

Year 3 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2020-June 30, 2021

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

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2020 and June 30, 2021 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization:

EPA NPDES Permit Number:

Primary MS4 Program Manager Contact Information

Name:

Title:

Street Address Line 1:

Street Address Line 2:

City:

State:

Zip Code:

Email:

Phone Number:

Stormwater Management Program (SWMP) Information

SWMP Location (web address):

Date SWMP was Last Updated:

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

Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found [here](#):

Impairment(s)			
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input type="checkbox"/> Chloride	<input type="checkbox"/> Nitrogen	<input checked="" type="checkbox"/> Phosphorus
<input checked="" type="checkbox"/> Solids/ Oil/ Grease (Hydrocarbons)/ Metals			
TMDL(s)			
<i>In State:</i>	<input type="checkbox"/> Assabet River Phosphorus	<input checked="" type="checkbox"/> Bacteria and Pathogen	<input type="checkbox"/> Cape Cod Nitrogen
	<input checked="" type="checkbox"/> Charles River Watershed Phosphorus	<input type="checkbox"/> Lake and Pond Phosphorus	
<i>Out of State:</i>	<input type="checkbox"/> Bacteria/Pathogens	<input type="checkbox"/> Metals	<input type="checkbox"/> Nitrogen
			<input type="checkbox"/> Phosphorus
Clear Impairments and TMDLs			

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

Year 3 Requirements

- ☒ Inspected and screened all outfalls/interconnections (excluding Problem and Excluded outfalls)
- ☒ Updated outfall/interconnection priority ranking based on the information collected during the dry weather inspections as necessary
- ☒ Post-construction bylaw, ordinance, or other regulatory mechanism was updated and adopted consistent with permit requirements

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Annual Requirements

- ☒ Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- ☒ Kept records relating to the permit available for 5 years and made available to the public
- ☐ The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
 - ☒ This is not applicable because we do not have sanitary sewer
 - ☐ This is not applicable because we did not find any new SSOs

- ☐ The updated SSO inventory is attached to the email submission
- ☐ The updated SSO inventory can be found at the following website:

- ☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- ☒ Provided training to employees involved in IDDE program within the reporting period
- ☒ All curbed roadways were swept at least once within the reporting period
- ☒ Updated system map due in year 2 as necessary
- ☒ Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- ☒ Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- ☒ Updated inventory of all permittee owned facilities as necessary
- ☒ O&M programs for all permittee owned facilities have been completed and updated as necessary
- ☐ Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- ☒ Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- ☐ Inspected all permittee owned treatment structures (excluding catch basins)

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

The Town has confirmed that there are no Town municipally-owned stormwater treatment structures.

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

Annual Requirements

*Public Education and Outreach**

- ☒ Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- ☒ Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- ☒ Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

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

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

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)Annual Requirements*Public Education and Outreach**

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

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

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

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

Potential structural BMPs

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

- ☐ The BMP information is attached to the email submission
- ☐ The BMP information can be found at the following website:

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

The Town confirmed there are no Town municipally-owned stormwater treatment structures. The Town sweeps all municipal street and parking areas once per year and targets priority watersheds and problem areas for a second sweeping of municipal streets and parking areas as budget allows. No sand is used for winter deicing.

**Solids, Oil and Grease (Hydrocarbons), or Metals**Annual Requirements*Good Housekeeping and Pollution Prevention for Permittee Owned Operations*

- ☒ Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads
- ☒ Prioritized inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Cleaned catch basins more frequently if inspection and maintenance activities indicated excessive sediment or debris loadings

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

The Town sweeps all municipal street and parking areas once per year and targets priority watersheds and problem areas for a second sweeping of municipal streets and parking areas as budget allows. No sand is used

Charles River Watershed Phosphorus TMDL

☒ Completed the funding source assessment

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

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

Part III: Receiving Waters/Impaired Waters/TMDL

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

☒ Yes

☐ No

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

The list of receiving waters and relevant impairments have changed from the NOI based on the Final 2016 Integrated List. Mill River (MA51-35 and MA51-36) is now impaired for metals, and Muddy Brook (MA51-40) is now impaired for E. coli. Therefore, discharges to Mill River are now subject to Appendix H Part V and discharges to Muddy Brook are now subject to Appendix H Part III."

Part IV: Minimum Control Measures

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

MCM1: Public Education

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

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

BMP:/Multimedia Methods for Residents/

Message Description and Distribution Method:

The Town of Mendon maintains a storm water web page with educational information for residents. Educational topics include the proper use of slow-release fertilizers, pet waste management, leaf litter management, and proper care of septic systems. These material were used to meet the requirements per Appendix H for discharge to waters impaired for phosphorus and discharges to waters impaired for bacteria and nitrogen.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

The Town posted an electronic survey online to determine a baseline for measuring the effectiveness of public education and outreach efforts. The survey will be distributed again during the permit term to determine if public education and outreach efforts have made an impact on behavior. The educational information is available to all visitors to the Town website. The website was visited 150 times.

Message Date(s):

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

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

If yes, describe why the change was made:

BMP:/Multimedia Methods for Businesses/

Message Description and Distribution Method:

The Town of Mendon maintains a storm water web page with education information for businesses on topics such as managing grease, waste, cleaning up spills, preventing pollution, and winter deicing.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

The Town posted an electronic survey online to determine a baseline for measuring the effectiveness of public education and outreach efforts. The survey will be distributed again during the permit term to determine if public education and outreach efforts have made an impact on behavior. The educational information is

Message Date(s): *The survey will be available on the Town website again in Permit Year 5.*

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

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

If yes, describe why the change was made:

BMP:/Multimedia Methods for Construction Developers/

Message Description and Distribution Method:

The Town of Mendon maintains a storm water web page with educational information for construction developers on erosion and sediment control and BMP maintenance.

Targeted Audience: *Developers (construction)*

Responsible Department/Parties: *Highway Department*

Measurable Goal(s):

he Town posted an electronic survey online to determine a baseline for measuring the effectiveness of public education and outreach efforts. The survey will be distributed again during the permit term to determine if public education and outreach efforts have made an impact on behavior. The educational information is available to all visitors to the Town website. The website was visited 150 times.

+

Message Date(s): *The survey will be available on the Town website again in Permit Year 5.*

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

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

If yes, describe why the change was made:

BMP:/Multimedia Methods for Industrial Facilities/

Message Description and Distribution Method:

The Town of Mendon has very few industrial facilities. However, the Town maintains a storm water web page with educational information for automotive facilities on practicing good housekeeping and pollution prevention.

+

Targeted Audience: *Industrial facilities*

Responsible Department/Parties: *Highway Department*

Measurable Goal(s):

The Town posted an electronic survey online to determine a baseline for measuring the effectiveness of public education and outreach efforts. The survey will be distributed again during the permit term to determine if public education and outreach efforts have made an impact on behavior. The educational information is

Message Date(s): *The survey will be available on the Town website again in Permit Year 5.*

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

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

If yes, describe why the change was made:

Add an Educational Message

MCM2: Public Participation

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

Stormwater Task Force met in September 2020 and reviewed the SWMP status and reporting metrics. No changes were suggested.

Mendon's Year 3 Stormwater Management Program was presented to the Planning Board at a public meeting in July 13, 2020.

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

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

Household Hazardous Waste Day was held on August 14th, 2020

<http://www.mendonma.gov/board-of-health/news/2020-hazardous-waste-and-document-shred-day>

Mendon's annual clean-up was held during the weeks of April 24 - May 2, 2021. Sixty individuals or families signed up to participate.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

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

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

Number of SSOs identified:

Number of SSOs removed:

MS4 System Mapping

Optional: Provide additional status information regarding your map:

Mendon's Stormwater System mapping is complete. Key Junction Manholes were added in Permit Year 3.

Screening of Outfalls/Interconnections

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

- ☐ No outfalls were inspected
- ☐ The outfall screening data is attached to the email submission
- ☒ The outfall screening data can be found at the following website:

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

Number of outfalls screened:

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

Percent of outfalls screened:

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

Mendon has mapped all known MS4 infrastructure required to be mapped per Part 2.3.4.5.a (Phase 1). The Town has confirmed there are no municipally-owned storm water treatment structures.

Catchment Investigations

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

- ☐ No catchment investigations were conducted
- ☐ The catchment investigation data is attached to the email submission
- ☐ The catchment investigation data can be found at the following website:

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

Number of catchment investigations completed this reporting period:

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

Percent of total catchments investigated: 0

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

No problem outfalls are identified. No catchment investigations were completed other than the dry weather outfall screening. Key junction manhole inspections for high priority catchments were completed in Permit Year 3, and the key junction manhole report is attached.

IDDE Progress

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

- ☒ No illicit discharges were found
- ☐ The illicit discharge removal report is attached to the email submission
- ☐ The illicit discharge removal report can be found at the following website:

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

Number of illicit discharges identified: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 gallons/day

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

Total number of illicit discharges identified: 0

Total number of illicit discharges removed: 0

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

The Board of Health and Highway Department confirmed there were no identified illicit discharges since the effective date of the permit.

Employee Training

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

Virtual IDDE Training was provided for all Highway Department Personnel in 2021. Annual in-person training for the Highway Department SPCC and SWPPP was conducted on June 17, 2021.

MCM4: Construction Site Stormwater Runoff Control

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

Number of site plan reviews completed:

Number of inspections completed:

Number of enforcement actions taken:

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

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

As-built Drawings

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

Number of as-built drawings received:

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

Mendon already requires the submission of as-built drawings and long term operation and maintenance for completed construction sites through the Mendon Stormwater Management General Bylaw , Chapter XXVI.

Street Design and Parking Lots Report

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

Not started yet.

Green Infrastructure Report

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

Not started yet.

Retrofit Properties Inventory

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

Not started yet.

MCM6: Good Housekeeping**Catch Basin Cleaning**

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

Number of catch basins inspected:

Number of catch basins cleaned:

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

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

Total number of catch basins:

If applicable:

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

Street Sweeping

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

☒ Number of miles cleaned:

☐ Volume of material removed:

☐ Weight of material removed:

Stormwater Pollution Prevention Plan (SWPPP)

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

Number of site inspections completed:

Additional Information

Monitoring or Study Results

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

- ☒ Not applicable
- ☐ The results from additional reports or studies are attached to the email submission
- ☐ The results from additional reports or studies can be found at the following website(s):

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

Additional Information

Optional: Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:

COVID-19 Impacts

Optional: If any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)

Provide any additional details on activities planned for permit year 4 below:

The Town acknowledges the General Permit Year 4 requirements and will complete as many activities as possible based on funding and staff availability.

Part V: Certification of Small MS4 Annual Report 2021**40 CFR 144.32(d) Certification**

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

Name:

Mark Reil

Title:

Chairman, Board of Selectmen

Signature:



Date:

9/28/21

[Signatory may be a duly authorized representative]

Mendon Catchment Investigations, Key Junction Manholes Field Effort Summary – Spring 2021

TO: Alan Tetreault, Highway Surveyor, Town of Mendon

COPY: Thomas Mahanna, Tighe & Bond

FROM: Gabrielle Belfit, Tighe & Bond
Sam Downes, Tighe & Bond

DATE: June 30, 2021

Per *Section 2.3.4.8.c.ii.1. Requirements for each catchment investigation associated with an outfall/interconnection* of the 2016 Small Municipal Separate Storm Sewer Systems (MS4) General Permit, **“For all catchments...during dry weather, key junction manholes shall be opened and inspected systematically for visual and olfactory evidence of illicit connections (e.g., excrement, toilet paper, gray filamentous bacterial growth, or sanitary products present), If flow is observed, the permittee shall sample the flow at a minimum for ammonia, chlorine and surfactants and can use field kits for these analyses... where sampling results or visual or olfactory evidence indicate potential illicit discharges or SSO’s, the area draining to the junction manhole shall be flagged for further upstream investigation. If no evidence of an illicit discharge is found, catchment investigation will be considered complete upon completing of key junction manhole sampling.”**

This memorandum presents a summary of Tighe & Bond’s investigation during the spring 2021, for twenty-two (22) catchment areas for high priority outfalls previously identified in Permit Year 2. This investigation looked at the key junction manholes (KJM)s or catch basins with multiple inlets and outlets within the high priority catchment areas, evaluated conditions, made visual and olfactory observations and took water quality samples where dry weather flow was present. For this memo, the abbreviation KJM is used to refer to both key junction manholes and catch basis with multiple inlets/outlets. Tighe & Bond and Mendon staff investigated all 22 KJMs and sampled at 10 locations where dry weather flow¹ was present. **None of the KJMs investigated met EPA’s criteria for potential illicit connections.**

1. Background

1.1 Spring 2021 Field Work Background

Tighe & Bond completed preliminary catchment investigations on April 20, 2021, including inspection and inventory² data and sampling at key junction manholes if dry weather flow was present. The *Dry Weather Sampling Procedure* was followed for each KJM investigation. Please see Section 2 of this memorandum for results from the field effort.

¹ **Dry Weather Flow:** This term refers to when there is flow present at an outfall/ interconnection or key junction manhole and there has been less than 0.10 inches of rainfall in the previous 24 hours and no significant snow melt is occurring.

² **Inventory/Inventoried:** This term refers to the General Permit requirement in *Section 2.3.4.8.c.ii.* to visually inspect each key junction manhole during dry weather conditions and collect prescribed data such as location, condition, and visual and olfactory evidence of an illicit discharge.

The map in Attachment 1 shows the locations of the Town's high priority catchment investigations and the KJMs that were investigated and the associated outfalls.

Results of the KJM condition, olfactory and visual KJM observations, water quality screening and laboratory results can be found attached to this memorandum in Attachment 2.

2. Dry Weather Flow Sampling Results

Section 2 of this memorandum presents the results of the KJM investigations and dry weather flow sampling. Sampling was completed if flow was still present at KJM locations after a period of dry weather (rainfall less than 0.10-inches in the last 24-hours). The **10** catchments with dry weather flow are listed in the table below:

Table 1: KJM Where Dry Weather Sampling was Completed (Spring 2021)

KJM ID	Location	Illicit Connection	Date
MH17	Manhole	None	4/20/2021
MH32	Manhole	None	4/20/2021
MH5	Manhole	None	4/20/2021
MH38	Manhole	None	4/20/2021
MH35	Manhole	None	4/20/2021
MH25	Manhole	None	4/20/2021
MH20	Manhole	None	4/20/2021
CB6	Catch Basin	None	4/20/2021
MH1	Manhole	None	4/20/2021
MH42	Manhole	None	4/20/2021

Sampling results are included in the KJM Sampling Results Summary in Attachment 3. Samples were screened using field test kits for chlorine and ammonia, and laboratory analysis for the impairments of the receiving water body. The field test kit for surfactants was not used as results were unsatisfactory. Sampling for receiving water impairments at KJMs exceeds the permit requirements and the results for water quality impairments were considered to be more conclusive for IDDE discharges. The Summary in Attachment 3 has a color-coded ranking system for the results of the outfall monitoring, which demonstrates the severity of the sampling results (i.e., a red result denotes a higher, potentially problematic concentration of a stormwater pollutant). The ranking system uses known EPA benchmarks for each pollutant analyzed. This system was used to clearly understand the water quality at each outfall and will be used to determine the follow-up outfall prioritization required by *Section 2.3.4.8.c.ii.1.c)* of the General Permit. Samples were sent to Alpha Analytical Laboratories of Westborough, Massachusetts and laboratory data is available in Attachment 3.

None of the samples collected during the spring 2021 field effort indicate potential IDDE inputs.

Several of the KJM sampled met the EPA benchmarks for chlorine and total phosphorus at very low levels. None of the samples exceeded EPA benchmarks for E.coli, ammonia, salinity or conductivity.

Half of the sampled KJMs had chlorine levels greater than the EPA benchmark of 0.02 mg/L, which may indicate potable water source inputs. Sources of the chlorine may include water main leaks or breaks, hydrant flushing, or chlorinated pool water discharges to the storm drain. Three samples had low levels of total phosphorous and likely sources include organic debris or fertilizer. However, none of these catchments met the criteria for likely sewage input

as levels of ammonia, conductivity, and E. coli were non-detect or below the reporting limit for each of these KJMs.

2.1 Outfalls Requiring Maintenance

Five of the KJMs visited during Tighe & Bond's field effort were partially or completely full of sediment, leaves, or debris (See Table 2). Tighe & Bond recommends that the KJM are maintained on a regular basis for proper function of the drainage system. These KJMs should be evaluated by Town staff and cleaned or repaired, as necessary.

Table 2: KJMs Requiring Maintenance (Spring 2021)

KJM ID	Street	Reason
MH42	E. Hartford Ave	Blocked pipe
MH41	Sandra Circle	Debris in manhole
CB5	Taft Avenue	Debris at outfall
MH5	Hartford Ave East	Blocked pipe
MH35	Edward Road	Blocked Pipe

3. Conclusions & Recommendations

Tighe & Bond and Mendon Highway Department staff successfully investigated and dry weather screened the KJMs at all of Mendon's high priority catchment areas to satisfy the General Permit requirements. This preliminary KJM inspection partially completes the requirements of General Permit *Section 2.3.4.8 Catchment Investigation*. The results of this sampling effort indicated that none of the high priority catchment **KJMs had any evidence of a direct or indirect sanitary wastewater connection and for the purpose of the permit the high priority catchment investigation can be considered complete**. This memorandum will be appended to the Town's written IDDE Plan.

3.1 Recommendations

The following are recommendations for the Town, which can be completed by the Town or a Contractor in subsequent Permit Years:

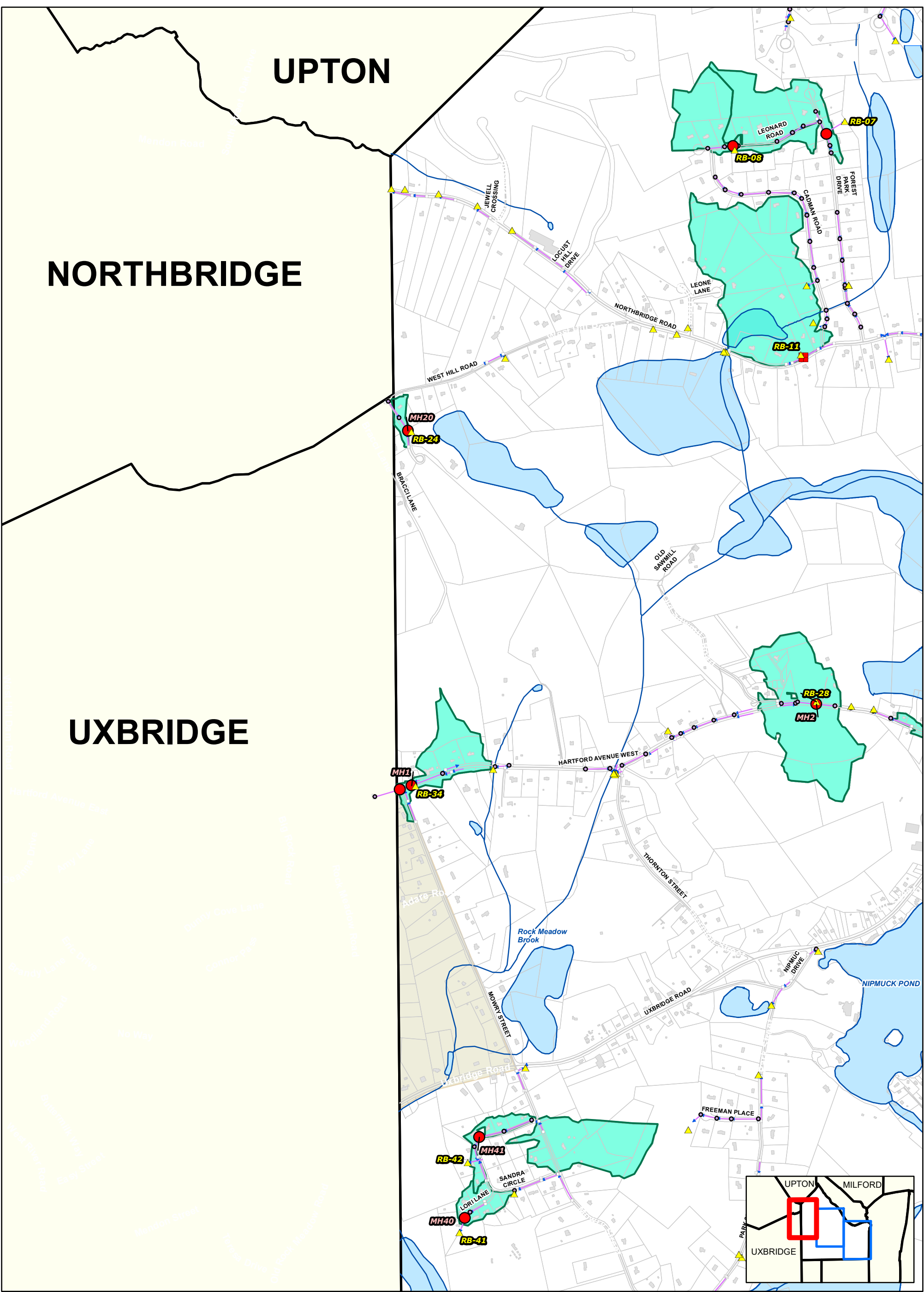
- **Complete KJM investigation for low priority catchments.** This investigation needs to be completed within ten (10) years of the permit effective date.
- **Implement an outfall operation and maintenance (O&M) plan.** The Town should continue to implement KJM O&M as described in the Town's O&M Plan.

Attachments

Attachment 1: KJM Screening Status Map

Attachment 2: KJM Inspection Data

Attachment 3: KJM Sampling Results Summary/Lab Results



LEGEND

- ▲ Outfall
- Manhole
- Investigated Key Junction Manhole
- Catch Basin
- Investigated Key Junction Catch Basin
- Drain Line

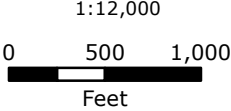
- Road
- Stream, Brook
- ▭ Town Boundary
- ▭ Structures
- ▭ Approximate Parcel Boundary

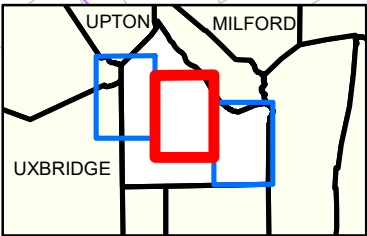
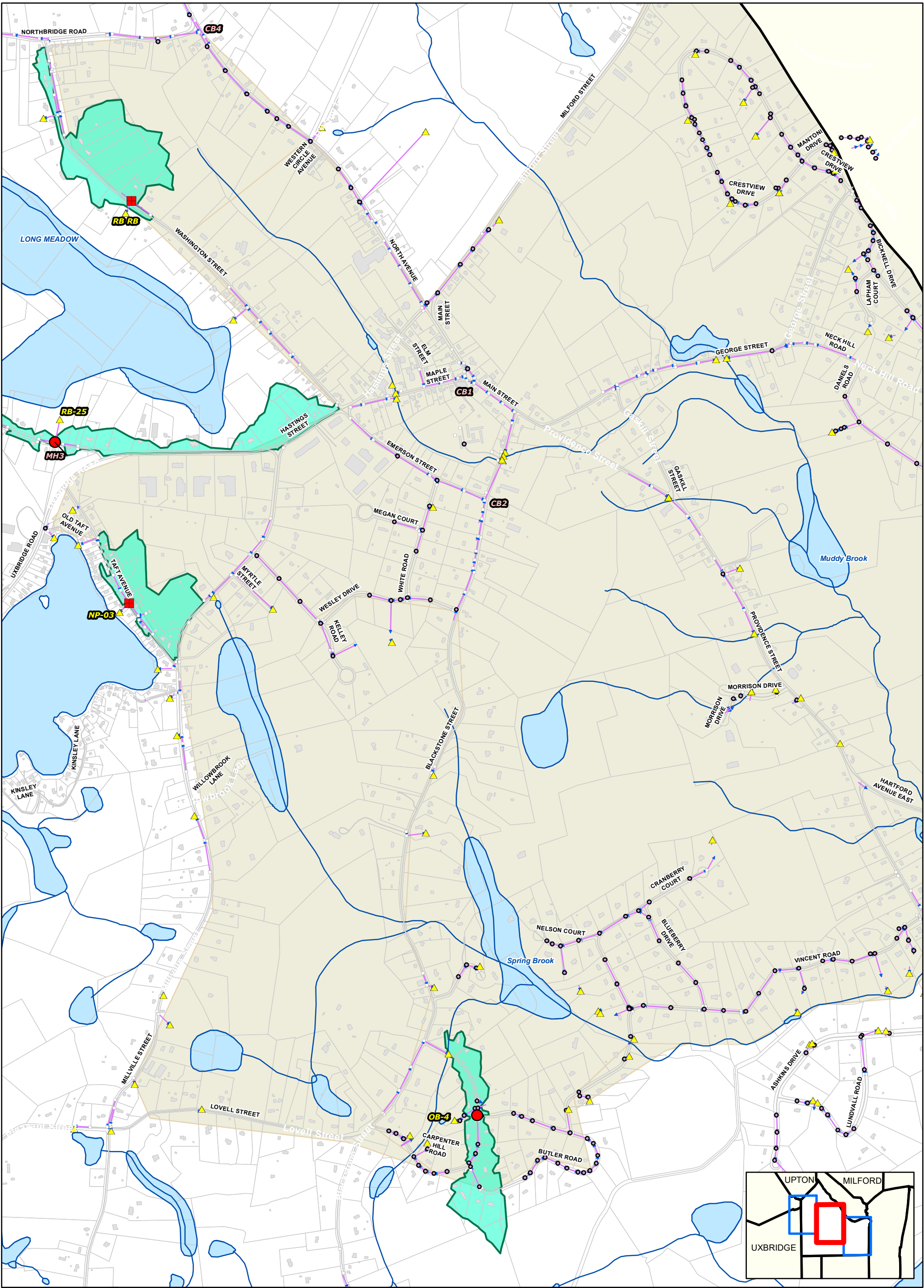
- Investigated Catchments
- Public Surface Water Supply (PSWS)
- Waterbody
- MS4 Regulated Area (2010 and 2000 Census)

INVESTIGATED CATCHMENTS
MENDON, MASSACHUSETTS

Page 1 of 3
Mendon, Massachusetts

June 2021

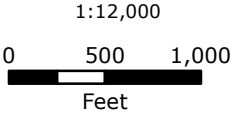




- LEGEND**

 - ▲ Outfall
 - Manhole
 - Investigated Key Junction Manhole
 - Catch Basin
 - Investigated Key Junction Catch Basin
 - Drain Line
- Road
 - Stream, Brook
 - ▭ Town Boundary
 - ▭ Structures
 - ▭ Approximate Parcel Boundary
- Investigated Catchments
 - Public Surface Water Supply (PSWS)
 - Waterbody
 - MS4 Regulated Area (2010 and 2000 Census)

Notes: Stormwater Data from the town of Mendon. MS4 Regulated Area (2010 and 2000) from the EPA. Parcels from the town of Mendon (FY2018). Towns, Roads and Waterbodies based on MassGIS.

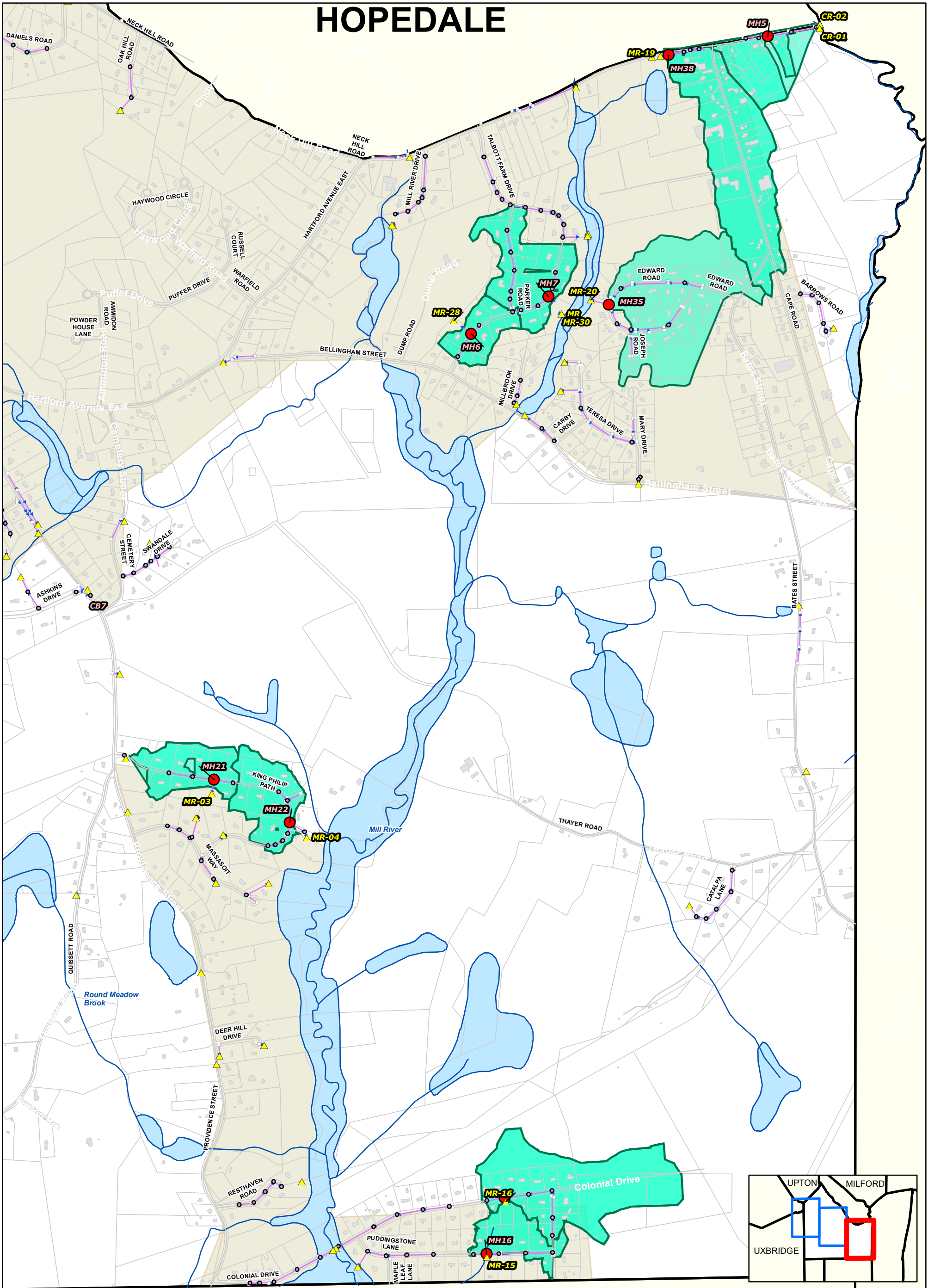


**INVESTIGATED CATCHMENTS
MENDON, MASSACHUSETTS**

Page 2 of 3
Mendon, Massachusetts

June 2021

HOPEDALE



KJM Inspection Data for Catchments with High Priority Outfalls - Mendon, MA

KJM ID	Outfall ID	Manhole Location	Receiving Water Body	Temperature (F)	Rainfall (In) Last 24 Hours	Maintenance Needs	Inverts Submerged ?	Flow Present?
MH5	CR-01	Hartford Ave East	Charles River	65	0	Pipe blocked	No	Yes
MH16	MR-15	Pudding Stone Lane	Mill River	65	0		No	No
MH21	MR-03	King Phillip	Mill River	65	0		No	No
MH22	MR	King Phillip	Mill River	65	0		No	No
MH32	MR-16	Colonial Drive	Mill River	65	0		No	Yes
MH35	MR-20	Edward Road	Mill River	65	0	Pipe blocked	No	Yes
MH38	MR-19	Hartford Ave East	Mill River	65	0		No	Yes
MH6	MR-28	Talbott Farm Dr	Mill River	65	0		No	No
MH7	MR-30	Talbott Farm Dr	Mill River	65	0		No	No
CB5	NP-03	Taft Avenue	Nipmuck Pond	60	0	Debris at outfall	No	No
MH17	OB-4	Carpenter Hill Rd	Ohio Brook	65	0		No	Yes
CB3	RB-11	Northbridge Road	Rock Meadow Brook	60	0		No	No
CB6	RB-02	Washington Street	Rock Meadow Brook	60	0		No	Yes
MH1	RB-34	E. Hartford West	Rock Meadow Brook	60	0		No	Yes
MH2	RB-28	E. Hartford West	Rock Meadow Brook	60	0		No	No
MH20	RB-34	Stymast Drive	Rock Meadow Brook	60	0		No	Yes
MH24	RB-07	Forest Park	Rock Meadow Brook	55	0		No	No
MH25	RB-08	Leanord Road	Rock Meadow Brook	55	0		No	Yes
MH3	RB-25	E. Hartford West	Rock Meadow Brook	60	0		No	No
MH40	RB-41	Lori Lane	Rock Meadow Brook	65	0		No	No
MH41	RB-42	Sandra Circle	Rock Meadow Brook	60	0	Dig out MH	No	No
MH42	RB-35	E. Hartford West	Rock Meadow Brook	60	0	Pipe blocked	No	Yes

KJM Inspection Data for Catchments with High Priority Outfalls - Mendon, MA

KJM ID	Outfall ID	Flow Description	Flow Source	Surfactants (>0.25 mg/L) Result	Ammonia (NH3)(>0.5 mg/L) Result	Chlorine (>0.02 mg/L) Result	Odor	Floatables (Does Not Include Trash)	Notes
MH5	CR-01	Trickle		Not measured	0	0	No	No	
MH16	MR-15						No	No	Only flow is from
MH21	MR-03						No	No	
MH22	MR						No	No	
MH32	MR-16	Moderate	Eastern pipe	Not measured	0	0.08	No	No	
MH35	MR-20	Substantial	Both inlets	Not measured	0	0	No	No	
MH38	MR-19	Moderate	Both inlets	Not measured	0	0.04	No	No	
MH6	MR-28						No	No	
MH7	MR-30						No	No	
CB5	NP-03						No	No	Stagnant water in CB
MH17	OB-4	Moderate	Carpenter Hill	Not measured	0	0.04	No	No	Outfall pipe deteriorated
CB3	RB-11						No	No	
CB6	RB-02	Moderate	Both inlet pipes	Not measured	0	0	No	No	DO 9.05 mg/L
MH1	RB-34	Substantial	All inlets	Not measured	0	0.08	No	No	DO 7.67 mg/L
MH2	RB-28						No	No	Flow from culvert only
MH20	RB-34	Trickle	All 4 inlets	Not measured	0	0.05	No	No	DO 10.04 mg/L
MH24	RB-07						No	No	
MH25	RB-08	Moderate	From dead end road	Not measured	0	0	No	No	DO 10.6 mg/L
MH3	RB-25						No	No	Standing water
MH40	RB-41						No	No	Screened upstream
MH41	RB-42						No	No	Standing water
MH42	RB-35	Moderate	All inlets	Not measured	0	0	No	No	DO 9.8 mg/L

KJM Sampling Results Summary - Mendon, MA

Location				Laboratory Analysis ⁽¹⁾		Water Quality Meter/Test Kit ⁽¹⁾					
Date	Key Junction Manhole ID	Street	Sample Location	E. coli	Total Phosphorus	Surfactants	Temperature	Salinity	Conductivity	Chlorine	Ammonia
				CFU/100mL	mg/L	mg/L	°F	ppt	µS/cm ⁽²⁾	mg/L	mg/L
4/20/2021	MH17	Carpenter Hill Road	Manhole	3.0	-	Not measured	66.0	0.10	442	0.04	0.00
4/20/2021	MH32	Colonial Drive	Manhole	ND	-	Not measured	65.0	0.20	380	0.08	0.00
4/20/2021	MH5	Hartford Ave E.	Manhole	7.0	-	Not measured	67.0	0.20	511	0.00	0.00
4/20/2021	MH38	Hartford Ave E.	Manhole	5.0	-	Not measured	65.0	0.20	500	0.04	0.00
4/20/2021	MH35	Edward Road	Manhole	ND	-	Not measured	60.0	0.30	255	0.00	0.00
4/20/2021	MH25	Leanord Road	Manhole	-	ND	Not measured	62.0	0.40	494	0.00	0.00
4/20/2021	MH20	Stymast Drive	Manhole	-	0.045	Not measured	58.0	0.10	610	0.05	0.00
4/20/2021	CB6	Washington Street	Catch Basin	-	0.013	Not measured	65.0	0.20	643	0.00	0.00
4/20/2021	MH1	E. Hartford West	Manhole	-	0.053	Not measured	66.0	0.20	307	0.08	0.00
4/20/2021	MH42	E. Hartford West	Manhole	-	0.112	Not measured	63.0	0.10	425	0.00	0.00

REPORTING LIMITS

Ammonia = 0.10 mg/L
 Surfactants = 0.030 mg/L
 E. coli = 1 CFU/100mL
 Enterococcus = 2 CFU/100mL
 Fecal Coliform = 1 CFU/100mL
 Total Phosphorus = 0.01 mg/L
 "ND" = none detected

COLOR KEY (benchmarks are bold)								
	E. coli	Total Phosphorus	Surfactants	Temperature	Salinity	Conductivity	Chlorine	Ammonia
	CFU/100 mL	mg/L	mg/L	°F	ppt	µS/cm	mg/L	mg/L
	≥ 10,000	≥ 0.908			≥ 1.00	≥ 2,000	≥ 1.00	≥ 6.0
	≥ 1,260	≥ 0.466			≥ 0.75	≥ 1,500	≥ 0.30	≥ 1.0
	≥ 235	≥ 0.024	≥ 0.25	≥ 83.0	≥ 0.50	≥ 1,000	≥ 0.02	≥ 0.5
	< 235	< 0.024	< 0.25	< 83	< 0.50	< 1,000	< 0.02	< 0.5

Notes for Results Summary:

- (1) "-" means no analysis was completed
 (2) µS/cm is equivalent to µmhos/cm

Benchmark Sources:

Ammonia, Surfactants, and Chlorine - *EPA General Permit for Stormwater Discharges from Small MS4 in Massachusetts*
 E. coli, Enterococcus, and Temperature - *314 CMR 4.00: Massachusetts Surface Water Quality Standards*
 Total Nitrogen - *EPA Ambient Water Quality Criteria Recommendations for Rivers and Streams in Nutrient Ecoregion XIV*
 Salinity - *EPA Volunteer Estuary Monitoring: A Methods Manual*
 Conductivity - *Center for Watershed Protection Illicit discharge Detection and Elimination Guidance Manual*

EMPLOYEE TRAINING SIGN-IN SHEET



Training Date: June 17 - 2021	
Title of Training: IDDE Program Refresher	
Training Topics: MS4 Program overview; definition of MS4, outfall, interconnection; and identifying and reporting illicit discharges to the drainage system.	
Training Duration (minutes): 30 minutes (15 min presentation and 15 min review materials)	
Contact Info for Questions: <div style="text-align: center;"> Alan Tetreault Highway Surveyor atetreault@mendonma.gov (508) 473.6558 </div>	
Employee(s) Trained: (Name and Title)	Signature:
Paul MARVELLE MECHANIC	Paul Marvelle
Michael Cournoyer	Michael Cournoyer
Jonathan Dotly	Jonathan Dotly
Peter Chavrin	Peter Chavrin
ALAN D. Tetreault	Alan D. Tetreault
DARLENE CORDIER	Darlene Cordier

ROUTINE VISUAL INSPECTION LOG - Mendon Highway Department

Date of Inspection: 3-4-20 Time of Inspection: 10:00

Name of Inspector (s): Alan Tetreault

Signature of Inspector (s): Alan Tetreault

Inspection Period (Check One)

☒ 1st Quarter (January through March)

☐ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: rain

Any discharges occurring at time of inspection: ☐ yes ☒ no

If yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ yes ☒ no

If yes explain: _____

Any control measures needing maintenance or repairs: ☐ yes ☒ no

If yes explain: _____

Any failed control measures that need replacement: ☐ yes ☒ no

If yes explain: _____

Any incidents of noncompliance observed: ☐ yes ☒ no

If yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ yes ☒ no

If yes explain: _____

Scrap Metal Dumpster

- Waste, debris, on ground
- Dumpster in good condition
- General Cleanliness
- Comments

Y / ☒ N
☒ Y / N
GOOD / BAD

Fueling Station

- Spots, pools or other traces of diesel fuel on the ground
- Waste, debris, on ground
- General Cleanliness
- Comments

Y / ☒ N
Y / ☒ N
☒ GOOD / BAD

needs to be repainted

Sand Storage Shed

- Large quantity of sand on the ground
- General cleanliness of areas
- Comments

Y / ☒ N
☒ GOOD / BAD

Property Walkthrough

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

drainage Swale needs to be cleaned

Other Area – Define:

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

Additional Comments:

ROUTINE VISUAL INSPECTION LOG - Mendon Highway Department

Date of Inspection: 6-4-20 Time of Inspection: 12:00
Name of Inspector (s): Alan Tetreault
Signature of Inspector (s): Alan Tetreault

Inspection Period (Check One)

- ☐ 1st Quarter (January through March) ☒ 2nd Quarter (April through June)
☐ 3rd Quarter (July through September) ☐ 4th Quarter (October through December)

Weather conditions during inspection: cloudy

Any discharges occurring at time of inspection: ☐ yes ☒ no

If yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ yes ☒ no

If yes explain: _____

Any control measures needing maintenance or repairs: ☐ yes ☒ no

If yes explain: _____

Any failed control measures that need replacement: ☐ yes ☒ no

If yes explain: _____

Any incidents of noncompliance observed: ☐ yes ☒ no

If yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ yes ☒ no

If yes explain: _____

Scrap Metal Dumpster

- Waste, debris, on ground
- Dumpster in good condition
- General Cleanliness
- Comments

Y / ☒ N
☒ / N
GOOD / BAD

Electronic S Shed looks good

Fueling Station

- Spots, pools or other traces of diesel fuel on the ground
- Waste, debris, on ground
- General Cleanliness
- Comments

Y / ☒ N
Y / ☒ N
GOOD / BAD

Sand Storage Shed

- Large quantity of sand on the ground
- General cleanliness of areas
- Comments

Y / ☒ N
GOOD / BAD

Universal waste shed all containers closed
Salt shed clean + closed

Property Walkthrough

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

drainage Swale cleaned

Other Area - Define:

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

needs wash out next Metal Recycle area
to be fixed

Additional Comments:

ROUTINE VISUAL INSPECTION LOG - Mendon Highway Department

Date of Inspection: 9-17-20 Time of Inspection: 9:00
Name of Inspector (s): Alan Tetreault
Signature of Inspector (s): Alan Tetreault

Inspection Period (Check One)

- ☐ 1st Quarter (January through March) ☐ 2nd Quarter (April through June)
☒ 3rd Quarter (July through September) ☐ 4th Quarter (October through December)

Weather conditions during inspection: FAIR

Any discharges occurring at time of inspection: ☐ yes ☒ no

If yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ yes ☒ no

If yes explain: _____

Any control measures needing maintenance or repairs: ☐ yes ☒ no

If yes explain: _____

Any failed control measures that need replacement: ☐ yes ☒ no

If yes explain: _____

Any incidents of noncompliance observed: ☐ yes ☒ no

If yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ yes ☒ no

If yes explain: _____

Scrap Metal Dumpster

- Waste, debris, on ground
- Dumpster in good condition
- General Cleanliness
- Comments

Y / ☒ N
☒ GOOD / BAD

Fueling Station

- Spots, pools or other traces of diesel fuel on the ground
- Waste, debris, on ground
- General Cleanliness
- Comments

Y / ☒ N
Y / ☒ N
☒ GOOD / BAD

Sand Storage Shed

- Large quantity of sand on the ground
- General cleanliness of areas
- Comments

Y / ☒ N
☒ GOOD / BAD

Salt Shed Good closed
univer Sal waste Shed all containers closed

Property Walkthrough

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

Other Area - Define:

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

All looks Good

Additional Comments:

ROUTINE VISUAL INSPECTION LOG - Mendon Highway Department

Date of Inspection: 12-1-20 Time of Inspection: 8:00

Name of Inspector (s): Alan Tetraolt

Signature of Inspector (s): Alan Tetraolt

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☐ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☒ 4th Quarter (October through December)

Weather conditions during inspection: Sunny

Any discharges occurring at time of inspection: ☐ yes ☒ no

If yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ yes ☒ no

If yes explain: _____

Any control measures needing maintenance or repairs: ☐ yes ☒ no

If yes explain: _____

Any failed control measures that need replacement: ☐ yes ☒ no

If yes explain: _____

Any incidents of noncompliance observed: ☐ yes ☒ no

If yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ yes ☒ no

If yes explain: _____

Scrap Metal Dumpster

- Waste, debris, on ground
- Dumpster in good condition
- General Cleanliness
- Comments

Y / ☒ N
☒ / N
GOOD / BAD

Fueling Station

- Spots, pools or other traces of diesel fuel on the ground
- Waste, debris, on ground
- General Cleanliness
- Comments

Y / ☒ N
Y / ☒ N
GOOD / BAD

Sand Storage Shed

- Large quantity of sand on the ground
- General cleanliness of areas
- Comments

Y / ☒ N
GOOD / BAD

Salt Shed being filled for winter
universal waste shed all containers closed

Property Walkthrough

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

Other Area – Define:

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

Additional Comments:

ROUTINE VISUAL INSPECTION LOG - Mendon Highway Department

Date of Inspection: 3-12-21 Time of Inspection: 9:30

Name of Inspector (s): Alan Tetrao

Signature of Inspector (s): Alan Tetrao

Inspection Period (Check One)

☒ 1st Quarter (January through March)

☐ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Rain

Any discharges occurring at time of inspection: ☐ yes ☒ no

If yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ yes ☒ no

If yes explain: _____

Any control measures needing maintenance or repairs: ☐ yes ☒ no

If yes explain: _____

Any failed control measures that need replacement: ☐ yes ☒ no

If yes explain: _____

Any incidents of noncompliance observed: ☐ yes ☒ no

If yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ yes ☒ no

If yes explain: _____

Scrap Metal Dumpster

- Waste, debris, on ground
- Dumpster in good condition
- General Cleanliness
- Comments

Y / ☒ N
☒ / N
GOOD / BAD

Fueling Station

- Spots, pools or other traces of diesel fuel on the ground
- Waste, debris, on ground
- General Cleanliness
- Comments

Y / ☒ N
Y / ☒ N
GOOD / BAD

Sand Storage Shed

- Large quantity of sand on the ground
- General cleanliness of areas
- Comments

Y / ☒ N
GOOD / BAD

Sand shed being cleaned up ground
universal waste shed all containers closed

Property Walkthrough

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

Other Area - Define:

- Any signs of spill or leaks
- Any erosion problems
- Any housekeeping problems
- Comments

Y / ☒ N
Y / ☒ N
Y / ☒ N

Additional Comments:

No.	Year	Make/Model	No.	Year	Make/Model
T11	2015	DODGE RAM 2500 Pickup	H11		PRO MAC 690 Concrete Saw
T12	2006	FORD F450 Pickup	H27	2007	EZ-SET Grapple Claw
T15	2019	FORD F450 Pickup	H28	2008	Grapple to E27 (Granite Claw)
T16	2022	FORD F350 Pickup	H34		TITAN Paint Striper GX160
T17	2001	FORD SRWSUP Pickup	H36		CLIPPER Concrete Saw
T21	1993	INT'L 2554	H38		Plate Compactor
T22	2001	INT'L 2554	H39		HOMELITE Mud Pump
T23	2010	INT'L 7400	H49		ARIENS Power Broom
T24	2016	INT'L 7400	H51	2008	ICS 12" Concrete Saw
T26	2008	INT'L 7400	H55	2009	18" Chainsaw 350
T28	1998	INT'L 4700	H56		Spreader Bar (Homemade)
			H57		HOMELITE Brush Cutter
			H58		DIETZ Arrow Board
			H59		MILWAUKEE Hammer Drill
E14	1988	FORD 5610 Tractor	H62		REDMAX Blower
E114	1988	ALAMO Broom	H63		HUSQ. Pressure Washer (Gas)
E214		VALBY Chipper	H64		HONDA 6500 KW Generator
E314		ALAMO Brush Mower Deck	H65		Traffic Stand
E414		ALAMO Flail Head	H66	2009	HONDA Pump WD30X
E15	1983	FORD 1700 Tractor	H67	2007	NORTHSTAR Sprayer
E115		FORD Finish Mower Deck	H68		LITTLE WONDER Blower (Used)
E215	2009	WOODS Brush Hog	H70	2011	HONDA Water Pump
E16	1987	IR Compressor	H71		DYNA Plate Compactor
E216		CP Jackhammer	H72		WALKER BS500 Compactor
E17	1986	BOBCAT 843 Skidsteer	H73	2010	HUSQVARNA 576XP
E117		FORD Snowblower	H74		CP Rockdrill CP32A-1
E217		SWEEPSTER 5' Power Broom	H75	2017	HUSQVARNA 543XP
E317		BOBCAT Dust Pan Sweeper	H76	2017	CHICAGO Pneumatics MV90
E417	2003	15C Power Auger	H77	2017	STIHL HT103 Pole Saw
E20	2003	SNOWBEAR Trailer	H78	2018	HUSQVARNA K760 Rescue Saw
E21	2003	JOHN DEERE Backhoe	H79	2018	REDMAX EBZ7500 Leaf Blower
E23		Leaf Vac Unit	H80	2018	HUSQVARNA 550XP - 18" Chain Saw
E24	2005	Tailgate Spreader	H81	2017	ECHO PPT-2620/H Power Pruner
E25		5000 Gallon Ice Ban Tank	H82	2019	HUSQVARNA 562XP
E26		Paint Trailer (Homemade)			
E28	2008	JD 544 Loader	P1	2008	FORD F350 Pickup
E29		Dump Body (for T22)	P30	1993	FORD F150 Pickup
E35	2016	BELMONT Equipment Trailer	P31		JOHN DEERE Ride-On Mower 72"
E36	2011	CAR-MATE Emergency Resp Trailer	P44		Agricultural Spreader
E37	1995	HOLDER C9700H	P55		MID-ATLANTIC Equipment Trailer
E50	2000	STOW Roller	P56	2008	JOHN DEERE Walk-Behind Mower
E51	2010	CRA Mini Melter	P57	2008	POULAN 20" Push Mower
E52	2011	STEPP SSPH-1.0 Hot Box	P58		JOHN DEERE Walk-Behind Mower
E53		Shop Made Plate Compactor Carrier	P59		JOHN DEERE Ride-On Mower 38"
E54	2006	ELGIN Sweeper	P60		TRAC VAC
E55	1999	MORBARK Chipper	P63	2014	HUSQVARNA 525 LST
			P64	2014	HUSQVARNA 525 LST
			P65	2009	HUSQVARNA 326 LS
			R1		Recycle Box

<u>No.</u>	<u>Year</u>	<u>Make/Model</u>	<u>No.</u>	<u>Year</u>	<u>Make/Model</u>
E721		FRINK 10' 3910 P1SAWG Poly Plow	S-2		BENWIL Lift
E822	2000	HI-WAY Sander	S-3		MILLERMATIC 251 Mig Welder
E824		TORWEL 6 Yd. SS Sander	S-4		1000 Gallon Fuel Tank
E828		TORWEL 3.2 Yd. SS Sander	S-5		MCNAUGHT Minilube
E912		FISHER 9' Plow (for T12)	S-6		MILWAUKEE Heat Gun
E913	2015	MEYER 8' Pro Plow	S-8		ARO AIR Grease Gun
E914	2016	FISHER Minute Mount 2 - 8'	S-10		CHICAGO Air Hammer
E921	1982	FRINK 10' Poly Plow	S-11	2010	POWER EAGLE Pressure Washer
E922	2000	EVEREST 11' Steel Plow (for T24)	S-12		SEARS Compressor (Inman)
E923	2000	EVEREST 11' Wing Plow (for T26)	S-13		SOLAR Power Pack
E924	1999	MONROE 10' Plow	S-14		PT 11 GAL PORT Air Tank (in T14)
E925		FISHER 8' Plow	S-15	2016	DEWALT 20V Impact Driver
E926	2008	EVEREST 11' Steel Plow	S-16		AIPHONE Intercom System
E928		FRINK 9' Poly Plow	S-18		ALLIED Engine Hoist
E931	1970	WAUSAU 10' Plow	S-19		LINCOLN Mig Welder
E932		MONROE MS-5510 Scraper (for T22)	S-20		REELCRAFT Air Hose Reel
E933		MONROE MF5 Scraper (for T21)	S-21		OTC 20T Bottle Jack
E935	2008	EVEREST 11' Plow (for T22)	S-23		I/R Air Compressor
E936	2011	FISHER 10' Plow (for T28)	S-24	2016	DEWALT 20V Hammer Drive
E937	2015	EVEREST 11' High Discharge Plow	S-25		MTD Tripod Jack Stand
E940	2016	EVEREST 11' Wing	S-26		LINCOLN Stick Welder
			S-27		MTD Jack Stand
			S-28		MTD Transmission Jack
			S-29		OTC 3T Floor Jack Model # 1504A
			S-30		IR 3H Drive Ratchet Model # 107XP
			S-31	2012	SNAP ON 1/2 Impact Wrench
			S-32	2006	MILWAUKEE Sawzall
			S-33		Battery Charger
			S-34		THOMAS and BETTS Battery Crimp Tool
			S-35		CHICAGO D.A. Sander CP 870 (B&T)
			S-36		EVERCLEAR 30 Gal Parts Washer
			S-37		ROL-AIR Compressor
			S-38	2016	DEWALT 20V Sawzall
			S-39	2010	MAKITA 7" Grinder
			S-40	2011	BIG RED 3 Ton Jack
			S-41	2011	Shop Press 40T
			S-42	2012	AIR KING M35P
			S-43		Used Pallet Jack
			S-44	2014	MURRAY 927ES Snow Blower
			S-45	2014	MURRAY 824EX Snow Blower
			S-46		DEWALT 12" Cut-Off Saw
			S-47	2012	AIR KING Filtration System