discharge detection & elimination                        | Not addressed   | Discharges and connections noted and/or limits set on quantity and quality  | Illicit discharges and connections are prohibited and enforced. Following best practice may also help communities comply with MS4 permit requirements. Find more information in section 2.3.4.a of the MS4 permit  | (Not applicable)                           | (Not applicable)   | Article II Prohibited and enforced. (Stormwater Management Bylaw)  |
| Post- construction stormwater management and drainage patterns      | Not addressed   | Allow LID   | Resemble pre-existing conditions of volume, velocity, quality and location, as nearly as possible, requiring LID to the max extent feasible. Retain vol of runoff >1in. per sq.ft. of impervious surface and/or remove 90% TSS post-construction & 50% TP generated on the site for new development, or >0.8in. per sq.ft and/or remove 80% TSS and 50% of TP load for redevelopment. Following best practice may also help communities comply with MS4 permit requirements. | (Not applicable)                           | §5.12.2.b. Meet MassDEP Standards                        | §10 & 11 Resemble pre-existing conditions of volume, velocity, quality and location, as nearly as possible, requiring LID to the max extent feasible. Retain vol of runoff >1in. per sq.ft. of impervious surface and/or remove 90% TSS post-construction & 50% TP generated on the site for new development, or >0.8in. per sq.ft and/or remove 80% TSS and 50% of TP load for redevelopment. |
| As-built surveys  | Not addressed   | Recommended   | Required, with written instructions for process; electronic submittal allowed  | §VI.H. As-built required                   | §5.17 As-built required                                  | §14 Drainage As-built required   |
| Intra-departmental communication and coordination                   | Not addressed   | Informally or loosely occurring   | Required for plan review and/or permit approvals   | Not addressed                              | §4.1.1 Submission to Board of Health                     | not addressed  |
| Enforcement   | No  | Yes   | Yes with fines. Same entity should oversee permit approvals and enforcement  | §VIII. Enforcement and penalties described | §4.9.1.a. Bond or Surety required                        | §I.7 of Stormwater Bylaw   |

| Factors                                    | Conventional  | Better  | Best   | Zoning Bylaw (2019)                                  | Rules & Regulations Governing Subdivision of Land (2012) | Stormwater Management & Land Disturbance By-law & Regulations (2021)                             |
|--|---|---|--|--|--|--|
| <b>GOAL 5: ENCOURAGE EFFICIENT PARKING</b> |   |   |  |  |  |  |
| Parking                                    | Specific minimums set based on projected maximum use times  | Encourage minimum # needed to serve routine use (e.g. 2/residential unit with any additional/visitors parking behind in driveway or on street). | Establish Maximum Parking spaces allowed. Do not require more than 2/residence. Allow tenants separate, optional lease agreements for parking.   | §VI.A. Specific minimums set for different uses.     | (Not applicable)   | (Not applicable)   |
| Commercial Parking                         | Specific minimums set based on projected maximum use times adding all on-site uses together.                              | Some flexibility to reduce minimums based on street or other available nearby parking or transit.   | Allowed shared parking for uses with different peak demand times. Provide model agreements/deed restrictions. Reduce parking requirements near transit. Limit parking stall size (9ftx18ft max), with up to 30% smaller for compact cars | §500-31.C. Specific minimums set for different uses. | (Not applicable)   | (Not applicable)   |
| LID in Parking Areas                       | Often not addressed, may require waivers e.g. for planting islands to drain down rather than built up surrounded by curbs | Allow LID/bioretenion within parking areas.   | Require landscaping within parking areas, as LID/bioretenion, at a minimum of 10% of the interior area landscaped and a minimum of 25 square feet for island planting areas.   | Not addressed  | Not addressed  | not specifically addressed. §8.E..3) LID required for all applicable projects unless infeasible. |

|    | CatchBasinID | StreetName                | GrateStyle | BasinMaterial | HasOilHood | HasArrow | GrateStyle | Weather | PercentFull | ScoopsWithClamShell | BasinMaterial | Problem1 | Problem2 | Problem3 | Problem4 | Problem5 | Problem6 | InspectionResult | DateInspected   |
|----|--------------|---------------------------|------------|---------------|------------|----------|------------|---------|-------------|---------------------|---------------|----------|----------|----------|----------|----------|----------|------------------|-----------------|
| 1  | 2524 116     | May Street                |            | Stone         | No         |          | D          |         |             |                     | Stone         |          |          |          |          |          |          | CR               | 6/22/2022 13:45 |
| 2  | 1905 26      | D. B. Tennant Circle      |            |               | No         | Yes      | D          |         | Greater     | 11                  | Block         | Top      |          |          |          |          |          | Priority         | 6/1/2022 16:37  |
| 3  |              |                           |            |               |            | Yes      | Square     |         | Less        | 0                   | Pre-Cast      |          |          |          |          |          |          | Vac              | 6/1/2022 13:50  |
| 4  | 5273 85      | Thomas Circle             |            | Pre-Cast      | No         | Yes      | Square     |         | Less        | 0                   | Pre-Cast      |          |          |          |          |          |          | Vac              | 6/1/2022 13:37  |
| 5  | 2533 116     | May Street                |            | Block         | No         | Yes      |            |         |             |                     |               |          |          |          |          |          |          | OK               | 5/5/2022 0:07   |
| 6  | 2525 116     | May Street                |            | Block         | No         | Yes      |            |         |             |                     |               |          |          |          |          |          |          | OK               | 5/4/2022 12:09  |
| 7  | 5194 77      | Birchwood Drive           |            | Block         | No         |          |            |         |             |                     |               |          |          |          |          |          |          | Vac              | 4/14/2022 16:14 |
| 8  | 5198 77      | Readons Field Lane        |            | Block         | No         | Yes      | Square     |         | Less        | 6                   | Block         | Grate    |          |          |          |          |          | Problem          | 4/13/2022 18:28 |
| 9  | 5206 77      | Readons Field Lane        |            | Block         | No         | Yes      | Square     |         | Less        | 6                   | Block         |          |          |          |          |          |          | Problem          | 4/13/2022 17:31 |
| 10 | 5121 68      | Arbor Drive               |            | Block         | No         | Yes      | D          |         | Greater     | 12                  | Block         |          |          |          |          |          |          | OK               | 4/13/2022 12:56 |
| 11 | 5212 77      | North Avenue              |            | Block         | No         | Yes      | Square     |         | Less        |                     | Block         |          |          |          |          |          |          | OK               | 4/13/2022 12:12 |
| 12 | 5213 77      | North Avenue              |            | Block         | No         | Yes      | Square     |         | Less        | 4                   | Block         |          |          |          |          |          |          | UnOK             | 4/13/2022 11:54 |
| 13 | 5193 77      | Birchwood Drive           |            | Block         | No         | Yes      | Square     |         | Greater     | 9                   | Block         |          |          |          |          |          |          | OK               | 4/12/2022 18:30 |
| 14 | 5126 68      | North Avenue              |            | Block         | No         | Yes      | Square     |         | Less        | 6                   | Block         |          |          |          |          |          |          | OK               | 4/12/2022 18:09 |
| 15 | 5199 77      | North Avenue              |            | Block         | No         | Yes      | Square     |         | Less        | 6                   | Block         |          |          |          |          |          |          | OK               | 4/12/2022 16:57 |
| 16 | 711 22       | Northville Way            |            | Pre-Cast      | No         | Yes      | Double     |         | Greater     | 11                  | Pre-Cast      |          |          |          |          |          |          | OK               | 4/11/2022 16:11 |
| 17 | 693 13       | Dorans Lane               |            |               |            | Yes      | Square     |         | Greater     | 10                  | Block         |          |          |          |          |          |          | OK               | 4/11/2022 15:53 |
| 18 | 692 13       | Dorans Lane               |            |               |            | Yes      | Square     |         | Greater     | 11                  | Block         |          |          |          |          |          |          | OK               | 4/11/2022 14:51 |
| 19 | 710 22       | Northville Way            |            | Pre-Cast      | No         | Yes      | Double     |         | Less        | 6                   | Pre-Cast      |          |          |          |          |          |          | OK               | 4/11/2022 14:28 |
| 20 |              |                           | D          | Block         |            |          |            |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 18:28  |
| 21 | 5318 67      | Mount Hope Street         | Square     | Pre-Cast      | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 18:16  |
| 22 | 5312 67      | North Pond Terrace        | Square     | Pre-Cast      | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 18:14  |
| 23 | 1564 85      | Lakewood Drive            | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 18:08  |
| 24 | 1562 85      | Lakewood Drive            | D          | Block         | No         |          | D          |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 18:04  |
| 25 | 1560 85      | Young Avenue              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 18:04  |
| 26 | 5255 85      | Remigio Road              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 18:00  |
| 27 |              |                           | Square     | Block         |            |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 17:55  |
| 28 |              |                           | Square     | Block         |            |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 17:53  |
| 29 | 5377 83      | Eden Park Drive           | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 17:48  |
| 30 | 1790 74      | Eden Park Drive Extension | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 17:47  |
| 31 | 9999 61      |                           | Square     | Block         |            |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:41  |
| 32 | 2457 61      | Hickory Road              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:39  |
| 33 | 2454 61      | Hickory Road              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:38  |
| 34 | 2143 72      | Hickory Road              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:34  |
| 35 | 2150 72      | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:33  |
| 36 | 2152 72      | Hickory Road              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:32  |
| 37 | 2160 72      | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:31  |
| 38 | 2162 72      | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:30  |
| 39 | 2158 72      | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:30  |
| 40 | 2159 72      | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:29  |
| 41 | 2166 72      | Hickory Road              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:28  |
| 42 | 2165 72      | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:28  |
| 43 | 2170 63      | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:26  |
| 44 | 2169 63      | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:26  |
| 45 | 287 64       | Hickory Road              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:25  |
| 46 | 286 64       | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:24  |
| 47 | 285 64       | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:23  |
| 48 | 284 64       | Hickory Road              | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:23  |
| 49 | 2116 73      | Hoppin Hill Road          | Square     | Block         | Yes        |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:21  |
| 50 | 851 55       | Washington St             | D          | Brick         | No         |          | D          |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:16  |
| 51 | 813 55       | Washington St             | D          | Brick         | No         |          | D          |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:15  |
| 52 | 852 55       | Washington St             | D          | Brick         | No         |          | D          |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:15  |
| 53 | 5784 44      | Roosevelt Avenue          | D          | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:06  |
| 54 | 654 43       | Crescent Avenue           | D          | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 15:01  |
| 55 | 648 43       | Kendall Street            | Square     | Block         |            |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:59  |
| 56 | 647 43       | Kendall Street            | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:58  |
| 57 | 616 43       | Westside Avenue           | Square     | Block         |            |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:53  |
| 58 | 679 54       | Metcalf Road              | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:52  |
| 59 | 663 54       | Crescent Avenue           | D          | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:44  |
| 60 | 657 54       | Amuet Blvd                | Square     | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:43  |
| 61 | 5765 44      | Amvet Boulevard           | D          | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:41  |
| 62 | 635 43       | Kendall Street            | D          | Block         | No         |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:40  |
| 63 |              |                           | D          | Brick         |            |          | Square     |         |             |                     |               |          |          |          |          |          |          | OK               | 4/5/2022 14:35  |

|     |          |                   |        |          |    |     |        |         |    |          |      |     |  |          |                  |
|-----|----------|-------------------|--------|----------|----|-----|--------|---------|----|----------|------|-----|--|----------|------------------|
| 64  | 5516 33  | Arnold Road       | D      | Brick    | No |     | Square |         |    |          |      |     |  | OK       | 4/5/2022 14:34   |
| 65  | 5517 33  | Arnold Road       | Square | Brick    | No |     | Square |         |    |          |      |     |  | OK       | 4/5/2022 14:32   |
| 66  | 5389 83  | Colonial Road     | Square | Pre-Cast | No | Yes | Square | Greater | 0  | Pre-Cast |      |     |  | OK       | 11/23/2021 16:42 |
| 67  | 1890 38  | Kimberly Drive    |        | Block    | No |     | Square | Greater | 0  | Block    |      |     |  | OK       | 11/17/2021 18:56 |
| 68  |          |                   |        |          |    |     | Square | Less    | 0  | Block    | Pipe | Top |  | UnProb   | 11/17/2021 17:45 |
| 69  | 1885 38  | Judith Drive      |        | Block    | No |     | Square | Greater | 0  | Block    |      |     |  | OK       | 11/17/2021 17:41 |
| 70  |          |                   |        |          |    |     | Square | Greater | 0  | Block    |      |     |  | OK       | 11/17/2021 15:41 |
| 71  | 1884 38  | Judith Drive      |        | Block    | No |     | Square | Greater | 0  | Block    |      |     |  | OK       | 11/17/2021 15:39 |
| 72  |          |                   |        |          |    |     | Square |         | 0  | Block    |      |     |  | OK       | 11/17/2021 15:34 |
| 73  | 1852 49  | Armstrong Drive   |        | Block    | No |     | Square | Greater | 0  | Block    |      |     |  | OK       | 11/17/2021 15:33 |
| 74  | 1851 49  | Armstrong Drive   |        | Block    | No |     | Square | Greater | 0  | Block    |      |     |  | OK       | 11/17/2021 15:31 |
| 75  | 2528 116 | May Street        |        | Block    | No | Yes | D      | Less    | 0  | Block    |      |     |  | OK       | 11/15/2021 14:01 |
| 76  | 2535 116 | May Street        |        | Block    | No | Yes | D      | Full    | 0  | Block    | Pipe |     |  | UnOK     | 11/3/2021 13:57  |
| 77  | 666 22   | Broad Street      | Square | Block    | No | Yes | Square | Greater |    | Block    |      |     |  | OK       | 10/21/2021 18:33 |
| 78  | 665 22   | School Street     | Square | Block    | No | Yes | Square | Greater |    | Block    |      |     |  | OK       | 10/21/2021 18:33 |
| 79  | 662 22   | School Street     | Square | Block    | No | Yes | Square | Greater |    | Block    |      |     |  | OK       | 10/21/2021 18:32 |
| 80  | 663 22   | Broad Street      | Square | Block    | No | Yes | Square | Greater |    | Block    |      |     |  | OK       | 10/21/2021 18:32 |
| 81  | 664 22   | Broad Street      | Square | Block    | No | Yes | Square | Greater |    | Pre-Cast |      |     |  | Problem  | 10/21/2021 18:30 |
| 82  | 1352 23  | School Street     |        | Brick    | No |     | Square | Greater |    | Stone    |      |     |  | Problem  | 10/18/2021 13:34 |
| 83  | 2971 98  | Old Post Road     | Square | Block    | No |     | Square | Greater |    | Block    |      |     |  | OK       | 10/13/2021 17:44 |
| 84  | 5607 34  | Smith Street      |        | Block    | No |     | D      | Greater |    | Block    |      |     |  | OK       | 10/13/2021 17:43 |
| 85  | 2956 99  | Mount Hope Street | D      | Block    | No | Yes | D      | Greater |    | Block    |      |     |  | OK       | 10/13/2021 16:55 |
| 86  | 5729 44  | East Street       |        | Block    | No |     | Square | Greater |    | Pre-Cast |      |     |  | OK       | 10/12/2021 16:56 |
| 87  |          |                   |        |          |    |     | Square | Greater |    | Pre-Cast |      |     |  | OK       | 10/12/2021 16:05 |
| 88  | 5728 44  | East Street       |        | Block    | No |     | Square | Greater |    | Pre-Cast |      |     |  | OK       | 10/12/2021 14:44 |
| 89  |          |                   | Double |          |    |     | Double | Greater |    | Pre-Cast |      |     |  | OK       | 10/12/2021 14:44 |
| 90  | 5755 44  | Chestnut Street   |        | Block    | No |     | Square | Greater |    | Block    |      |     |  | OK       | 10/7/2021 18:05  |
| 91  | 5752 44  | Chestnut Street   |        | Block    | No |     | Square | Full    |    | Block    |      |     |  | UnOK     | 10/7/2021 17:03  |
| 92  | 5733 44  | Chestnut Street   |        | Brick    | No |     | Square | Full    |    | Brick    |      |     |  | OK       | 10/7/2021 16:31  |
| 93  | 5753 44  | Chestnut Street   |        | Block    | No |     | Square | Full    |    | Block    |      |     |  | OK       | 10/7/2021 14:56  |
| 94  | 5754 44  | Chestnut Street   |        | Block    | No |     | Square | Full    |    | Block    |      |     |  | OK       | 10/7/2021 14:40  |
| 95  | 1063 56  | Chestnut Street   |        | Block    | No |     | Square | Full    |    | Block    |      |     |  | OK       | 10/7/2021 14:06  |
| 96  | 1062 56  | Chestnut Street   |        | Block    | No |     | Square | Greater |    | Block    |      |     |  | UnOK     | 10/7/2021 12:32  |
| 97  | 2546 112 | Haduk Drive       |        | Pre-Cast | No | Yes | Square | Less    | 4  | Pre-Cast |      |     |  | OK       | 9/22/2021 15:35  |
| 98  | 2550 112 | Haduk Drive       |        | Pre-Cast | No | Yes | Square | Less    | 4  | Pre-Cast |      |     |  | OK       | 9/22/2021 15:30  |
| 99  | 2549 112 | Haduk Drive       |        | Pre-Cast | No | Yes | Square | Less    | 4  | Pre-Cast |      |     |  | OK       | 9/22/2021 15:26  |
| 100 | 2545 112 | Haduk Drive       |        | Pre-Cast | No | Yes | Square | Less    | 4  | Pre-Cast |      |     |  | OK       | 9/22/2021 15:21  |
| 101 | 2544 116 | Haduk Drive       |        | Block    | No | Yes | D      | Less    | 3  | Block    |      |     |  | OK       | 9/22/2021 15:16  |
| 102 | 2542 116 | Haduk Drive       |        | Block    | No | Yes | D      | Less    | 4  | Block    |      |     |  | OK       | 9/22/2021 15:12  |
| 103 | 2540 116 | Haduk Drive       |        | Block    | No | Yes | D      | Greater | 3  | Block    |      |     |  | Vac      | 9/22/2021 15:06  |
| 104 | 2530 116 | May Street        |        | Block    | No | Yes | D      | Greater | 7  | Block    | Pipe |     |  | UnOK     | 9/22/2021 13:41  |
| 105 | 2532 116 | May Street        |        | Block    | No | Yes | Square | Greater | 5  | Pre-Cast |      |     |  | OK       | 9/22/2021 13:24  |
| 106 | 2538 117 |                   |        |          |    | Yes | D      | Greater | 7  | Block    | Ring | Top |  | Problem  | 9/22/2021 13:13  |
| 107 | 2627 117 | May Street        |        | Block    | No | Yes | D      | Less    | 0  | Block    |      |     |  | OK       | 9/22/2021 13:07  |
| 108 | 2628 117 | May Street        |        | Block    | No | Yes | D      | Less    | 0  | Block    |      |     |  | OK       | 9/22/2021 13:01  |
| 109 | 2629 117 | May Street        |        | Block    | No | Yes | D      | Greater | 12 | Block    | Pipe |     |  | UnOK     | 9/22/2021 12:21  |
| 110 | 2626 117 | May Street        |        | Block    | No | Yes | D      | Greater | 8  | Block    | Pipe |     |  | UnOK     | 9/22/2021 12:13  |
| 111 | 2537 117 |                   |        |          |    | Yes | D      | Greater | 8  | Block    |      |     |  | OK       | 9/22/2021 12:07  |
| 112 | 2536 116 | May Street        |        | Block    | No | Yes | D      | Greater | 5  | Block    |      |     |  | OK       | 9/22/2021 12:00  |
| 113 | 2527 116 | May Street        |        | Block    | No | Yes | D      | Less    | 4  | Block    | Pipe |     |  | OK       | 9/22/2021 11:51  |
| 114 | 2523 116 | May Street        |        | Brick    | No | Yes | D      | Less    | 3  | Stone    |      |     |  | OK       | 9/22/2021 11:44  |
| 115 | 9999 34  |                   |        |          |    | No  | Square | Less    | 1  | Block    |      |     |  | OK       | 9/9/2021 16:34   |
| 116 | 9999 34  |                   |        |          |    | No  | Square | Less    | 2  | Block    |      |     |  | OK       | 9/9/2021 16:33   |
| 117 | 5618 34  | Smith Street      |        | Brick    | No | No  | Square | Less    | 0  | Brick    |      |     |  | OK       | 9/9/2021 16:32   |
| 118 | 5614 34  | Smith Street      |        | Block    | No | No  | D      | Less    | 4  | Block    |      |     |  | OK       | 9/9/2021 15:41   |
| 119 | 5606 34  | Smith Street      |        | Block    | No | No  | D      | Less    | 0  | Block    |      |     |  | OK       | 9/9/2021 15:27   |
| 120 | 5565 34  | Smith Street      |        |          | No | No  | Square | Less    | 0  | Block    |      |     |  | OK       | 9/9/2021 15:23   |
| 121 | 5566 34  | Smith Street      |        | Pre-Cast | No | No  | Square | Full    | 16 | Pre-Cast |      |     |  | Vac      | 9/9/2021 14:37   |
| 122 | 5569 34  | Smith Street      |        | Pre-Cast | No | No  | Square | Greater | 9  | Pre-Cast |      |     |  | OK       | 9/9/2021 14:27   |
| 123 | 5608 34  | Smith Street      |        | Block    | No | No  | D      | Greater | 8  | Block    | Ring |     |  | Problem  | 9/9/2021 14:12   |
| 124 | 5615 34  | Smith Street      |        | Block    | No | No  | Square | Greater | 4  |          |      |     |  | OK       | 9/9/2021 14:03   |
| 125 | 5613 34  | Smith Street      |        | Block    | No | No  | D      | Greater | 10 | Block    | Ring | Top |  | Priority | 9/9/2021 13:46   |
| 126 | 5617 34  | Smith Street      |        | Block    | No | No  | Square | Greater | 8  | Block    | Ring |     |  | Problem  | 9/9/2021 13:39   |
| 127 | 5620 34  | Orne Street       |        | Block    | No | Yes | Square | Less    | 4  | Block    |      |     |  | OK       | 9/9/2021 12:37   |

|     |          |              |          |          |     |        |         |      |          |          |      |         |                 |
|-----|----------|--------------|----------|----------|-----|--------|---------|------|----------|----------|------|---------|-----------------|
| 128 | 9999 34  |              |          |          | Yes | D      | Greater | 5    | Block    |          |      | OK      | 9/9/2021 12:26  |
| 129 | 5629 45  | Orne Street  | Block    | No       | Yes | D      | Greater | 9    | Block    | Pipe     |      | UnOK    | 9/9/2021 12:19  |
| 130 | 5631 45  | Orne Street  | Block    | No       | Yes | Square | Greater | 8    | Block    | Pipe     |      | UnOK    | 9/9/2021 12:08  |
| 131 | 5630 45  | Orne Street  | Block    | No       | Yes | D      | Greater | 6    | Block    | Pipe     | Pipe | UnOK    | 9/9/2021 12:00  |
| 132 | 5625 34  | Orne Street  | Block    | No       | Yes | D      | Greater | 8    | Block    |          |      | OK      | 9/9/2021 11:52  |
| 133 | 5619 34  | Orne Street  | Block    | No       | Yes | Square | Less    | 2    | Block    |          |      | OK      | 9/9/2021 11:41  |
| 134 | 2924 107 | Cushman Road | Square   | Pre-Cast | No  | Yes    | Square  | Full |          | Pre-Cast |      | OK      | 8/24/2021 19:05 |
| 135 |          |              |          |          | Yes | Square | Full    | 20   | Pre-Cast |          |      | OK      | 8/2/2021 15:32  |
| 136 | 2515 116 | Mendon Road  | Block    | No       | Yes | D      | Greater | 6    | Block    |          |      | OK      | 8/2/2021 15:21  |
| 137 | 2514 116 | Mendon Road  | Block    | No       | Yes | D      | Greater | 9    | Block    |          |      | OK      | 8/2/2021 15:15  |
| 138 | 2516 116 | Mendon Road  | Block    | No       | Yes | D      | Greater | 7    | Block    | Ring     | Top  | Problem | 8/2/2021 15:05  |
| 139 |          |              |          |          | Yes | Square | Greater | 8    | Pre-Cast |          |      | OK      | 8/2/2021 14:57  |
| 140 | 2511 115 | Depot Street | Pre-Cast | No       | Yes | Square | Greater | 7    | Pre-Cast |          |      | OK      | 8/2/2021 14:48  |
| 141 | 2508 115 | Depot Street | Pre-Cast | No       | Yes | Square | Greater | 7    | Pre-Cast |          |      | OK      | 8/2/2021 14:41  |
| 142 | 2506 115 | Depot Street | Pre-Cast | No       | Yes | Square | Greater | 9    | Pre-Cast |          |      | OK      | 8/2/2021 14:36  |
| 143 | 2509 115 | Depot Street | Pre-Cast | No       | Yes | Square | Greater | 7    | Pre-Cast |          |      | OK      | 8/2/2021 14:29  |
| 144 | 2510 115 | Depot Street | Pre-Cast | No       | Yes | Square | Greater | 17   | Pre-Cast |          |      | OK      | 8/2/2021 13:16  |
| 145 | 2582 111 | Star Lane    | Pre-Cast | No       | Yes | Square |         | 8    | Pre-Cast |          |      | OK      | 8/2/2021 13:06  |
| 146 | 2583 111 | Star Lane    | Pre-Cast | No       | Yes | Square | Less    | 4    | Pre-Cast |          |      | OK      | 8/2/2021 13:00  |
| 147 | 2584 111 | Star Lane    |          |          | Yes | Square | Greater | 6    | Pre-Cast | Grate    |      | Problem | 8/2/2021 12:55  |
| 148 | 2585 111 | Star Lane    | Pre-Cast | No       | Yes | Square | Greater | 8    | Pre-Cast | Grate    |      | Problem | 8/2/2021 12:50  |
| 149 | 2513 115 | Curran Road  | Pre-Cast | No       | Yes | Square | Greater | 5    | Pre-Cast |          |      | OK      | 8/2/2021 12:43  |
| 150 | 2512 115 | Curran Road  | Pre-Cast | No       | Yes | Square | Greater | 6    | Pre-Cast |          |      | OK      | 8/2/2021 12:38  |
|     |          |              |          |          | Yes | Square | Greater | 9    | Pre-Cast |          |      | OK      | 8/2/2021 12:31  |
|     |          |              |          |          | Yes | Square | Greater | 18   | Pre-Cast |          |      | OK      | 8/2/2021 12:23  |

Totals 150 448

15" Orange Peel Bucket (Stetco) - 1.3 cu ft

1 scoop = 1.3CF 0.048 cu yds

total cu yds = 21.504 (NOTE: some basins were cleaned using vac truck - cu yds removed not counted)

|    | OBJECTID | OF_ID  | Inspector | InspectionDate   | Owner | Use         | PipeSize | PipeMaterial | PipeShape | PipeCondition | OutfallType | OutfallMaterial | OutfallCondition | OutfallIssues    | Weather | Discharging | DischargingTo  | DischargeAmount | DischargeClarity | DischargeColor | GeneralNotes  |
|----|----------|--------|-----------|------------------|-------|-------------|----------|--------------|-----------|---------------|-------------|-----------------|------------------|------------------|---------|-------------|----------------|-----------------|------------------|----------------|---|
| 1  | 1403     | OF-172 | DPW       | 7/29/2022 13:02  | Town  | Residential | 18       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 2  | 1404     | OF-173 | DPW       | 7/29/2022 13:07  | Town  | Residential | 18       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 3  | 1407     | OF-176 | DPW       | 7/29/2022 13:22  | Town  | Residential | 15       | RCP          | Round     | Good          | Unknown     | Unknown         | Unknown          | None             | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 4  | 1408     | OF-177 | DPW       | 1/19/2006 5:00   | Town  | Residential | 15       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Clear   | Yes         | Stream         | Trickle         | Clear            | Clear          | 0   |
| 5  | 1410     | OF-179 | DPW       | 8/19/2022 18:17  | Town  | Residential | 60       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | Yes         | River          | Moderate        | Clear            | Clear          | 0   |
| 6  | 1411     | OF-180 | DPW       | 8/19/2022 18:14  | Town  | Residential | 15       | RCP          | Round     | Fair          | Pipe End    | Concrete        | Fair             | Buried Structure | Clear   | No          | Wetlands       | None            | N/A              | N/A            | Buried  |
| 7  | 1412     | OF-1   | DPW       | 1/30/2006 5:00   | Town  | Residential | 36       | RCP          | Arch      | Good          | Pipe End    | Concrete        | Good             | None             | Clear   | Yes         | Stream         | Moderate        | Clear            | Clear          | 0   |
| 8  | 1413     | OF-2   | DPW       | 7/29/2022 13:33  | Town  | Residential | 15       | UNKNOWN      | Unknown   | Unknown       | Unknown     | Unknown         | Unknown          | Buried Structure | Clear   | No          | Stream         | None            | N/A              | N/A            | Could not locate. Possibly under pile of rocks                        |
| 9  | 1414     | OF-3   | DPW       | 9/8/2022 17:11   | Town  | Residential | 15       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Clear   | No          | Stream         | None            | N/A              | N/A            | 0   |
| 10 | 1415     | OF-4   | DPW       | 7/29/2022 13:39  | Town  | Residential | 12       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Clear   | No          | Pond           | None            | N/A              | N/A            | 0   |
| 11 | 1416     | OF-5   | DPW       | 7/29/2022 13:41  | Town  | Residential | 15       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Clear   | No          | Pond           | None            | N/A              | N/A            | 0   |
| 12 | 1417     | OF-6   | DPW       | 7/29/2022 13:42  | Town  | Residential | 12       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Clear   | No          | Pond           | None            | N/A              | N/A            | 0   |
| 13 | 1419     | OF-8   | DPW       | 1/30/2006 5:00   | Town  | Residential | 15       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 14 | 1420     | OF-9   | DPW       | 8/19/2022 17:17  | Town  | Residential | 12       | RCP          | Round     | Good          | Unknown     | Concrete        | Good             | None             | Clear   | No          | Unknown        | None            | N/A              | N/A            | Report from basin   |
| 15 | 1421     | OF-10  | DPW       | 8/15/2022 15:18  | Town  | Residential | 15       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | Minor Blockage   | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 16 | 1422     | OF-11  | DPW       | 8/15/2022 15:31  | Town  | Residential | 12       |              |           |               |             |                 |                  | Fenced In        |         |             |                |                 |                  |                | Dense vegetation can't get too at the moment                          |
| 17 | 1424     | OF-13  | DPW       | 7/29/2022 13:49  | Town  | Residential | 12       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Stream         | None            | N/A              | N/A            | 0   |
| 18 | 1426     | OF-15  | DPW       | 9/8/2022 17:20   | Town  | Residential | 24       | RCP          | Round     | Good          | Flared End  | Stone           | Good             | None             | Clear   | No          | Pond           | None            | N/A              | N/A            | 0   |
| 19 | 1427     | OF-16  | DPW       | 8/4/2022 18:42   | Town  | Residential | 12       |              |           |               |             |                 |                  | None             |         |             |                |                 |                  |                | Did not locate  |
| 20 | 1428     | OF-17  | DPW       | 8/4/2022 18:43   | Town  | Residential | 24       | RCP          | Round     | Fair          | Head Wall   | Stone           | Fair             | None             | Clear   | Unknown     | River          | Moderate        | Clear            | Clear          | 0   |
| 21 | 1429     | OF-18  | DPW       | 1/30/2006 5:00   | Town  | Residential | 24       | RCP          | Round     | Fair          | Flared End  | Concrete        | Fair             | None             | Clear   | No          | River          | None            | N/A              | N/A            | 0   |
| 22 | 1430     | OF-19  | DPW       | 7/1/2022 17:39   | Town  | Residential | 12       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | None             | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 23 | 1437     | OF-26  | DPW       | 12/15/2021 13:18 | Town  | Residential | 36       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | None             | Clear   | Yes         | Stream         | Substantial     | Clear            | Clear          | 0   |
| 24 | 1438     | OF-27  | DPW       | 12/15/2021 13:25 | Town  | Residential | 36       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | None             | Clear   | Yes         | Stream         | Substantial     | Clear            | Clear          | 0   |
| 25 | 1439     | OF-28  | DPW       | 12/15/2021 14:57 | Town  | Residential | 24       | CMP          | Round     | Fair          | Pipe End    | Concrete        | Fair             | None             | Clear   | Yes         | Wetlands       | Moderate        | Clear            | Clear          | 0   |
| 26 | 1440     | OF-29  | DPW       | 12/15/2021 17:42 | Town  | Residential | 60       | CMP          | Arch      | Good          | Other       | Concrete        | Good             | Debris           | Clear   | Yes         | Stream         | Moderate        | Clear            | Clear          | 0   |
| 27 | 1441     | OF-30  | DPW       | 8/19/2022 17:05  | Town  | Residential | 18       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 28 | 1443     | OF-32  | DPW       | 12/15/2021 17:35 | Town  | Residential | 18       | CMP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 29 | 1444     | OF-33  | DPW       | 12/15/2021 17:37 | Town  | Residential | 18       | CMP          | Round     | Good          | Flared End  | Concrete        | Damaged          | Debris           | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 30 | 1446     | OF-35  | DPW       | 1/30/2006 5:00   | Town  | Residential | 24       |              |           |               |             |                 |                  | None             |         |             |                |                 |                  |                | In backyard behind fence  |
| 31 | 1447     | OF-36  | DPW       | 8/19/2022 15:38  | Town  | Residential | 12       | HDPE         | Round     | Good          | Pipe End    | HDPE            | Good             | None             | Clear   | No          | Lake           | None            | N/A              | N/A            | 0   |
| 32 | 1449     | OF-38  | DPW       | 6/3/2021 15:11   | Town  | Residential | 12       | HDPE         | Circular  | Good          | Wing Wall   | HDPE            | Good             | None             |         |             |                |                 |                  |                | 0   |
| 33 | 1450     | OF-39  | DPW       | 8/19/2022 15:14  | Town  | Residential | 12       | STEEL        | Round     | Good          | Head Wall   | Stone           | Good             | None             | Clear   | No          | River          | None            | N/A              | N/A            | 0   |
| 34 | 1451     | OF-40  | DPW       | 8/19/2022 15:16  | Town  | Residential | 10       | RCP          | Round     | Good          | Head Wall   | Stone           | Good             | None             | Clear   | No          | River          | None            | Clear            | Clear          | 0   |
| 35 | 1452     | OF-41  | DPW       | 8/19/2022 15:04  | Town  | Residential | 8        | PVC          | Round     | Fair          | Head Wall   | Stone           | Fair             | None             | Clear   | No          | River          | None            | N/A              | N/A            | 0   |
| 36 | 1453     | OF-42  | DPW       | 8/19/2022 15:08  | Town  | Residential | 8        | RCP          | Round     | Fair          | Head Wall   | Stone           | Fair             | None             | Clear   | No          | River          | None            | N/A              | N/A            | 0   |
| 37 | 1454     | OF-43  | DPW       | 1/31/2004 5:00   | Town  | Residential | 48       | RCP          | Round     | Good          | Wing Wall   | Concrete        | Good             | None             | Clear   | No          | Lake           | None            | N/A              | N/A            | 0   |
| 38 | 1455     | OF-44  | DPW       | 8/4/2022 13:41   | Town  | Residential | 15       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | None             | Clear   | No          | Lake           | None            | N/A              | N/A            | 0   |
| 39 | 1456     | OF-45  | DPW       | 7/29/2022 17:13  | Town  | Residential | 12       | RCP          | Round     | Fair          | Pipe End    | Concrete        | Fair             | Major Blockage   | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 40 | 1457     | OF-46  | DPW       | 7/29/2022 17:25  | Town  | Residential | 12       | RCP          | Round     | Good          | Pipe End    | Concrete        | Fair             | Major Blockage   | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 41 | 1458     | OF-47  | DPW       | 7/29/2022 17:55  | Town  | Residential | 12       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | Minor Blockage   | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 42 | 1459     | OF-48  | DPW       | 8/4/2022 13:31   | Town  | Residential | 15       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 43 | 1460     | OF-49  | DPW       | 8/4/2022 13:33   | Town  | Residential | 12       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 44 | 1461     | OF-50  | DPW       | 8/16/2022 17:13  | Town  | Residential | 15       |              |           |               |             |                 | Unknown          | Fenced In        |         |             |                |                 |                  |                | 0   |
| 45 | 1462     | OF-51  | DPW       | 1/31/2006 5:00   | Town  | Residential | 12       | UNKNOWN      | Unknown   | Unknown       |             |                 |                  | Fenced In        | Clear   |             |                |                 |                  |                | 0   |
| 46 | 1463     | OF-52  | DPW       | 8/5/2022 11:30   | Town  | Residential | 18       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 47 | 1464     | OF-53  | DPW       | 8/5/2022 11:31   | Town  | Residential | 15       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 48 | 1465     | OF-54  | DPW       | 8/5/2022 11:32   | Town  | Residential | 12       | HDPE         | Round     | Good          | Flared End  | HDPE            | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 49 | 1466     | OF-55  | DPW       | 8/5/2022 11:34   | Town  | Residential | 12       | HDPE         | Round     | Good          | Flared End  | HDPE            | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 50 | 1467     | OF-56  | DPW       | 8/5/2022 11:35   | Town  | Residential | 15       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 51 | 1468     | OF-57  | DPW       | 8/5/2022 11:36   | Town  | Residential | 8        | HDPE         | Round     | Good          | Flared End  | HDPE            | Fair             | Debris           | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 52 | 1469     | OF-58  | DPW       | 1/31/2006 5:00   | Town  | Residential | 12       | Earth        | Circular  | NULL          | NULL        | Other           | Fair             | None             | Clear   | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 53 | 1470     | OF-59  | DPW       | 1/31/2006 5:00   | Town  | Residential | 15       | Concrete     | Circular  | NULL          | NULL        | Concrete        | Good             | None             | Clear   | Yes         | Stream         | Trickle         | Clear            | N/A            | 0   |
| 54 | 1471     | OF-60  | DPW       | 1/31/2006 5:00   | Town  | Residential | 15       | Concrete     | Circular  | NULL          | NULL        | Concrete        | Good             | None             | Clear   | Yes         | Stream         | Moderate        | Clear            | N/A            | 0   |
| 55 | 1472     | OF-61  | DPW       | 8/19/2022 14:35  | Town  | Residential | 18       | RCP          | Round     | Poor          | Pipe End    | Concrete        | Good             | Major Blockage   | Clear   | No          | Wetlands       | None            | N/A              | N/A            | Inspection done at street   |
| 56 | 1473     | OF-62  | DPW       | 2/1/2006 5:00    | Town  | Residential | 12       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | None             | Clear   | No          | Pond           | None            | N/A              | N/A            | 0   |
| 57 | 1474     | OF-63  | DPW       | 2/1/2006 5:00    | Town  | Residential | 18       | CMP          | Round     | Good          | Pipe End    | Stone           | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 58 | 1475     | OF-64  | DPW       | 5/27/2022 16:58  | Town  | Residential | 12       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Cloudy  | No          | Pond           | None            | N/A              | N/A            | 0   |
| 59 | 1476     | OF-65  | DPW       | 8/5/2022 14:36   | Town  | Residential | 15       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Cloudy  | No          | Pond           | None            | N/A              | N/A            | 0   |
| 60 | 1477     | OF-66  | DPW       | 5/27/2022 17:25  | Town  | Residential | 12       | RCP          | Round     | Unknown       | Unknown     | Unknown         | Unknown          | None             | Clear   | No          |                |                 |                  |                | Covered with brush and debris   |
| 61 | 1478     | OF-67  | DPW       | 5/27/2022 15:19  | Town  | Residential | 18       | RCP          | Round     | Good          | Flared End  | Concrete        | Good             | None             | Cloudy  | No          | Pond           | None            | N/A              | N/A            | 0   |
| 62 | 1479     | OF-68  | DPW       | 8/5/2022 13:11   | Town  | Residential | 12       | RCP          | Round     | Good          | Head Wall   | Concrete        | Fair             | None             | Cloudy  | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 63 | 1480     | OF-69  | DPW       | 8/5/2022 13:54   | Town  | Residential | 24       |              |           |               |             |                 |                  | Fenced In        |         |             |                |                 |                  |                | 0   |
| 64 | 1481     | OF-70  | DPW       | 8/5/2022 13:19   | Town  | Residential | 24       | RCP          | Round     | Good          | Head Wall   | Concrete        | Fair             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 65 | 1482     | OF-71  | DPW       | 5/27/2022 15:01  | Town  | Residential | 30       | RCP          | Round     | Good          | Wing Wall   | Concrete        | Good             | None             | Clear   | Yes         | Stream         | Moderate        | Clear            | Clear          | Orange coloring to bottom of outfall from pipe down stream a distance |
| 66 | 1483     | OF-72  | DPW       | 8/5/2022 4:00    | Town  | Residential | 24       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | None             | Clear   | No          | Detention Pond | None            | N/A              | N/A            | 0   |
| 67 | 1484     | OF-73  | DPW       | 5/27/2022 14:50  | Town  | Residential | 12       | RCP          | Round     | Good          | Wing Wall   | Concrete        | Good             | None             | Cloudy  | No          | Stream         | None            | N/A              | N/A            | 0   |
| 68 | 1485     | OF-74  | DPW       | 5/27/2022 14:52  | Town  | Residential | 12       | RCP          | Round     | Good          | Wing Wall   | Concrete        | Good             | None             | Cloudy  | No          | Stream         | None            | N/A              | N/A            | 0   |
| 69 | 1486     | OF-75  | DPW       | 8/5/2022 13:49   | Town  | Residential | 12       | RCP          | Round     | Fair          | Head Wall   | Concrete        | Good             | None             | Cloudy  | No          | Wetlands       | None            | N/A              | N/A            | 0   |
| 70 | 1487     | OF-76  | DPW       | 5/27/2022 14:42  | Town  | Residential | 24       | RCP          | Round     | Good          | Head Wall   | Concrete        | Poor             | Damaged          | Cloudy  | No          | Stream         | None            | N/A              | N/A            | Sink hole behind head wall  |
| 71 | 1488     | OF-77  | DPW       | 8/5/2022 14:24   | Town  | Residential | 15       | RCP          | Round     | Good          | Head Wall   | Concrete        | Good             | None             | Cloudy  | No          | Pond           | None            | N/A              | N/A            | 0   |
| 72 | 1490     | OF-79  | DPW       | 5/27/2022 17:23  | Town  | Residential | 12       | RCP          | Round     | Good          | Wing Wall   | Concrete        | Good             | None             | Clear   | No          | Stream         | None            | N/A              | N/A            | 0   |
| 73 | 1491     | OF-80  | DPW       | 5/27/2022 17:23  | Town  | Residential | 12       | RCP          | Round     | Good          | Wing Wall   | Concrete        | Good             | None             | Clear   | No          | Stream         | None            | N/A              | N/A            | 0   |
| 74 | 1492     | OF-81  | DPW       | 5/27/2022 14:13  | Town  | Residential | 18       | RCP          | Round     | Good          | Pipe End    | Concrete        | Good             | None             | Cloudy  | No          | Stream         | None            | N/A              | N/A            | 0   |
| 75 | 1493     | OF-82  | DPW       | 5/27/2022 14:11  | Town  | Residential | 6        | CI           | Round     | Good          | Head Wall   | Stone           | Good             | None             | Cloudy  | No          | Stream         | None            | N/A              | N/A            | 0   |
| 76 | 1494     | OF-83  | DPW       | 5/27/2022 13:54  | Town  | Residential | 12       | RCP          | Round     | Good</        |             |                 |                  |                  |         |             |                |                 |                  |                |   |

|     |      |        |     |                  |      |             |    |          |             |         |            |          |         |                   |        |         |                |          |        |        |   |   |
|-----|------|--------|-----|------------------|------|-------------|----|----------|-------------|---------|------------|----------|---------|-------------------|--------|---------|----------------|----------|--------|--------|---|---|
| 89  | 1508 | OF-97  | DPW | 5/27/2022 18:09  | Town | Residential | 15 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Cloudy | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 90  | 1509 | OF-98  | DPW | 5/27/2022 18:02  | Town | Residential | 18 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 91  | 1510 | OF-99  | DPW | 2/1/2006 5:00    | Town | Residential | 12 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 92  | 1511 | OF-100 | DPW | 2/1/2006 5:00    | Town | Residential | 18 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 93  | 1514 | OF-103 | DPW | 2/1/2006 5:00    | Town | Residential | 12 | RCP      | Round       | Good    | Wing Wall  | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 94  | 1515 | OF-104 | DPW | 5/27/2022 11:58  | Town | Residential | 12 | RCP      | Round       | Good    | Wing Wall  | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 95  | 1516 | OF-105 | DPW | 5/27/2022 12:09  | Town | Residential | 12 | RCP      | Round       | Poor    | Pipe End   | Concrete | Poor    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 96  | 1517 | OF-106 | DPW | 8/5/2022 16:43   | Town | Residential | 72 | RCP      | Round       | Good    | Wing Wall  | Concrete | Good    | None              | Cloudy | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 97  | 1518 | OF-107 | DPW | 2/1/2006 5:00    | Town | Residential | 12 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | Debris            | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 98  | 1519 | OF-108 | DPW | 7/1/2022 13:49   | Town | Residential | 15 | RCP      | Round       | Good    | Head Wall  | Stone    | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 99  | 1520 | OF-109 | DPW | 7/1/2022 13:48   | Town | Residential | 15 | RCP      | Round       | Good    | Head Wall  | Stone    | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 100 | 1521 | OF-110 | DPW | 7/1/2022 13:52   | Town | Residential | 15 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 101 | 1525 | OF-114 | DPW | 7/1/2022 14:02   | Town | Residential | 18 | RCP      | Round       | Good    | Pipe End   | Stone    | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 102 | 1526 | OF-115 | DPW | 7/1/2022 14:00   | Town | Residential | 15 | RCP      | Round       | Good    | Pipe End   | Stone    | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 103 | 1527 | OF-116 | DPW | 7/1/2022 13:58   | Town | Residential | 15 | RCP      | Round       | Good    | Pipe End   | Stone    | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 104 | 1528 | OF-117 | DPW | 8/15/2022 14:31  | Town | Residential | 12 | RCP      | Round       | Good    | Pipe End   | Concrete | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 105 | 1530 | OF-119 | DPW | 2/1/2006 5:00    | Town | Residential | 18 | Concrete | Circular    | NULL    | NULL       | NULL     | None    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 106 | 1531 | OF-120 | DPW | 2/1/2006 5:00    | Town | Residential | 24 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 107 | 1536 | OF-125 | DPW | 7/1/2022 16:59   | Town | Residential | 12 | RCP      | Round       | Good    | Head Wall  | Concrete | Fair    | None              | Clear  | Unknown | Stream         | None     | N/A    | N/A    | 0 |   |
| 108 | 1537 | OF-126 | DPW | 7/1/2022 17:01   | Town | Residential | 12 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 109 | 1539 | OF-128 | DPW | 8/19/2022 17:58  | Town | Residential | 12 | RCP      | Round       | Fair    | Wing Wall  | Stone    | Fair    | Major Blockage    | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 110 | 1547 | OF-136 | DPW | 12/15/2021 15:21 | Town | Residential | 24 | RCP      | Round       | Good    | Head Wall  | Stone    | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 111 | 1548 | OF-137 | DPW | 12/15/2021 15:30 | Town | Residential | 15 | RCP      | Round       | Good    | Head Wall  | Stone    | Fair    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 112 | 1549 | OF-138 | DPW | 12/15/2021 15:25 | Town | Residential | 12 | RCP      | Round       | Fair    | Pipe End   | Concrete | Poor    | Multiple Problems | Clear  | Yes     | Wetlands       | Moderate | Clear  | Clear  | 0 |   |
| 113 | 1550 | OF-139 | DPW | 8/15/2022 12:13  | Town | Residential | 18 | RCP      | Round       | Good    | Wing Wall  | Concrete | Good    | None              | Clear  | Yes     | River          | Moderate | Clear  | Red    | 0 |   |
| 114 | 1551 | OF-140 | DPW | 2/2/2006 5:00    | Town | Residential | 12 | RCP      | Round       | Fair    | Pipe End   | Concrete | Fair    | None              | Clear  | No      | River          | None     | N/A    | N/A    | 0 |   |
| 115 | 1552 | OF-141 | DPW | 12/15/2021 15:35 | Town | Residential | 48 | RCP      | Rectangular | Good    | Wing Wall  | Concrete | Good    | None              | Clear  | Yes     | Wetlands       | Moderate | Clear  | Clear  | 0 |   |
| 116 | 1553 | OF-142 | DPW | 12/15/2021 15:38 | Town | Residential | 18 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 117 | 1554 | OF-143 | DPW | 12/15/2021 15:42 | Town | Residential | 60 | RCP      | Rectangular | Good    | Head Wall  | Concrete | Good    | None              | Clear  | Yes     | Stream         | Moderate | Clear  | Clear  | 0 |   |
| 118 | 1555 | OF-144 | DPW | 12/15/2021 15:44 | Town | Residential | 18 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 119 | 1556 | OF-145 | DPW | 12/15/2021 15:45 | Town | Residential | 18 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 120 | 1557 | OF-146 | DPW | 12/15/2021 17:23 | Town | Residential | 24 | CMP      | Other       | Good    | Flared End | Concrete | Good    | None              | Clear  | Yes     | Stream         | Drip     | Clear  | Clear  | 0 |   |
| 121 | 1558 | OF-147 | DPW | 12/15/2021 17:26 | Town | Residential | 48 | CMP      | Arch        | Good    | Head Wall  | Concrete | Good    | None              | Clear  | Yes     | Stream         | Moderate | Clear  | Clear  | 0 |   |
| 122 | 1559 | OF-148 | DPW | 12/15/2021 17:27 | Town | Residential | 18 | CMP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 123 | 1560 | OF-149 | DPW | 7/29/2022 11:38  | Town | Residential | 18 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | Yes     | Wetlands       | Trickle  | Clear  | Clear  | 0 |   |
| 124 | 1561 | OF-150 | DPW | 7/29/2022 11:34  | Town | Residential | 36 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | Yes     | Wetlands       | Trickle  | Clear  | Clear  | 0 |   |
| 125 | 1562 | OF-151 | DPW | 7/29/2022 11:31  | Town | Residential | 12 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 126 | 1563 | OF-152 | DPW | 7/29/2022 11:45  | Town | Residential | 10 | PVC      | Round       | Fair    | Head Wall  | Concrete | Fair    | Major Blockage    | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 127 | 1564 | OF-153 | DPW | 7/29/2022 11:43  | Town | Residential | 18 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 128 | 1570 | OF-159 | DPW | 7/29/2022 14:20  | Town | Residential | 18 | PVC      | Round       | Fair    | Pipe End   | HDPE     | Fair    | Minor Blockage    | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 129 | 1571 | OF-160 | DPW | 7/29/2022 14:15  | Town | Residential | 24 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 130 | 1572 | OF-161 | DPW | 7/29/2022 14:17  | Town | Residential | 24 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 131 | 1573 | OF-162 | DPW | 7/29/2022 14:09  | Town | Residential | 12 | RCP      | Round       | Good    | Unknown    | Unknown  | Unknown | Unknown           | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 132 | 1574 | OF-163 | DPW | 7/29/2022 14:10  | Town | Residential | 15 | RCP      | Round       | Good    | Unknown    | Unknown  | Unknown | Unknown           | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 133 | 1579 | OF-168 | DPW | 7/29/2022 11:54  | Town | Residential | 24 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 134 | 1580 | OF-169 | DPW | 1/19/2004 5:00   | Town | Residential | 15 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 135 | 1581 | OF-170 | DPW | 7/29/2022 11:57  | Town | Residential | 30 | RCP      | Round       | Good    | Head Wall  | Concrete | Good    | None              | Clear  | Yes     | Stream         | Drip     | Clear  | Clear  | 0 |   |
| 136 | 1582 | OF-171 | DPW | 7/29/2022 12:08  | Town | Residential | 15 | PVC      | Round       | Good    | Flared End | HDPE     | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 137 | 1584 | OF-182 | DPW | 8/19/2022 18:27  | Town | Residential | 15 |          |             |         |            |          |         | None              |        |         |                |          |        |        |   | 0 |
| 138 | 1587 | OF-185 | DPW | 12/2/2021 19:30  | Town | Residential | 10 | CAP      | Round       | Good    | Pipe End   | Concrete | Poor    | None              | Cloudy | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 139 | 1589 | OF-187 | DPW | 12/2/2021 19:25  | Town | Residential | 8  | PVC      | Unknown     | Unknown | Unknown    | Unknown  | Poor    | Major Blockage    | Cloudy | Yes     | Wetlands       | Moderate | Opaque | Yellow | 0 |   |
| 140 | 1590 | OF-188 | DPW | 9/8/2022 17:37   | Town | Residential | 12 | RCP      | Round       | Fair    | Unknown    | Unknown  | Unknown | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 141 | 1593 | OF-191 | DPW | 1/4/2022 18:55   | Town | Residential | 24 | RCP      | Round       | Good    | Pipe End   | Concrete | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 142 | 1594 | OF-192 | DPW | 1/4/2022 18:48   | Town | Residential | 12 | PVC      | Round       | Good    | Pipe End   | HDPE     | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 143 | 1595 | OF-193 | DPW | 1/4/2022 18:49   | Town | Residential | 12 | PVC      | Round       | Good    | Pipe End   | HDPE     | Good    | None              | Clear  | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 144 | 1602 | OF-200 | DPW | 1/5/2022 14:56   | Town | Residential | 30 | RCP      | Ovalized    | Good    | Pipe End   | Concrete | Good    | None              | Rain   | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 145 | 1603 | OF-201 | DPW | 1/19/2006 5:00   | Town | Residential | 18 | RCP      | Ovalized    | Good    | Pipe End   | Concrete | Good    | None              | Rain   | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 146 | 1606 | OF-204 | DPW | 8/3/2022 12:21   | Town | Residential | 12 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Clear  | No      | River          | None     | N/A    | N/A    | 0 |   |
| 147 | 1612 | OF-210 | DPW | 1/5/2022 15:11   | Town | Residential | 12 | RCP      | Round       | Fair    | Pipe End   | Concrete | Fair    | Debris            | Rain   | Yes     | Stream         | Drip     | Clear  | Clear  | 0 |   |
| 148 | 1613 | OF-211 | DPW | 1/5/2022 15:12   | Town | Residential | 12 | RCP      | Round       | Fair    | Pipe End   | Concrete | Fair    | Major Blockage    | Rain   | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 149 | 1614 | OF-212 | DPW | 1/5/2022 15:09   | Town | Residential | 20 | RCP      | Round       | Fair    | Pipe End   | Concrete | Fair    | None              | Rain   | Yes     | Stream         | Trickle  | Clear  | Clear  | 0 |   |
| 150 | 1618 | OF-216 | DPW | 1/5/2022 15:05   | Town | Residential | 24 | RCP      | Round       | Good    | Flared End | Concrete | Good    | None              | Rain   | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 151 | 1620 | OF-218 | DPW | 1/5/2022 15:15   | Town | Residential | 15 | RCP      | Round       | Good    | Pipe End   | Concrete | Good    | None              | Rain   | Yes     | Stream         | Trickle  | Clear  | Clear  | 0 |   |
| 152 | 1621 | OF-219 | DPW | 1/5/2022 15:14   | Town | Residential | 15 | RCP      | Round       | Good    | Pipe End   | Concrete | Good    | None              | Rain   | Yes     | Stream         | Trickle  | Clear  | Clear  | 0 |   |
| 153 | 1623 | OF-221 | DPW | 7/12/2022 16:03  | Town | Residential | 24 | Concrete | Circular    | Poor    | Pipe End   | Concrete | Poor    | Minor Blockage    | Clear  | Yes     | Wetlands       | Trickle  | Clear  | Clear  | 0 |   |
| 154 | 1624 | OF-222 | DPW | 8/3/2022 11:44   | Town | Residential | 12 | UNKNOWN  | Round       | Fair    | Pipe End   | Unknown  | Poor    | Multiple Problems | Clear  | No      | Lake           | None     | N/A    | N/A    | 0 |   |
| 155 | 1625 | OF-223 | DPW | 8/3/2022 11:53   | Town | Residential | 18 | RCP      | Round       | Good    | Head Wall  | Stone    | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 156 | 1626 | OF-224 | DPW | 1/5/2022 15:50   | Town | Residential | 12 | RCP      | Round       | Good    | Flared End | Concrete | Good    | Debris            | Rain   | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 157 | 1627 | OF-225 | DPW | 1/5/2022 15:43   | Town | Residential | 18 | RCP      | Round       | Good    | Wing Wall  | Concrete | Fair    | None              | Rain   | Yes     | Detention Pond | Trickle  | Clear  | Clear  | 0 |   |
| 158 | 1628 | OF-226 | DPW | 1/5/2022 15:45   | Town | Residential | 24 | RCP      | Round       | Fair    | Pipe End   | Concrete | Good    | None              | Rain   | No      | Detention Pond | None     | N/A    | N/A    | 0 |   |
| 159 | 1635 | OF-233 | DPW | 8/3/2022 13:59   | Town | Residential | 10 | UNKNOWN  | Unknown     | Unknown | Head Wall  | Stone    | Fair    | None              | Clear  | Yes     | Pond           | Moderate | Clear  | Clear  | 0 |   |
| 160 | 1636 | OF-234 | DPW | 8/3/2022 17:03   | Town | Residential | 18 | RCP      | Round       | Good    | Head Wall  | Stone    | Good    | None              | Clear  | No      | Wetlands       | None     | N/A    | N/A    | 0 |   |
| 161 | 1637 | OF-235 | DPW | 8/3/2022 13:42   | Town | Residential | 15 | RCP      | Round       | Fair    | Pipe End   | Concrete | Fair    | Buried Structure  | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 162 | 1638 | OF-236 | DPW | 8/3/2022 13:34   | Town | Residential | 12 | RCP      | Round       | Good    | Pipe End   | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 163 | 1639 | OF-237 | DPW | 8/3/2022 13:50   | Town | Residential | 30 | RCP      | Round       | Good    | Pipe End   | Concrete | Good    | None              | Clear  | No      | Stream         | None     | N/A    | N/A    | 0 |   |
| 164 | 1640 | OF-2   |     |                  |      |             |    |          |             |         |            |          |         |                   |        |         |                |          |        |        |   |   |

|     |      |        |     |                  |      |             |    |          |            |        |            |            |         |                   |        |     |                |          |        |       |  |
|-----|------|--------|-----|------------------|------|-------------|----|----------|------------|--------|------------|------------|---------|-------------------|--------|-----|----------------|----------|--------|-------|--|
| 178 | 1679 | OF-277 | DPW | 12/2/2021 17:35  | Town | Residential | 15 | RCP      | Round      | Good   | Head Wall  | Concrete   | Good    | None              | Clear  | Yes | Stream         | Trickle  | Clear  | Clear | 0  |
| 179 | 1680 | OF-278 | DPW | 12/2/2021 16:25  | Town | Residential | 15 | CAP      | Round      | Good   | Head Wall  | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 180 | 1681 | OF-279 | DPW | 1/20/2006 5:00   | Town | Residential | 15 | CAP      | Round      | Good   | Head Wall  | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 181 | 1682 | OF-280 | DPW | 1/20/2006 5:00   | Town | Residential | 10 | CAP      | Round      | Good   | Head Wall  | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 182 | 1685 | OF-283 | DPW | 8/4/2022 17:38   | Town | Residential | 12 | CMP      | Round      | Good   | Pipe End   | Corr-Metal | Good    | None              | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 183 | 1686 | OF-284 | DPW | 8/4/2022 17:40   | Town | Residential | 12 | CMP      | Round      | Fair   | Pipe End   | Corr-Metal | Fair    | None              | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 184 | 1690 | OF-288 | DPW | 12/2/2021 16:13  | Town | Residential | 12 | CMP      | Round      | Good   | Pipe End   | Corr-Metal | Good    | None              | Clear  | No  | Pond           | None     | N/A    | N/A   | 0  |
| 185 | 1691 | OF-289 | DPW | 8/4/2022 17:45   | Town | Residential | 12 | CMP      | Round      | Good   | Pipe End   | Corr-Metal | Good    | None              | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 186 | 1692 | OF-290 | DPW | 8/4/2022 17:43   | Town | Residential | 12 | CMP      | Round      | Fair   | Pipe End   | Corr-Metal | Fair    | None              | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 187 | 1693 | OF-291 | DPW | 12/2/2021 16:10  | Town | Residential | 12 | CMP      | Round      | Good   | Pipe End   | Corr-Metal | Fair    | None              | Clear  | No  | Pond           | None     | N/A    | N/A   | 0  |
| 188 | 1694 | OF-292 | DPW | 7/5/2022 4:00    | Town | Residential | 12 | RCP      | Round      | Good   | Pipe End   | Concrete   | Good    | None              | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 189 | 1695 | OF-293 | DPW | 7/5/2022 4:00    | Town | Residential | 12 | RCP      | Round      | Good   | Pipe End   | Concrete   | Good    | None              | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 190 | 1697 | OF-295 | DPW | 7/5/2022 17:02   | Town | Residential | 15 | RCP      | Round      | Good   | Flared End | Concrete   | Good    | None              | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 191 | 1699 | OF-297 | DPW | 7/5/2022 4:00    | Town | Residential | 48 | RCP      | Round      | Good   | Flared End | Concrete   | Good    | None              | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 192 | 1700 | OF-298 | DPW | 7/5/2022 4:00    | Town | Residential | 12 |          |            |        |            |            |         | None              |        |     |                |          |        |       | 0  |
| 193 | 1701 | OF-299 | DPW | 7/5/2022 17:11   | Town | Residential | 36 | RCP      | Round      | Good   | Flared End | Concrete   | Good    | None              | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 194 | 1702 | OF-300 | DPW | 7/5/2022 17:09   | Town | Residential | 12 | RCP      | Round      | Good   | Pipe End   | Concrete   | Good    | None              | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 195 | 1703 | OF-301 | DPW | 7/5/2022 18:37   | Town | Residential | 10 | RCP      | Round      | Good   | Wing Wall  | Concrete   | Good    | None              | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 196 | 1704 | OF-302 | DPW | 7/5/2022 4:00    | Town | Residential | 12 | RCP      | Round      | Good   | Pipe End   | Concrete   | Good    | None              | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 197 | 1705 | OF-303 | DPW | 8/3/2022 17:47   | Town | Residential | 12 |          |            |        |            |            |         | Buried Structure  |        |     |                |          |        |       | Could not locate.  |
| 198 | 1706 | OF-304 | DPW | 8/3/2022 17:49   | Town | Residential | 36 | RCP      | Round      | Good   | Flared End | Concrete   | Good    | None              | Clear  | No  | Detention Pond | None     | N/A    | N/A   | 0  |
| 199 | 1707 | OF-305 | DPW | 8/3/2022 17:51   | Town | Residential | 12 | RCP      | Round      | Good   | Head Wall  | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 200 | 1708 | OF-306 | DPW | 8/19/2022 13:06  | Town | Residential | 18 | PVC      | Round      |        | Unknown    | Unknown    | Unknown | None              | Clear  | No  | River          | None     | N/A    | N/A   | Inspection done at street basin                                      |
| 201 | 1709 | OF-307 | DPW | 8/19/2022 13:15  | Town | Residential | 12 |          |            |        |            |            |         | None              |        |     |                |          |        |       | Dense vegetation unable to locate                                    |
| 202 | 1711 | OF-309 | DPW | 1/25/2006 5:00   | Town | Residential | 10 | UNKNOWN  | Unknown    |        | Head Wall  | Stone      | Fair    | None              | Clear  | No  | Pond           | None     | N/A    | N/A   | Dense vegetation could not see pipe                                  |
| 203 | 1712 | OF-310 | DPW | 8/4/2022 15:11   | Town | Residential | 12 | CMP      | Round      | Good   | Pipe End   | Corr-Metal | Good    | Minor Blockage    | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 204 | 1715 | OF-313 | DPW | 8/4/2022 15:05   | Town | Residential | 12 |          |            |        |            |            |         | None              |        |     |                |          |        |       | Can not locate due to vegetation                                     |
| 205 | 1719 | OF-317 | DPW | 7/29/2022 16:59  | Town | Residential | 36 | CMP      | Round      | Fair   | Pipe End   | Corr-Metal | Fair    | Fenced In         | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 206 | 1720 | OF-318 | DPW | 9/8/2022 14:00   | Town | Residential | 30 | RCP      | Round      | Good   | Wing Wall  | Concrete   | Good    | None              | Clear  | Yes | Wetlands       | Moderate | Clear  | Clear | 0  |
| 207 | 1723 | OF-321 | DPW | 8/16/2022 17:36  | Town | Residential | 10 | UNKNOWN  | Unknown    | Broken | Unknown    | Unknown    | Unknown | Multiple Problems | Clear  | No  | Wetlands       | None     | N/A    | N/A   | Possible broken pipe that's buried                                   |
| 208 | 1724 | OF-322 | DPW | 8/4/2022 11:45   | Town | Residential | 12 | UNKNOWN  | Round      |        | Pipe End   | Unknown    | Damaged | Buried Structure  | Clear  | No  | Lake           | None     | N/A    | N/A   | Lawn clippings   |
| 209 | 1725 | OF-323 | DPW | 8/4/2020 13:08   | Town | Residential | 12 | RCP      | Round      | Good   | Pipe End   | Concrete   | Good    | None              | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 210 | 1726 | OF-324 | DPW | 8/4/2022 11:39   | Town | Residential | 12 | RCP      | Round      | Poor   | Head Wall  | Concrete   | Damaged | Damaged           | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 211 | 1727 | OF-325 | DPW | 8/4/2022 11:34   | Town | Residential | 15 | RCP      | Round      | Good   | Flared End | Concrete   | Good    | None              | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 212 | 1728 | OF-326 | DPW | 8/4/2022 13:16   | Town | Residential | 12 | PVC      | Round      | Good   | Pipe End   | HDPE       | Good    | None              | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 213 | 1729 | OF-327 | DPW | 8/4/2022 13:14   | Town | Residential | 10 | CMP      | Round      | Good   | Pipe End   | Corr-Metal | Good    | None              | Clear  | No  | Lake           | None     | N/A    | N/A   | 0  |
| 214 | 1730 | OF-328 | DPW | 7/29/2022 16:16  | Town | Residential | 12 | RCP      | Round      | Good   | Head Wall  | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 215 | 1732 | OF-330 | DPW | 7/29/2022 16:24  | Town | Residential | 15 | RCP      | Round      | Good   | Flared End | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 216 | 1733 | OF-331 | DPW | 7/29/2022 16:31  | Town | Residential | 8  | PVC      | Round      | Good   | Pipe End   | HDPE       | Good    | Minor Blockage    | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 217 | 1734 | OF-332 | DPW | 7/29/2022 16:33  | Town | Residential | 12 | RCP      | Round      | Good   | Flared End | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 218 | 1735 | OF-333 | DPW | 7/29/2022 16:44  | Town | Residential | 20 | RCP      | Round      | Good   | Pipe End   | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 219 | 1738 | OF-336 | DPW | 12/2/2021 16:22  | Town | Residential | 10 | CAP      | Round      | Good   | Head Wall  | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 220 | 1739 | OF-337 | DPW | 8/4/2022 17:28   | Town | Residential | 12 | RCP      | Round      | Fair   | Head Wall  | Concrete   | Good    | Buried Structure  | Clear  | No  | Wetlands       | None     | N/A    | N/A   | Buried   |
| 221 | 1740 | OF-338 | DPW | 8/4/2022 17:30   | Town | Residential | 12 | RCP      | Round      | Fair   | Head Wall  | Concrete   | Good    | None              | Clear  | Yes | Wetlands       | Drip     | Clear  | Clear | 0  |
| 222 | 1744 | OF-342 | DPW | 8/5/2022 11:59   | Town | Residential | 10 | RCP      | Round      | Fair   | Pipe End   | Concrete   | Damaged | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 223 | 1745 | OF-343 | DPW | 8/15/2022 11:45  | Town | Residential | 18 | RCP      | Round      | Good   | Pipe End   | Concrete   | Good    | None              | Clear  | No  | Stream         | None     | N/A    | N/A   | 0  |
| 224 | 1746 | OF-344 | DPW | 8/15/2022 11:47  | Town | Residential | 24 | RCP      | Round      | Good   | Pipe End   | Concrete   | Good    | None              | Clear  | No  | Stream         | None     | N/A    | N/A   | 0  |
| 225 | 1754 | OF-352 | DPW | 8/5/2022 12:09   | Town | Residential | 8  | RCP      | Round      | Fair   | Head Wall  | Concrete   | Fair    | None              | Clear  | No  | Stream         | None     | N/A    | N/A   | 0  |
| 226 | 1755 | OF-353 | DPW | 8/5/2022 12:13   | Town | Residential | 15 | RCP      | Round      | Fair   | Wing Wall  | Concrete   | Good    | None              | Cloudy | No  | Stream         | None     | N/A    | N/A   | 0  |
| 227 | 1756 | OF-354 | DPW | 8/5/2022 12:12   | Town | Residential | 12 | RCP      | Round      | Fair   | Wing Wall  | Concrete   | Good    | None              | Cloudy | No  | Stream         | None     | N/A    | N/A   | 0  |
| 228 | 1757 | OF-355 | DPW | 8/5/2022 12:19   | Town | Residential | 15 | RCP      | Round      | Good   | Head Wall  | Concrete   | Good    | Debris            | Cloudy | No  | Wetlands       | None     | N/A    | N/A   | Someone has dumped a basketball hoop and bicycle in front of outfall |
| 229 | 1759 | OF-357 | DPW | 8/3/2022 18:40   | Town | Residential | 18 | RCP      | Round      | Good   | Flared End | Concrete   | Fair    | Debris            | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 230 | 1760 | OF-358 | DPW | 8/3/2022 18:47   | Town | Residential | 4  | HDPE     | Round      | Good   | Pipe End   | HDPE       | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | Could not find 15" pipe that was supposed to be there but found 4"   |
| 231 | 1761 | OF-359 | DPW | 8/19/2022 13:40  | Town | Residential | 30 | RCP      | Round      | Good   | Flared End | Concrete   | Good    | None              | Clear  | Yes | Wetlands       | Drip     | Cloudy | Brown | Orange and green algae   |
| 232 | 1762 | OF-360 | DPW | 8/19/2022 13:52  | Town | Residential | 18 | RCP      | Round      | Good   | Flared End | Concrete   | Fair    | Minor Blockage    | Clear  | No  | Detention Pond | None     | N/A    | N/A   | 0  |
| 233 | 1763 | OF-361 | DPW | 8/3/2022 18:27   | Town | Residential | 24 | RCP      | Round      | Good   | Wing Wall  | Concrete   | Good    | Debris            | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 234 | 1764 | OF-362 | DPW | 8/3/2022 18:28   | Town | Residential | 24 | RCP      | Round      | Good   | Wing Wall  | Concrete   | Good    | Debris            | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 235 | 1765 | OF-363 | DPW | 8/3/2022 18:26   | Town | Residential | 24 | RCP      | Round      | Good   | Wing Wall  | Concrete   | Good    | Debris            | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 236 | 1766 | OF-364 | DPW | 8/3/2022 18:34   | Town | Residential | 24 | RCP      | Round      | Good   | Wing Wall  | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 237 | 1767 | OF-365 | DPW | 8/3/2022 18:33   | Town | Residential | 24 | RCP      | Round      | Good   | Wing Wall  | Concrete   | Good    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 238 | 1771 | OF-369 | DPW | 8/5/2022 11:48   | Town | Residential | 15 | RCP      | Round      | Fair   | Head Wall  | Stone      | Fair    | None              | Clear  | No  | Stream         | None     | N/A    | N/A   | 0  |
| 239 | 1772 | OF-370 | DPW | 8/5/2022 11:46   | Town | Residential | 12 | RCP      | Round      | Fair   | Head Wall  | Stone      | Fair    | None              | Clear  | No  | Stream         | None     | N/A    | N/A   | 0  |
| 240 | 1773 | OF-371 | DPW | 8/5/2022 11:50   | Town | Residential | 15 | RCP      | Round      | Fair   | Head Wall  | Stone      | Fair    | None              | Clear  | No  | Stream         | None     | N/A    | N/A   | 0  |
| 241 | 1774 | OF-372 | DPW | 8/5/2022 11:53   | Town | Residential | 12 | PVC      |            |        |            |            |         | Buried Structure  |        |     |                |          |        |       | Can not locate, buried   |
| 242 | 1775 | OF-374 | DPW | 9/8/2022 13:14   | Town | Residential | 12 | RCP      | Round      | Fair   | Pipe End   | Concrete   | Fair    | None              | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 243 | 1776 | OF-375 | DPW | 1/26/2006 5:00   | Town | Residential | 24 | Concrete | Elliptical | NULL   | NULL       | Concrete   | Good    | None              | Clear  | No  | Wetlands       | Drip     | Clear  | Clear | 0  |
| 244 | 1777 | OF-376 | DPW | 12/10/2020 21:12 | Town | Residential | 24 | Concrete | Circular   | Fair   | Pipe End   | Concrete   | Fair    | None              | Cloudy | No  | River          | Trickle  | Clear  | Clear | River level up into pipe   |
| 245 | 1778 | OF-377 | DPW | 12/10/2020 21:16 | Town | Residential | 10 | RCP      | Circular   | Fair   | Pipe End   | Concrete   | Fair    | None              | Cloudy | No  | River          | Trickle  | Clear  | Clear | 0  |
| 246 | 1779 | OF-378 | DPW | 12/10/2020 21:04 | Town | Residential | 24 | Concrete | Circular   | Good   | Pipe End   | Concrete   | Good    | Minor Blockage    | Cloudy | No  |                |          |        |       | Possible overflow for brook. Pipe seems to pitch toward cb.          |
| 247 | 1780 | OF-379 | DPW | 12/10/2020 19:29 | Town | Residential | 12 | Concrete | Circular   | Fair   | Head Wall  | Concrete   | Damaged | Damaged           | Clear  | No  | Wetlands       | None     | N/A    | N/A   | 0  |
| 248 | 1783 | OF-383 | DPW | 1/25/2006 17:00  | Town | Residential | 6  | PVC      | Circular   | Good   | Unknown    | Unknown    | Unknown | None              | Cloudy | No  |                |          |        |       | Outfall not visible  |
| 249 | 1784 | OF-384 | DPW | 8/5/2022 17:46   | Town | Residential | 12 |          |            |        |            |            |         | None              |        |     |                |          |        |       | Did not locate   |
| 250 | 1785 | OF-385 | DPW | 12/10/2020 20:46 | Town | Residential | 8  | UNKNOWN  | Circular   | NULL   | NULL       | Unknown    | Unknown | No Access         | Cloudy |     | River          |          |        |       | Inspected catch basin. CB needs to be cleaned. Outfall in culvert    |
| 251 | 1786 | OF-386 | DPW | 12/10/2020 20:38 | Town | Residential | 24 | Concrete | Circular   | Good   | Pipe End   | Concrete   | Good    | None              | Cloudy | No  | Stream         | None     | N/A    | N/A   | 0  |
| 252 | 1787 | OF-388 | DPW | 8/16/2022 16:54  | Town | Residential | 12 | UNKNOWN  | Unknown    |        | Unknown    | Unknown    | Unknown | None              | Clear  |     |                |          |        |       | Under street could not see   |
| 253 | 1791 | OF-392 | DPW | 1/26/2006 5:00   | Town | Residential | 30 | RCP      |            |        |            |            |         |                   |        |     |                |          |        |       |  |

|     |      |         |     |                  |      |             |    |          |          |         |            |            |           |                  |        |     |                |          |       |       |                                   |  |
|-----|------|---------|-----|------------------|------|-------------|----|----------|----------|---------|------------|------------|-----------|------------------|--------|-----|----------------|----------|-------|-------|-----------------------------------|--|
| 267 | 1806 | OF-407  | DPW | 7/1/2022 18:33   | Town | Residential | 12 | PVC      | Round    | Good    | Pipe End   | Other      | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 268 | 1809 | OF-410  | DPW | 1/27/2006 5:00   | Town | Residential | 12 | CAP      | Round    | Good    | Unknown    | Unknown    | Unknown   | None             | Cloudy | No  | Wetlands       | None     | N/A   | N/A   | Pipe outlet buried                |  |
| 269 | 1811 | OF-412  | DPW | 8/4/2022 14:46   | Town | Residential | 12 | RCP      | Round    | Good    | Head Wall  | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 270 | 1812 | OF-413  | DPW | 8/15/2022 18:18  | Town | Residential | 18 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 271 | 1815 | OF-416  | DPW | 8/15/2022 17:57  | Town | Residential | 12 | UNKNOWN  | Unknown  | Unknown | Unknown    | Unknown    | Fenced In | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 272 | 1816 | OF-417  | DPW | 8/15/2022 18:01  | Town | Residential | 12 | UNKNOWN  | Unknown  | Unknown | Head Wall  | Concrete   | Fair      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 273 | 1817 | OF-418  | DPW | 8/19/2022 17:42  | Town | Residential | 30 | RCP      | Round    | Good    | Unknown    | Unknown    | Unknown   | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | Inspection done at street manhole |  |
| 274 | 1818 | OF-419  | DPW | 8/19/2022 17:35  | Town | Residential | 12 | RCP      | Round    | Good    | Unknown    | Unknown    | Good      | None             | Clear  | No  | Unknown        | None     | N/A   | N/A   | Report from basin                 |  |
| 275 | 1820 | OF-421  | DPW | 8/4/2022 14:15   | Town | Residential | 12 | RCP      | Round    | Good    | Pipe End   | Concrete   | Poor      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 276 | 1821 | OF-422  | DPW | 8/4/2022 14:07   | Town | Residential | 12 |          |          |         |            |            |           | None             |        |     |                |          |       |       |                                   | Could not locate due to vegetation                 |
| 277 | 1822 | OF-423  | DPW | 7/29/2022 18:12  | Town | Residential | 12 | RCP      | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 278 | 1823 | OF-424  | DPW | 8/4/2022 14:02   | Town | Residential | 12 | PVC      | Round    |         |            |            |           | None             |        |     |                |          |       |       |                                   | Can not get visual, under the bridge               |
| 279 | 1824 | OF-425  | DPW | 7/1/2022 17:24   | Town | Residential | 10 | RCP      | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 280 | 1825 | OF-426  | DPW | 12/10/2020 22:00 | Town | Residential | 10 | Concrete | Circular | NULL    | NULL       | Concrete   | Concrete  | None             | Clear  | No  | River          | None     | N/A   | N/A   | not connected (abandoned)         |  |
| 281 | 1826 | OF-427  | DPW | 1/27/2006 5:00   | Town | Residential | 12 | CMP      | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Clear  | No  | Stream         | None     | N/A   | N/A   | 0                                 |  |
| 282 | 1827 | OF-428  | DPW | 1/27/2006 5:00   | Town | Residential | 18 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             | Clear  | Yes | Stream         | Moderate | Clear | Clear | 0                                 |  |
| 283 | 1828 | OF-429  | DPW | 7/1/2022 15:29   | Town | Residential | 12 | RCP      | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 284 | 1829 | OF-430  | DPW | 7/1/2022 15:31   | Town | Residential | 12 | RCP      | Round    | Good    | Head Wall  | Concrete   | Good      | None             | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 285 | 1830 | OF-431  | DPW | 7/1/2022 11:35   | Town | Residential | 15 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 286 | 1831 | OF-432  | DPW | 7/1/2022 11:39   | Town | Residential | 12 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | Overgrown                         |  |
| 287 | 1832 | OF-433  | DPW | 7/1/2022 11:24   | Town | Residential | 24 | RCP      | Round    | Good    | Wing Wall  | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 288 | 1833 | OF-434  | DPW | 7/1/2022 11:27   | Town | Residential | 24 | RCP      | Round    | Good    | Wing Wall  | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 289 | 1834 | OF-435  | DPW | 7/1/2022 11:29   | Town | Residential | 24 | RCP      | Round    | Good    | Wing Wall  | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 290 | 1835 | OF-436  | DPW | 8/15/2022 13:31  | Town | Residential | 15 |          |          |         |            |            |           | Fenced In        |        |     |                |          |       |       |                                   | 0  |
| 291 | 1837 | OF-438  | DPW | 2/8/2006 5:00    | Town | Residential | 18 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             |        | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 292 | 1838 | OF-439  | DPW | 8/15/2022 13:51  | Town | Residential | 15 |          |          |         |            |            |           | Fenced In        |        |     |                |          |       |       |                                   | 0  |
| 293 | 1839 | OF-440  | DPW | 7/1/2022 13:33   | Town | Residential | 12 | HDPE     | Round    | Good    | Pipe End   | HDPE       | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 294 | 1840 | OF-441  | DPW | 7/1/2022 13:23   |      | Residential | 8  | PVC      | Round    | Good    | Pipe End   | Other      | Good      | None             | Clear  | No  | Detention Pond | None     | N/A   | N/A   | 0                                 |  |
| 295 | 1841 | OF-442  | DPW | 7/1/2022 13:15   |      | Residential | 4  | GAL      | Round    | Good    | Pipe End   | Other      | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 296 | 1842 | OF-443  | DPW | 8/16/2022 16:31  |      | Residential |    | UNKNOWN  | Unknown  | Unknown | Unknown    | Unknown    |           | Fenced In        |        |     |                |          |       |       |                                   | 0  |
| 297 | 1843 | OF-444  | DPW |                  |      | Residential | 24 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             | Clear  | No  | Wetland        | None     | N/A   | N/A   | 0                                 |  |
| 298 | 1844 | OF-445  | DPW | 7/1/2022 11:55   | Town | Residential | 24 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             | Clear  | No  | Detention Pond | None     | N/A   | N/A   | 0                                 |  |
| 299 | 1845 | OF-446  | DPW | 9/8/2022 16:50   |      | Residential | 15 | PVC      | Round    | Good    | Pipe End   | Other      | Good      | Major Blockage   | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 300 | 1846 | OF-447  | DPW | 7/1/2022 14:32   |      | Residential | 12 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             | Clear  | No  | Detention Pond | None     | N/A   | N/A   | 0                                 |  |
| 301 | 1847 | OF-448  |     |                  |      | Residential |    |          |          |         |            |            |           | None             |        |     |                |          |       |       |                                   | 0  |
| 302 | 1848 | 0       | DPW | 12/10/2020 20:34 | Town | Residential | 12 | RCP      | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Cloudy | No  | Stream         | None     | Clear | Clear | 0                                 |  |
| 303 | 1849 | OF11-1  | DPW | 8/5/2022 16:50   |      |             | 18 |          |          |         |            |            |           | Fenced In        |        |     |                |          |       |       |                                   | 0  |
| 304 | 1850 | OF10-1  | DPW | 12/15/2021 13:07 |      |             | 12 | RCP      | Round    | Good    | Head Wall  | Stone      | Good      | None             | Clear  | Yes | Wetlands       | Moderate | Clear | Clear | 0                                 |  |
| 305 | 1851 | OF14-1  | DPW | 12/2/2021 19:37  | Town | Residential | 12 | CMP      | Round    | Good    | Pipe End   | Corr-Metal | Good      | Debris           | Cloudy | No  | Stream         | None     | N/A   | N/A   | 0                                 |  |
| 306 | 1852 | OF24-5  | DPW | 7/29/2022 15:02  |      |             | 12 | UNKNOWN  | Unknown  | Unknown | Unknown    | Unknown    |           |                  |        |     |                |          |       |       |                                   | Unable to locate at this time, too much vegetation |
| 307 | 1853 | OF33-1  | DPW | 8/19/2022 14:12  |      |             | 20 | HDPE     | Round    | Good    | Pipe End   | HDPE       | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 308 | 1854 | OF35-2  | DPW | 12/15/2021 15:15 | Town |             | 12 | RCP      | Round    | Good    | Head Wall  | Stone      | Good      | None             | Clear  | No  | Pond           | None     | N/A   | N/A   | 0                                 |  |
| 309 | 1855 | OF44-4  | DPW | 8/5/2022 18:18   |      |             | 12 | RCP      | Round    | Good    | Wing Wall  | Concrete   | Good      | None             | Cloudy | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 310 | 1856 | OF44-2  | DPW | 8/19/2022 13:27  |      |             | 12 | RCP      | Round    | Good    | Wing Wall  | Concrete   | Fair      | None             | Clear  | No  | Stream         | None     | N/A   | N/A   | 0                                 |  |
| 311 | 1858 |         | DPW | 8/5/2022 18:06   |      |             | 12 | UNKNOWN  | Unknown  | Unknown | Unknown    | Unknown    | Fair      | None             | Cloudy | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 312 | 1859 | OF55-1  | DPW | 8/5/2022 18:12   |      |             | 12 | UNKNOWN  | Unknown  | Unknown | Unknown    | Unknown    |           | None             | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 313 | 1860 |         | DPW | 7/1/2022 17:32   |      |             | 18 | RCP      | Round    | Good    | Wing Wall  | Concrete   | Good      | None             | Clear  | Yes | Stream         | Trickle  | Clear | Clear | 0                                 |  |
| 314 | 1861 | 5331 67 | DPW | 8/4/2022 13:56   |      |             | 12 | RCP      | Round    | Good    | Wing Wall  | Concrete   | Good      | None             | Clear  | No  | Other          | None     | N/A   | N/A   | 0                                 |  |
| 315 | 1862 | OF67-6  | DPW | 8/19/2022 11:25  |      |             | 12 | RCP      | Round    | Fair    | Head Wall  | Stone      | Fair      | Damaged          | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 316 | 1863 | OF75-1  | DPW | 8/4/2022 13:48   |      |             | 12 | CMP      | Round    | Good    | Pipe End   | Corr-Metal | Good      | None             | Clear  | No  | Lake           | None     | N/A   | N/A   | 0                                 |  |
| 317 | 1864 | OF74-1  | DPW | 8/16/2022 17:57  |      |             | 12 | RCP      | Round    | Broken  | Head Wall  | Concrete   | Poor      | Minor Blockage   | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 318 | 1865 | OF75-2  | DPW | 8/15/2022 18:31  |      |             | 12 | RCP      | Round    | Good    | Head Wall  | Concrete   | Fair      | Damaged          | Clear  | No  | Lake           | None     | N/A   | N/A   | 0                                 |  |
| 319 | 1866 |         | DPW | 8/15/2022 18:10  |      |             | 20 | GAL      | Round    | Good    | Head Wall  | Corr-Metal | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 320 | 1867 | OF74-3  | DPW | 7/11/2022 15:43  | Town | Residential | 24 | Concrete | Round    | Good    | Flared End | Concrete   | Fair      | Minor Blockage   | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 321 | 1868 | OF74-2  | DPW |                  |      |             | 20 | RCP      | Round    | Good    | Head Wall  | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 322 | 1869 |         | DPW | 8/19/2022 17:50  |      |             | 12 | RCP      | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 323 | 1871 |         | DPW | 8/15/2022 17:47  |      |             | 24 | RCP      | Round    | Good    | Head Wall  | Concrete   | Fair      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 324 | 1872 |         | DPW | 8/15/2022 17:29  |      |             | 24 | RCP      | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 325 | 1873 |         | DPW | 8/15/2022 17:31  |      |             | 24 | RCP      | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 326 | 1874 | OF83-1  | DPW | 9/8/2022 14:09   |      |             | 12 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 327 | 1875 |         | DPW | 8/15/2022 17:52  |      |             | 12 | RCP      | Round    | Good    | Head Wall  | Concrete   | Good      | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 328 | 1876 | OF100-1 | DPW | 1/4/2022 18:40   |      |             | 12 | RCP      | Ovalized | Fair    | Flared End | Concrete   | Damaged   | Damaged          | Clear  | No  | Detention Pond | None     | N/A   | N/A   | 0                                 |  |
| 329 | 1877 | OF103-2 | DPW | 8/3/2022 17:36   |      |             | 12 | RCP      | Round    | Good    | Flared End | Concrete   | Good      | Minor Blockage   | Clear  | No  | Wetlands       | None     | Clear | Clear | 0                                 |  |
| 330 | 1878 |         | DPW | 8/3/2022 17:11   |      |             | 12 | RCP      | Round    | Fair    | Pipe End   | Unknown    | Fair      | Buried Structure | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 331 | 1879 | OF104-3 | DPW | 9/8/2022 13:43   |      |             | 12 | RCP      | Round    | Fair    | Pipe End   | Concrete   | Fair      | Minor Blockage   | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 332 | 1880 | OF112-5 | DPW | 8/19/2022 11:56  |      |             | 18 | RCP      | Round    | Good    | Unknown    | Unknown    | Unknown   | None             | Clear  | No  | Wetlands       | None     | N/A   | N/A   | 0                                 |  |
| 333 | 1881 |         | DPW | 7/6/2021 14:03   | Town | Residential | 10 | RCP      | Round    | Good    | Wing Wall  | Concrete   | Good      | None             | Clear  | No  | River          | None     | N/A   | N/A   | 0                                 |  |
| 334 | 1882 |         | DPW | 8/16/2021 15:27  | Town | Commercial  | 10 | RCP      | Round    | Good    | Head Wall  | Concrete   | Good      | None             | Cloudy | No  |                |          |       |       |                                   | Did inspection at street manhole                   |
| 335 | 1883 |         | DPW | 11/30/2021 14:35 |      | Residential | 15 | CAP      | Round    | Good    | Pipe End   | Concrete   | Good      | Debris           | Clear  | Yes | River          | Moderate | Clear | Clear | 0                                 |  |
| 336 | 1884 |         | DPW | 11/30/2021 14:46 | Town | Residential | 15 | CAP      | Round    | Good    | Flared End | Concrete   | Good      | Debris           | Clear  | Yes | Pond           | Trickle  | Clear | Clear | 0                                 |  |
| 337 | 1885 |         | DPW | 11/30/2021 14:58 | Town | Residential | 30 | BITUM    | Round    | Good    | Pipe End   | Concrete   | Good      | Debris           | Clear  | Yes | River          | Moderate | Clear | Clear | 0                                 |  |
| 338 | 1886 |         | DPW | 11/30/2021 15:07 | Town | Residential | 12 | BITUM    | Round    | Good    | Pipe End   | Concrete   | Good      | None             | Clear  | No  | Stream         | None     | N/A   | N/A   | 0                                 |  |
| 339 | 1887 |         | DPW | 11/30/2021 15:16 | Town | Residential | 24 | BITUM    | Round    | Good    | Pipe End   | Concrete   | Good      | Major Blockage   | Clear  | Yes | River          | None     | Clear | Clear | 0                                 |  |
| 340 | 1888 |         | DPW | 11/30/2021 15:36 | Town | Residential | 18 | CAP      | Round    | Good    | Pipe End   | Concrete   | Good      | Debris           | Clear  | No  | Pond           | None     |       |       |                                   | Man made stone wall impeding flow                  |
| 341 | 1889 |         | DPW | 11/30/2021 15:38 | Town | Residential | 10 | CAP      | Round    | Good    | Pipe End   | Concrete   | Good      | Debris           | Clear  | Yes | Pond           | Trickle  | Clear | Clear | 0                                 |  |
| 342 | 1890 |         | DPW | 11/30/2021 15:40 | Town | Residential | 10 | CAP      | Round    | Good    | Pipe End   | Concrete   | Good      | Debris           | Clear  | Yes | Pond           | Trickle  | Clear | Clear | 0                                 |  |
| 343 | 1891 |         | DPW | 11/30/2021 16:13 | Town | Residential | 12 | PVC      | Round    | Good    | Pipe End   | Other      | Good      | Debris           | Clear  | No  | Stream         | None     | N/A   | N/A   | 0                                 |  |
| 344 | 1892 |         | DPW | 11/30/2021 16:24 | Town | Residential | 20 | PVC      | Round    | Good    | Pipe End   | Other      |           |                  |        |     |                |          |       |       |                                   |  |

|     |      |     |                 |                  |    |     |       |      |            |          |      |      |        |    |                |      |     |     |
|-----|------|-----|-----------------|------------------|----|-----|-------|------|------------|----------|------|------|--------|----|----------------|------|-----|-----|
| 356 | 1906 | DPW | 7/12/2022 16:05 | Town Residential | 18 | RCP | Round | Good | Pipe End   | Concrete | Good | None | Clear  | No | Wetlands       | None |     |     |
| 357 | 1907 | DPW | 7/29/2022 16:18 |                  | 36 | RCP | Round | Good | Head Wall  | Concrete | Good | None | Clear  | No | Wetlands       | None | N/A | N/A |
| 358 | 1908 | DPW | 7/29/2022 16:34 |                  | 15 | RCP | Round | Good | Flared End | Concrete | Good | None | Clear  | No | Wetlands       | None | N/A | N/A |
| 359 | 1909 | DPW | 7/29/2022 17:16 |                  | 12 | RCP | Round | Good | Pipe End   | Concrete | Good | None | Clear  | No | Detention Pond | None | N/A | N/A |
| 360 | 1910 | DPW | 7/29/2022 17:17 |                  | 12 | RCP | Round | Good | Pipe End   | Concrete | Good | None | Clear  | No | Detention Pond | None | N/A | N/A |
| 361 | 1911 | DPW | 7/29/2022 18:28 |                  | 15 | RCP | Round | Good | Pipe End   | Concrete | Good | None | Clear  | No | River          | None | N/A | N/A |
| 362 | 1912 | DPW | 7/29/2022 18:29 |                  | 36 | RCP | Round | Good | Pipe End   | Concrete | Good | None | Clear  | No | River          | None | N/A | N/A |
| 363 | 1913 | DPW | 8/5/2022 17:59  |                  | 6  | PVC | Round | Good | Head Wall  | Concrete | Good | None | Cloudy | No | River          | None | N/A | N/A |
| 364 | 1914 | DPW | 8/5/2022 18:01  |                  | 6  | PVC | Round | Good | Head Wall  | Concrete | Good | None | Cloudy | No | River          | None | N/A | N/A |
| 365 | 1915 | DPW | 8/15/2022 13:34 |                  | 15 | RCP | Round | Good | Flared End | Concrete | Good | None | Clear  | No | Wetlands       | None | N/A | N/A |
| 366 | 1916 | DPW | 8/19/2022 15:17 |                  | 12 | CI  | Round | Fair | Head Wall  | Stone    | Fair | None | Clear  | No | River          | None | N/A | N/A |
| 367 | 1917 | DPW | 8/19/2022 15:19 |                  | 4  | CI  | Round | Good | Head Wall  | Stone    | Good | None | Clear  | No | River          | None | N/A | N/A |

Found and added today

Under road  
Under road

outfalls not  
284 discharging

outfalls require  
83 screening