

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

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

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2019 and June 30, 2020 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization:

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: <https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>

Impairment(s)			
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input checked="" type="checkbox"/> Chloride	<input checked="" 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 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 2 Requirements

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

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

See 2020 MS4 Annual Report Year 2 Requirements Addendum.
See 2020 MS4 Annual Report Infrastructure Maintenance Requirements Addendum

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:

2020 MS4 Annual Report - SSO Addendum

- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- Provided training to employees involved in IDDE program within the reporting period
- All curbed roadways were swept at least once within the reporting period
- Updated outfall and interconnection inventory and priority ranking as needed

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

The Town of Arlington is working with the Mystic River Stormwater Education Collaborative to coordinate and perform proper IDDE training to staff on an annual basis.

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:

There are very few septic systems in the Town of Arlington. As properties with septic systems are sold, the owners are required to abandon the septic system and connect to the Town sewer system.

See 2020 MS4 Annual Report Septic List Addendum

Chloride

Annual Requirements

Public Education and Outreach

- Included an annual message in November/ December to private road salt applicators and commercial
- industrial site owners on the proper storage and application rates of winter deicing material, along with the steps that can be taken to minimize salt use and protect local waterbodies

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 of Arlington has developed annual messaging for this requirement which is located on the Town Web Page. Additional plans to identify targeted parcels, notification methods and defined and measurable metrics are in progress.

Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release 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 listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was
- estimated consistent with Attachment 1 to Appendix H. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen 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:

see 2020 MS4 Annual Report: New BMP 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:

see 2020 MS4 Annual Report: New BMP Information

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:

Cleaned and inspected all Town catch basins in Summer 2020

Charles River Watershed Phosphorus TMDL Completed Legal Analysis

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 Engineering Division is in discussion with the Legal Department to determine the appropriate course of action and time line. Major consideration includes formulating an analysis of all review Stormwater Management Plan Submittals using the UNHSWC Spreadsheet to determine contaminant removal of each BMP installed.

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

The Engineering Division is formulating plans to consider providing stormwater workshops to residents to identify simple steps homeowners can make to reduce roof runoff.

- How to adopt and care for a rain garden
- Roof Runoff Drywell Program

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:

All necessary data is included on the Town GIS MS4 Map

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:[Message name here]

Message Description and Distribution Method:

see 2020 MS4 Annual Report - Minimum Control Measures Addendum - this information was provided as part of the Mystic river Stormwater Education Collaborative and included:

- 8 posts to MyRWA social media pages and shares to the Town of Arlington Social Media Pages

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Monitoring and tracking of views, likes, shares were tracked in an effort to determine effectiveness
see 2020 MS4 Annual Report - Minimum Control Measures Addendum

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:

MCM2: Public Participation

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

No changes were made to the SWMP plan

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**:

None during this Permit Year #2

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

Below, check all that apply.

The following elements of the Phase I map have been completed:

- Outfalls and receiving waters
- Open channel conveyances
- Interconnections
- Municipally-owned stormwater treatment structures
- Waterbodies identified by name and indication of all use impairments
- Initial catchment delineations

Optional: Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:

The MS4 GIS Map is continually being refined and currently includes outfalls, receiving waters, open channel conveyances, municipally owned stormwater BMP's, catchment delineations, intercommunity connections and water bodies identified by name with impairments

Screening of Outfalls/Interconnections

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

- The outfall screening data is attached to the email submission
- The outfall screening data can be found at the following website:

Outfall sampling is usually performed by Summer Interns. The Town was unable to provide Intern opportunities due to COVID-19. Outfall sampling will be performed in Permit Year #3 through a contract with Weston & Sampson Engineers.

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

Number of outfalls screened:

Catchment Investigations

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

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

Catchment Investigations were unable to be performed in Permit Year #2. Investigations will be performed in Permit Year #3 through a contract with Weston & Sampson Engineers.

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:

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

IDDE Progress

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

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

No Illicit Discharges were found during Permit Year #2

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:

Number of illicit discharges removed:

Estimated volume of sewage removed: 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:

Total number of illicit discharges removed:

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

N/A

Employee Training

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

No training performed during Permit Year #2

MCM4: Construction Site Stormwater Runoff Control

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

Number of site plan reviews completed:

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

Ordinance or Regulatory Mechanism

Below, select the option that describes your ordinance or regulatory mechanism progress.

- Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
- Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- Bylaw, ordinance, or regulations have not been updated or adopted

As-built Drawings

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

The updated bylaw and regulations have created a new, more thorough permitting process for stormwater. Arlington worked with consultant Horsley Witten to develop regulations that require an as-built and O&M plan to close out stormwater permits. The Engineering Division uses GIS to georeference construction projects and new BMPs, linking the O&M plan and frequency requirements so that the Town can ensure proper O&M.

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:

Assessment of the street design and parking lot assessment has not yet commenced.

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:

In Year 2, Arlington installed 20 infiltration trenches and constructed two rain gardens (CZM and Spy Pond). Arlington continues to apply for grants to construct green infrastructure in public parks, in ROWs, and other public spaces. In Year 3, Arlington will begin documenting these projects together for the green infrastructure report.

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:

Inventory of Town properties and facilities was performed in Year 1. A Retrofit Inventory will be completed by the end of permit Year 4.

MCM6: Good Housekeeping

Catch Basin Cleaning

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

Number of catch basins inspected:

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:

All catch basins cleaned during year #1 and scheduled to be cleaned during year #2 will be cleaned regardless of level of sediment to prepare a base line to follow. If sediment exceeds 50% of sump depth in two consecutive years the tributary drainage collection system will be investigated for sources of excessive loading.

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:

O&M Procedures and Inventory of Permittee-Owned Properties

Below, check all that apply.

The following permittee-owned properties have been inventoried:

- Parks and open spaces
- Buildings and facilities
- Vehicles and equipment

The following O&M procedures for permittee-owned properties have been completed:

- Parks and open spaces
- Buildings and facilities
- Vehicles and equipment

Stormwater Pollution Prevention Plan (SWPPP)

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

Number of site inspections completed:

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

The 3 facilities that require a SWPPP include DPW (51 Grove St), Public Safety Maintenance Facility (112 Mystic St), and Arlington High School (869 Mass Ave). No actions taken.

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):

N/A

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

N/A

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:

New BMP installations for 2020 include 20 new infiltration trenches and 2 new rain gardens. A format to enter this data into the GIS System is under development and will include documenting the following information for each BMP: location, date of installation, contractor, dimensions, contaminant removal

COVID-19 Impacts

Optional: If any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

As stated previously, Outfall Sampling and Investigations are typically performed by Summer Interns. The Town was unable to fill the positions due to COVID-19. To supplement this effort, the Town has contracted with Weston & Sampson Engineers to begin outfall screening, sampling and Investigations

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 3 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary

Provide any additional details on activities planned for permit year 3 below:

The Engineering Division and Environmental Planner meet bi-weekly to address and formulate plans to meet the requirements of the Permit. These brain storming sessions allow the Town to consider options, alternatives and adjust plans through a wide lens and overview.

Part V: Certification of Small MS4 Annual Report 2020

40 CFR 144.32(d) Certification

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

Name:

Title:

Signature:

Date:

[Signatory may be a duly authorized representative]



TOWN OF ARLINGTON
 Department of Public Works
 51 Grove Street
 Arlington, Massachusetts 02476
 Office(781) 316-3320 Fax (781) 316-3281

Engineering Division

2020 Street Sweeping Optimization Plan Addendum

The Arlington Department of Public Works completed the street sweeping requirements for the Year 2 permit. All street sweeping was performed by Snow Plow route and coordinated on the GIS Map.

DPW Street Sweeping Procedures:

DPW adheres to the following street sweeping procedures:

Spring street sweeping operations: All streets are swept once in the spring, typically when snow and weather conditions allow. Typically beginning in mid-March.

Fall street sweeping operations : All streets are swept once in the fall, typically when snow and weather conditions allow. Typically up to end of December.

Once street sweeping operations commence the DPW performs additional street sweeping every week on the following roadways:

- Mass Ave.(3.83mi.)
- Grove St. (0.28mi.)
- Brattle St. (0.33mi.)
- Summer St. (2.03mi.)
- Forest St. (0.94mi.)
- Park Ave.Ext.(0.49mi.)
- Lowell St.(0.66mi.)
- Paul Revere Rd.(0.42mi.)
- Park Ave.(0.47mi.)
- Appleton St.(1.33mi.)
- Pleasant St.(0.87mi.)
- Mystic St.(1.53mi.)
- Lake St.(0.93mi.)
- Broadway(1.0mi.)
- Warren St.(0.54mi.)
- Chestnut St. (0.22mi.)
- Municipal Parking Lots (0.58 mi.equiv)

As part of MCM Section 6 the following is required:

Sweep all streets and permittee-owned parking lots in accordance with permit conditions

2020 Annual Street Sweeping Summary for permit period July 1, 2019 to June 30, 2020

Spring – beginning mid-march (x2)

a. All streets are swept

i. Public Ways:

93.25 miles (186.5 lane miles)

ii. Private Ways:

22.28 miles (44.56 lane miles)

Fall – beginning mid-march (x 1)

b. All streets are swept

i. Public Ways:

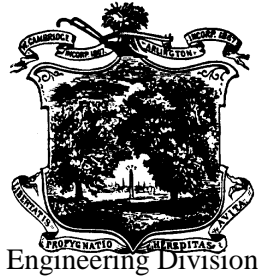
93.25 miles (186.5 lane miles)

ii. Private Ways:

22.28 miles (44.56 lane miles)

Additional Sweeping – 34 weeks (34 x 32.91 lane miles): 558.47 miles (1,118.94 lane miles)

Total Streets swept for permit period July 1, 2019 to June 30, 2020: Total = ~1,812 lane miles



TOWN OF ARLINGTON
Department of Public Works
51 Grove Street
Arlington, Massachusetts 02476
Office(781) 316-3320 Fax (781) 316-3281

2020 MS4 Annual Report

SSO Addendum

September 28, 2020

SSO DATE							
START	END	REPORTED TO DEP	REPORTED BY	POSITION	LOCATION	CAUSE	EST. DISCHARGE
05/12/2020	5/12/2020	05/12/20	Dan Stoneking	Interim Water & Sewer Superintendent	1448 Mass. Ave.	blockage	20 Gal.



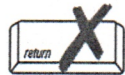
Massachusetts Department of Environmental Protection
 Bureau of Water Protection – Wastewater Management Program
Sanitary Sewer Overflow (SSO)/Bypass
Notification Form

FOR DEP USE ONLY

Tax Identification Number _____

A. Reporting Facility

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Facility Information

Town of Arlington
 Reporting Sewer Authority _____ Permit # _____

2. Authorized Representative Transmitting Form:

Dan Stoneking 781-316-3310
 First Name Last Name Telephone No.
 Interim Water/Sewer Supervisor dstoneking@town.arlington.ma.us
 Title E-mail Address

B. Phone Notifications:

See DEP Regional Office telephone and fax numbers at the end of this form.

- MassDEP staff contacted: Paul Giddings
 first name last name
 Date/Time contacted: 5/12/20 1:15
 Date Time am pm
- EPA staff contacted: Douglas Koopman
 first name last name
 Date/Time EPA contacted: 5/12/20 1:00
 Date Time am pm
- Board of Health contacted: Emily Sullivan
 First Name Last Name
 Date/Time contacted: 5/12/20 1:05
 Date Time am pm
- Others notified (select all that apply); Conservation Commission
 Harbormaster Shellfish Warden Division of Marine Fisheries
 Downstream Drinking Water Supplier Watershed Association
 Beach Resource Manager Other: _____
 (specify)

C. SSO Information

- SSO Discovered: 5/12/20 9:30
 Date Time am pm
 By: Dan Stoneking
- SSO Stopped: 5/12/20 10:00
 Date Time am pm
- SSO Discharge from: Sanitary Sewer Manhole Pump Station
 Backup into Property Other: _____
 (specify)
- SSO Discharge to: Ground Surface (no release to surface water)
 Direct to Receiving Water _____
 (surface water)
 Catch basin to Receiving Water _____
 (surface water)
 Backup into Property Basement



Massachusetts Department of Environmental Protection
 Bureau of Water Protection – Wastewater Management Program
Sanitary Sewer Overflow (SSO)/Bypass
Notification Form

FOR DEP USE ONLY

Tax Identification Number _____

C. SSO Information (cont.)

Location: 1448 Massachusetts Avenue
 (Description of discharge site or closest address)

5. Estimated SSO Volume at time of this Report: 20 Gallons

Method of Estimating Volume: Visual

6. Cause of SSO Event:

Rain Event Pump Station Failure Insufficient Capacity in System

Treatment Unit failure

Sewer System Blockage: Pipe Collapse Root Intrusion Grease Blockage

Other: Sanitary wipes causing blockage
 (Specify)

7. Corrective Actions Taken:

Jet towards blockage from nearest downstream manhole.

Impact Area cleaned and/or disinfected: Yes No

Disinfected area with biodegradable sanitizing virucide cleaner.

Corrective Actions Completed: Yes No

Modified schedule for sewer lines frequency of cleaning and maintenance.

D. Comments/Attachments/Follow-up

I wish to provide (select all that apply):

Attachment Additional comments below: No additional comments or attachments

Additional comments and planned actions:

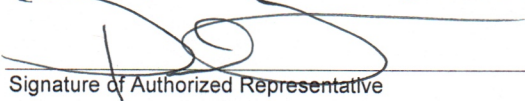


Sanitary Sewer Overflow (SSO)/Bypass Notification Form

Tax Identification Number

E. Certification Statement

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, 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.



Signature of Authorized Representative

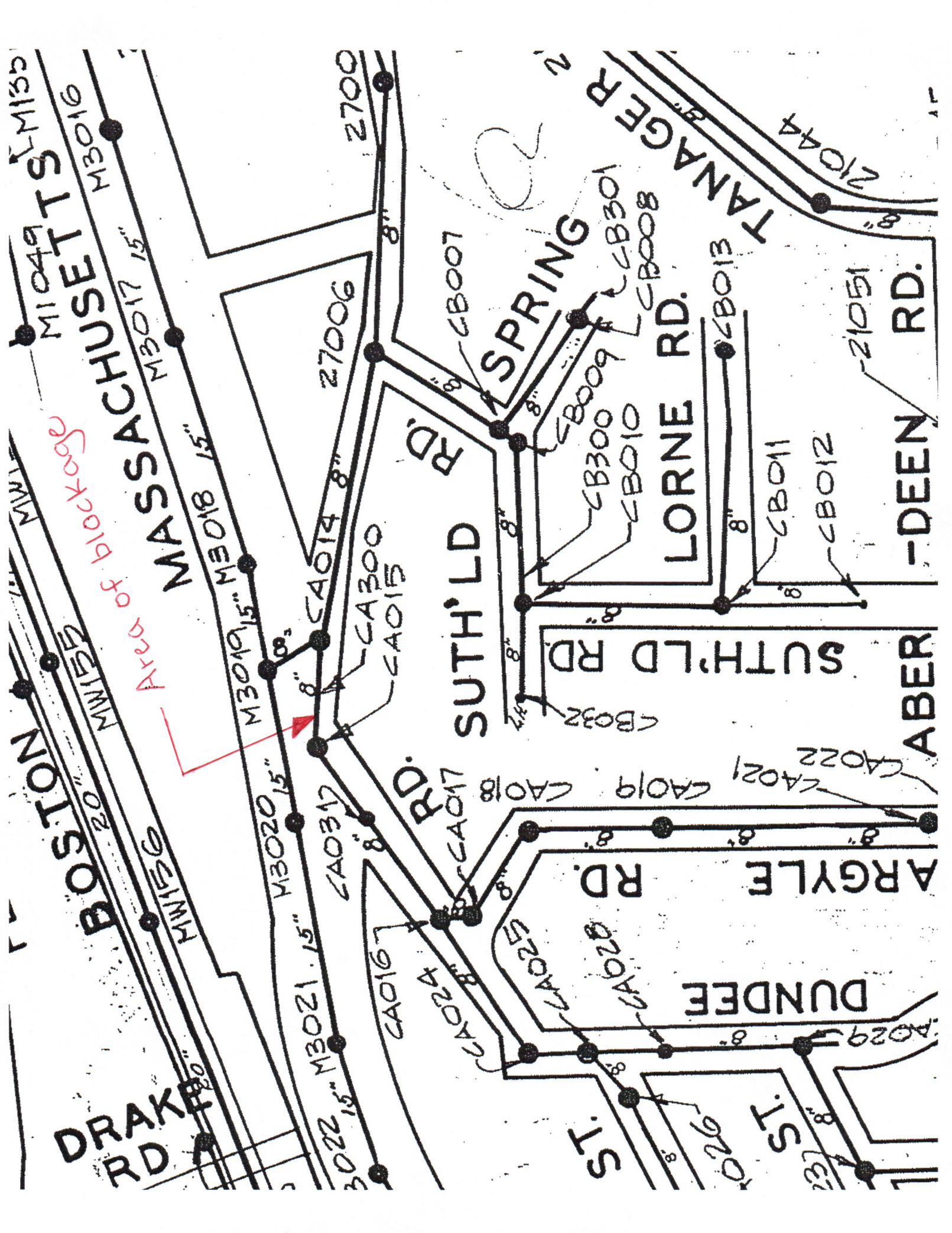
5/12/20

Date Signed

Please keep a copy of this report for your records. When submitting additional information, include the MassDEP Incident Number from this report.

MassDEP Regional Office and EPA Telephone and Fax Numbers:

Northeast Region	Phone: 978-694-3215	Fax: 978-694-3499
Southeast Region	Phone: 508-946-2750	Fax: 508-947-6557
Central Region	Phone: 508-792-7650	Fax: 508-792-7621
Western Region	Phone: 413-784-1100	Fax: 413-784-1149
EPA	Phone: 617-918-1510	
EPA for Southeast Region, David Turin	Phone: 617-918-1598	Fax: 617-918-0598
EPA for Northeast, Central and Western Regions, Douglas Koopman	Phone: 617-918-1747	Fax: 617-918-0747
DEP 24-hour emergency	Phone: 888-304-1133	





Engineering Division

TOWN OF ARLINGTON
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2020 MS4 SEPTIC SYSTEM LIST

Street #	Address	Status
13	Aerial Street	
19	Brand Street	
25	Brand Street	
84	Brand Street	
147	Charlton Street	connected
96	Edmund Road	connected
35	Evergreen Lane	
30	Garden Street	
271	Hillside Ave	connected
16	James Street	connected
21	James Street	
263	Lake Street	
331	Lake Street	
56	Madison Ave	connected
1520	Mass Ave.	
339	Mystic Street	connected
385	Mystic Street	connected
429	Mystic Street	connected
469	Mystic Street	connected
471	Mystic Street	connected
4	Old Mystic Street	
16	Perth Road	connected
146	Pleasant Street	removed 6/13/17
281	Renfrew Street	
110	Rhinecliff Street	
110	Rhinecliff Street	
18	Ronald Road	connected
22	Ronald Road	
600	Summer Street	
15	Thesda Street	connected
59	Thesda Street	?
69	Westminster Ave	
193	Westminster Ave	connected
96	Westmoreland Ave	
11	Woodbury Street	
20	Woodbury Street	
26	Garden Street	



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2020 MS4 Annual Report

Outfall Screening Addendum

September 28, 2020

The Town of Arlington has contracted with Weston & Sampson Engineers to perform and coordinate necessary outfall screening, sampling and IDDE investigations in conjunction with the Permit. During the course of this work Weston & Sampson will update the GIS data and mapping accuracy on the Stormwater GIS layers. Results of the screening will be in coordination with the outfall prioritization matrix and IDDE Plan. The Town of Arlington and Weston and Sampson will review and evaluate progress made in spring 2021 to identify progress, update the long term plan, review budgetary items and a schedule in accordance with the MS4 time line.



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2020 MS4 Annual Report: New BMP Information

Town of Arlington 2020 Green Infrastructure Project

BMP Installation in 2020

BMP #	P Reduction (lb/yr)	N Reduction (lb/yr)	TSS Reduction (lb/yr)	Vol. Reduction (cf)
IT#1	0.26	1.66	52.24	39
IT#2	1.24	7.81	245.84	184
IT#3	0.95	5.96	187.45	140
IT#4	0.92	5.76	181.31	136
IT#5	1.04	6.54	205.89	154
IT#6	1.01	6.35	199.75	149
IT#7	0.40	2.54	79.9	60
IT#8	0.43	2.73	86.04	64
IT#9	1.99	12.50	393.34	294
IT#10	1.49	9.37	295.01	223
IT#11	1.46	9.18	288.86	216
IT#12	1.41	8.89	279.64	209
IT#13	1.01	6.35	199.75	149
IT#14	0.59	3.71	116.77	87
IT#15	0.73	4.59	144.43	108
IT#16	2.83	17.77	559.29	418
IT#17	2.61	16.40	516.26	386
IT#18	2.72	17.09	537.78	402
IT#19	0.75	4.69	147.50	110
IT#20	0.84	5.27	165.94	124
RG#1	0.99	6.25	197.67	147
RG#2	1.04	6.54	205.89	154
Total: =	26.71 lb/yr	167.95lb/yr	5,286.55lb/yr	3,953cf
	P Reduction	N Reduction	TSS Reduction	Vol. Reduction

Part II. Self-Assessment

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year FY20 (July 2019 - June 2020) (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Outreach and education for residents		<p>Minimum of 2 educational messages to this audience over the permit term, spaced at least one year apart</p> <p>The permittee shall document in each annual report the messages for each audience; the method of distribution; the measures/methods used to assess the effectiveness of the messages, and the method/measures used to assess the overall effectiveness of the education program.</p>	<p>Using materials supplied by Mystic River Watershed Association (www.mysticriver.org)</p> <p><u>Devil Ducky Stormwater PSA (herbicides, pesticides, grass clippings): July - September 2019</u></p> <p>Broadcasted Mystic Watershed specific stormwater video (adapted from ThinkBlue Maine’s Devil Ducky video) on local community TV</p> <ul style="list-style-type: none"> • Estimated viewership of XXX • MyRWA Facebook and Youtube, 543 reached, 57 views <p>Shared Devil Ducky social media post from to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p><u>Water Quality Report Card Press Release</u></p> <p>Shared press release in following venues:</p> <ul style="list-style-type: none"> • XX venue, with YY estimated viewership • XX venue, with YY estimated viewership 	<p>In FY21, we will carry out a similar suite of activities around: grass clippings, pet waste, and leaf litter, as well as adding materials on pesticides, herbicides, and rain barrels.</p>
				<p><u>Pet waste: July 2019</u></p> <p>Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments 	

				<ul style="list-style-type: none"> ● MyRWA facebook page 436 people reaches, 17 engagements, 10 likes, 2 shares <p>Broadcasted PSA on local community Radio from July - DATE 2019</p> <ul style="list-style-type: none"> ● XXX of listeners <p>Posted flyer at the following locations:</p> <ul style="list-style-type: none"> ● Estimated XXX of viewers <p>Sent flyer out in utility bills:</p> <ul style="list-style-type: none"> ● Sent to XX residents <p>Offered “Scoop the Poop” pledge to residents</p> <ul style="list-style-type: none"> ● XX residents signed the pledge <p>Put content on town/ city website</p> <ul style="list-style-type: none"> ● XYZ page views <p><u>Leaves: October 2019</u></p> <p>Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> ● XYZ page views ● XYZ likes ● XYZ shares ● XYZ comments ● MyRWA facebook, 456 people reached, 28 engagements, 6 likes, 2 comments, 1 share <p>Posted flyer at the following locations:</p> <ul style="list-style-type: none"> ● Estimated XXX of viewers <p>Put content on town/ city website</p> <ul style="list-style-type: none"> ● XYZ page views <p><u>Salt and de-icer: December 2019</u></p> <p>Shared social media post in English and Spanish to the town Facebook page on DATE</p> <ul style="list-style-type: none"> ● XYZ page views 	
--	--	--	--	--	--

- XYZ likes
- XYZ shares
- XYZ comments
- MyRWA 22 likes on FB

General Stormwater/ Catch Basin Brochure: Feb 2020

Sent flyer out in utility bills:

- Sent to XX residents

Posted flyer at the following locations:

- Estimated XXX of viewers

Fertilizer Use: March 2020

Shared social media post to the town Facebook page on DATE

- XYZ page views
- XYZ likes
- XYZ shares
- XYZ comments

Grass Clippings: March 2020

Shared social media post to the town Facebook page on DATE

- XYZ page views
- XYZ likes
- XYZ shares
- XYZ comments

Stormwater and Trash Webinar: April 2020

- 288 views
- 352 people reached

Stormwater Webinar: May 2020

MyRWA facebook page

- 453 Views

General blog and social media post on storm

				<p><u>drains:May 2020</u> https://mysticriver.org/new-blog-1/2020/4/27/4-stor-mwater</p> <ul style="list-style-type: none"> • 542 people reached • 4 shares <p><u>Dog Waste: May 2020</u> Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p><u>Dog Waste: June 2020</u> <i>**Additional posts given Covid19**</i> Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p><u>Infiltrate Stormwater Onsite/ Replace Lawn: June 2020</u> Broadcasted PSA on local community television from June 2020 -- DATE 2020</p> <ul style="list-style-type: none"> • XXX of listeners <p>Posted on town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments • MyRWA facebook page, 368 people reached, 19 engagements, 9 likes 	
	<p>Outreach and education for businesses, institutions (churches,hospitals), and</p>		<p>Minimum of 2 educational messages to this audience over the</p>	<p><u>Dumpster Maintenance: September 2019</u> Shared social media post to the town Facebook page on DATE</p>	

	commercial facilities		<p>permit term, spaced at least one year apart</p> <p>The permittee shall document in each annual report the messages for each audience; the method of distribution; the measures/methods used to assess the effectiveness of the messages, and the method/measures used to assess the overall effectiveness of the education program</p>	<ul style="list-style-type: none"> ● XYZ page views ● XYZ likes ● XYZ shares ● XYZ comments <p>Posted flyer at the following locations:</p> <ul style="list-style-type: none"> ● Estimated XXX of viewers <p>Sent brochure.</p> <ul style="list-style-type: none"> ● Sent XXX brochures <p><u>Leaves: October 2019</u> Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> ● XYZ page views ● XYZ likes ● XYZ shares ● XYZ comments 	
				<p>Posted flyer at the following locations:</p> <ul style="list-style-type: none"> ● Estimated XXX of viewers <p>Put content on town/ city website</p> <ul style="list-style-type: none"> ● XYZ page views <p><u>Trash: November 2019</u> Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> ● XYZ page views ● XYZ likes ● XYZ shares ● XYZ comments <p><u>Salt and de-icer: December 2019</u> Shared social media post in English and Spanish to the town Facebook page on DATE</p> <ul style="list-style-type: none"> ● XYZ page views ● XYZ likes ● XYZ shares 	

			<ul style="list-style-type: none"> • XYZ comments <p>Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures <p><u>Automotive Industry: January 2020</u></p> <p>Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures <p><u>Catch Basin Maintenance: Feb 2020</u></p> <p>Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures <p><u>Fertilizer Use: March 2020</u></p> <p>Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p><u>Grass Clippings: March 2020</u></p> <p>Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments 	
	<p>Outreach and education for developers (construction)</p>	<p>Minimum of 2 educational messages to this audience over the permit term, spaced at least one year apart</p> <p>The permittee shall document in each annual report the messages for each audience; the method of</p>	<p><u>Construction BMPs: August 2019</u></p> <p>Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p>Posted flyer at the following locations:</p> <ul style="list-style-type: none"> • Estimated XXX of viewers 	

			<p>distribution; the measures/methods used to assess the effectiveness of the messages, and the method/measures used to assess the overall effectiveness of the education program</p>	<p>Shared press release in following venues:</p> <ul style="list-style-type: none"> • XX venue, with YY estimated viewership • XX venue, with YY estimated viewership <p><u>Dumpster Maintenance: September 2019</u> Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p>Posted flyer at the following locations:</p> <ul style="list-style-type: none"> • Estimated XXX of viewers <p>Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures <p><u>Construction BMPs Flyer & SWPPP for small construction sites: Feb 2020</u> Posted flyer at the following locations:</p> <ul style="list-style-type: none"> • Estimated XXX of viewers <p>Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures 	
Revised					
	Outreach and education for industrial facilities		<p>Minimum of 2 educational messages to this audience over the permit term, spaced at least one year apart</p> <p>The permittee shall document in each annual report the messages for each audience; the method of distribution; the measures/methods used</p>	<p>Using materials supplied by Mystic River Watershed Association (www.mysticriver.org)</p> <p><u>Dumpster Maintenance: September 2019</u> Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p>Posted flyer at the following locations:</p> <ul style="list-style-type: none"> • Estimated XXX of viewers 	In FY21, we will carry out a similar suite of activities around

			<p>to assess the effectiveness of the messages, and the method/measures used to assess the overall effectiveness of the education program</p>	<p>Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures <p><u>Salt and de-icer: December 2019</u> Shared social media post in English and Spanish to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p><u>Automotive Industry: January 2020</u> Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures <p><u>General Industry Brochure: January 2020</u> Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures <p><u>Catch Basin Maintenance: Feb 2020</u> Sent brochure.</p> <ul style="list-style-type: none"> • Sent XXX brochures <p><u>Fertilizer Use: March 2020</u> Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments <p><u>Grass Clippings: March 2020</u> Shared social media post to the town Facebook page on DATE</p> <ul style="list-style-type: none"> • XYZ page views • XYZ likes • XYZ shares • XYZ comments 	
<p>Revised</p>					



Engineering Division

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MS4 Infrastructure Maintenance Requirements Addendum:

The Town of Arlington Engineering & GIS staff have developed a GIS digital procedure to indicate status of BMP inspections and maintenance.

Using the BMP entry tool new BMP's are added to the inventory using an on-line tablet requiring input of specific BMP criteria including:

- BMP type
- Geospatial location
- Inspection interval
- BMP dimensional data
- Maintenance requirements

The GIS Stormwater Map will identify the BMP locations and inspection status by placing a red ring around the map symbol when an inspection is required. A green ring is placed when the appropriate inspection has been performed. The Engineering Division is responsible for performing the inspections and coordinating the cleaning and maintenance of BMP's by DPW Staff. Engineering will also monitor the cleaning and update the BMP GIS Tool to identify the condition and status of the BMP after maintenance is completed, including work performed, observations and documenting measurable goals including quantity of sediment removed etc.

Implementation of this system was planned for 2020 but due to COVID 19 the GIS Office was tasked with COVID 19 work. The current plan is to implement by January 1, 2021.



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2020 MS4 Annual REPORT

July 1, 2019 – June 30, 2020

Catch Basin Cleaning Optimization Plan - Addendum

September 28, 2020

Year #2

- **Catch Basin** cleaning program was completed for year #2 by. All catch basins were inspected and cleaned by BMC Corporation.
- Removal of catch basin sediment consisted of the following:
 - a. July 1, 2019 – December 31, 2019 = 357 tons
 - b. January 1, 2020 – June 30, 2020 =Total Sediment removed =

Year #3

Annual Catch Basin maintenance scheduled to continue. Data collection will identify catch basins with excess sediment accumulation above 50% of sump for utilization in identifying problem areas.

- On-going goals are to continue to update the GIS system to identify gutter inlet configuration to determine structures that do not have a sump, also the status/presence of hooded outlets.