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

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

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

Part I: Contact Information

Name of Municipality or Organization: Town of Wellesley

EPA NPDES Permit Number: MAR041067

Primary MS4 Program Manager Contact Information

Name: David J. Hickey, Jr. Title: Town Engineer

Street Address Line 1: 20 Municipal Way

Street Address Line 2: na

City: Wellesley State: MA Zip Code: 02481

Email: dhickey@wellesleyma.gov Phone Number: (781) 235-7600

Stormwater Management Program (SWMP) Information

SWMP Location (web address): https

https://www.wellesleyma.gov/319/stormwater-management

Date SWMP was Last Updated: Aug 17, 2020

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

na

Part II: Self-Assessment

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

Impairment(s)

☒ Bacteria/Pathogens ☐ Chloride ☐ Nitrogen ☐ Phosphorus
☐ Solids/ Oil/ Grease (Hydrocarbons)/ Metals

TMDL(s)

In State: ☐ Assabet River Phosphorus ☐ Bacteria and Pathogen ☐ Cape Cod Nitrogen
☒ Charles River Watershed Phosphorus ☐ Lake and Pond Phosphorus

Out of State: ☐ Bacteria/Pathogens ☐ Metals ☐ Nitrogen ☐ Phosphorus

Clear Impairments and TMDLs

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

Year 2 Requirements

☒ Completed Phase I of system mapping

☒ Developed a written catchment investigation procedure and added the procedure to the SWMP

☒ Developed written procedures to require the submission of as-built drawings and ensure the long term operation and maintenance of completed construction sites and added these procedures to the SWMP

☒ Enclosed or covered storage piles of salt or piles containing salt used for deicing or other purposes

☒ Developed written operations and maintenance procedures for parks and open space, buildings and facilities, and vehicles and equipment and added these procedures to the SWMP

☒ Developed an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment and added this inventory to the SWMP

☒ Completed a written program for MS4 infrastructure maintenance to reduce the discharge of pollutants

☒ Developed written SWPPPs, included in the SWMP, for all of the following permittee owned or operated facilities: maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater

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

Annual Requirements

- ☒ Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- ☒ Kept records relating to the permit available for 5 years and made available to the public
- ☒ The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
  - ○ This is not applicable because we do not have sanitary sewer
  - ◉ This is not applicable because we did not find any new SSOs
  - ○ The updated SSO inventory is attached to the email submission
  - ○ The updated SSO inventory can be found at the following website:
- ☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- ☒ Provided training to employees involved in IDDE program within the reporting period
- ☒ All curbed roadways were swept at least once within the reporting period
- ☒ Updated outfall and interconnection inventory and priority ranking as needed

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

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:

Our messages for owners with septic systems was through the ThinkBlueMassachusetts campain on our

website. 98% of the Town is served by a Municipal sewer collection system.

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 legal analysis was completed on 9/24/20 and has been attached to the SWMP.

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

This year, the Town best improvements have been expanding Stormwater Management content on the website and expanding information we provide to the public, businesses and institutions. The website added links to public information form regional and local sources such as ThinkBlue and Wellesley's Natural Resources Commission (NRC). With expanded on-line mapping residents can obtain geographical information and copies of our annual reports and Stormwater Management Program.

Wellesley continues to be invested in Pond Management Program to improve water quality. Key work includes active phosphorus removal program, weed harvesting and annual reporting of Morses Pond, as well focused shore side project that will improve sediment and erosion control at Morses Pond. The Town is also been sampling Fuller Brook and several other ponds to evaluate the impacts the conditions and plan for future projects, specifically we are interested in assessing the impact of the Fuller Brook Park Preservation Project on water quality in the brook. We hope that the sample results will show that the improvements to Fuller Brook Park show that Fuller Brook can be removed from the list of impaired waters.

The Town continues to actively review stormwater management and treatment in land development projects and this year as part of an initiative to improve the playing fields at Hunnewell Field, we constructed wetland including the installation of a sediment forebay and micropool with educaiton signs expalining the importance and function.

The DPWcontinues to work with the NRC, the State Stormwater Coalition and our local Charles River Stormwater Collaborative to discuss and implement stormwater campaigns in Massachusetts such as the ThinkBlueMassachusetts campaign, which is advancing public outreach and public participation initiatives to help advance the cause of improving stormwater quality, reduce sediment and erosion, eliminate IDDE and pesticides. We continue to attend educational seminars through Soak Up the Rain, MADEP, EPA and Southeast New England Network.

In the Public involvement realm we met with Sprague School fifth-graders to discuss pesticides elimination and nutrients reduction in the nearby Boulder Brook Conservation area and around Morses Pond. This presentation was also featured in the NRC newsletter. We also met with Schofield School second graders as they presented their experiments, results and recommendations related to improving an erosion problem near their school.

The Town purchased a 2020 RAVO 5i Series street sweeper with a high efficiency vacuum sweeping capability for filtering fine dust particles from vehicles and remove sediment, leaves, trash and debris from the roadway.

For large land development projects, we have included the practice of requiring Applicants to provide phosphorus removal calculations as part of our review process.

Part III: Receiving Waters/Impaired Waters/TMDL

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

- ○ Yes
- ◉ No

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

Part IV: Minimum Control Measures

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

MCM1: Public Education

Number of educational messages completed **during this reporting period**: 8

*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:Pet Waste Management

Message Description and Distribution Method:

Added a pet waste message to the Dog License Form, which is distributed to each resident requesting a dog license.
NRC posted in their newsletter in July 2019 a message asking visitors of Perrin Park to cleanup after their dogs.
We have included pet waste as part of our Hashtag Photo Contest that began in year 2 of the permit and continues to year 3.

Targeted Audience: Residents

Responsible Department/Parties: Engineering/NRC

Measurable Goal(s):

We had 3,570 dog licenses issued, which included the pet waste message on each application.

Message Date(s): Fall 2019

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

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

If yes, describe why the change was made:

BMP:Grass Clippings & Fertilizer Use

Message Description and Distribution Method:

The Town prepared a message on managing lawns and fertilizer usage. Good lawn management includes grasscycling or recycling the clippings by leaving them on the lawn. We also encourage phosphorus-free fertilizers. We reference the DEP "don't trash the grass" campaign and Sustainable Landscapes UMass extension, OrganicLandCare.net and ThinkBlueMassachusetts.org.

Targeted Audience: Residents, business, institutions and commercial facilities

Responsible Department/Parties: Engineering

Measurable Goal(s):

Added notice to the Town's Stormwater Management website. Included in the Town's newsletter, which is distributed to all the residence via mail.

Message Date(s): Fall 2019

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

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

If yes, describe why the change was made:

BMP:Pesticide Awareness

Message Description and Distribution Method:

The DPW continues to work with the Wellesley NRC to promote a campaign to eliminate the use of pesticides. In their quarterly newsletter, the NRC posted a notice from the Bates Elementary School 5th Graders, to reduce chemical pesticides in the Boulder Brook Reservation, which is close to their elementary school.

Targeted Audience: Residence, business and commercial facilities

Responsible Department/Parties: Engineering/NRC

Measurable Goal(s):

Distribute quarterly email from the NRC called Insights from Outside, which highlighted a recent ban on Roundup at the Linden Square Townhomes in Wellesley. The DPW switched to Triclopyr Ester (formerly Turflon Ester Ultra herbicide) with less chemical concentration for the treatment of poison ivy and discussed the environmental benefits at the DPW Board Meeting.

Message Date(s): July 2019 and January 2020

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:Fowl Water Advertisement

Message Description and Distribution Method:

ThinkBlue Massachusetts ran an educational advertisement campaign "Fowl Water" to help viewers visualize how stormwater pollution from motor oil, pet waste, and trash become stormwater pollution. Video advertisement on Facebook and Youtube (https://www.thinkbluemassachusetts.org/).

Targeted Audience: Residents

Responsible Department/Parties: Engineering, Massachusetts Statewide Municipal Stormwater Coalition

Measurable Goal(s):

The "Fowl Water" video was placed in Facebook, Instagram and Youtube. The Facebook/Instagram impressions were 32,540 and Youtube impressions 32,356 for the Town of Wellesley.

Message Date(s): May 16, 2020 to June 5, 2020

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:

This message was prepared with the assistance of the Charles River Stormwater Collaborative.

BMP:Annual Pet Waste Message - Scoop the Poop

Message Description and Distribution Method:

ThinkBlue Massachusetts shared posts on Facebook to encourage the proper management of pet waste.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Think Blue Massachusetts Facebook account has approximately 300 followers and averages approximately 3,000 reaches per month. The Town's website on the Stormwater web page has a link to Think Blue Massachusetts.
The DPW has an extensive pre-treatment procedure in-place, a copy of which is included in our SWMP, that includes a brine or pre-wetting chemicals. Our staff has presented the pre-treatment procedure we use at various Public Works events.

Message Date(s): July 17, 2019; August 14, 2019; April 9, 2020; May 13,18, 28 & 29, 2020; June 2, 2020

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:

We are utilizing work from the Massachusetts State Stormwater Coalition in addition to our own materials.

BMP:Annual Septic Maintenance Message

Message Description and Distribution Method:

Think Blue Massachusetts shared posts on Facebook regarding Septic Smart week to provide information to owners on septic systems about proper maintenance. (https://www.facebook.com/ThinkBlueMassachusetts/posts/1281120368722966).

Targeted Audience: Residents

Responsible Department/Parties: Engineering, Board of Health

Measurable Goal(s):

The Think Blue Massachusetts Facebook account has approximately 300 followers and averages approximately 3,000 reaches per month. The Town's website on the Stormwater web page has a link to Think Blue Massachusetts.

Message Date(s): September 2019

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

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

If yes, describe why the change was made:

We are utilizing work from the Massachusetts State Stormwater Coalition in addition to our own materials.

BMP:Annual Winter Deicing/salt Message

Message Description and Distribution Method:

Think Blue Massachusetts shared posts on Facebook regarding road salt application for residential, commercial & industrial site owners on the proper storage and application rates of winter deicing material. (https://www.facebook.com/ThinkBlueMassachusetts/posts/1281120368722966).

Targeted Audience: Residential, business, institutions, industrial and commercial facilities

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Think Blue Massachusetts Facebook account has approximately 300 followers and averages approximately 3,000 reaches per month. The Town's website on the Stormwater web page has a link to Think Blue Massachusetts.

Message Date(s): Nov 14, 2019; Dec. 5, 9, 13, 16, 17, 18 & 24, 2019; Jan. 7, 2020

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:

We are utilizing work from the Massachusetts State Stormwater Coalition in addition to our own materials.

BMP:Annual Message - Proper lawn maintenance

Message Description and Distribution Method:

Think Blue Massachusetts shared posts on Facebook in the spring on the proper use and disposal of grass clippings and encouraging the use of slow-release fertilizers. The DPW and NRC in the newsletter included messages on proper lawn maintenance, which is distributed both via mail, email and on the Town's website.

Targeted Audience: Residential, business, institutions, industrial and commercial facilities

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Think Blue Massachusetts Facebook account has approximately 300 followers and averages approximately 3,000 reaches per month. The Town's website on the Stormwater web page has a link to Think Blue Massachusetts.

Message Date(s): Nov. 1, 2019; April 28 & 30, 2020; May 14 & 22, 2020

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:

We are utilizing work from the Massachusetts State Stormwater Coalition in addition to our own materials.

BMP:[Message name here]

Message Description and Distribution Method:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

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

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

If yes, describe why the change was made:

Add an Educational Message

MCM2: Public Participation

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

A copy of the Town's Stormwater Management Program manual is now on the Town's website, which may be downloaded or read as Adobe PDF document. Many of our residences, contractors and business owners are becoming more aware of stormwater issues and are currently reviewing our stormwater initiatives through the NRC, as described above in the educational messages but also through our construction requirements. For example, through our site plan review process, Applicants must review the requirements to mitigate impervious area, reduce and eliminate sediment and erosion control and manage stormwater runoff. These review processes and questions brought to our attention have helped us to update our SWMP.

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**:

In the November 2019 Newsletter, the NRC noted that the Town's Sprague Elementary fifth-graders learned about watersheds and contaminants like fertilizer, pesticides and leaking car oil. They also saw real life point source pollution and shore lines around Morses Pond impacted by sediment and erosion control. Students are working on project, video and written pieces to share what they learned. They performed a PowerPoint presentation to show their work on this project with Town officials.

The NRC promotes a Rain Barrel Program to help manage stormwater runoff and manage water resources, including money saved by reducing water bills.

The Engineering Division is working with the State Stormwater Coalition to implement a Hashtag Photo Contest for the summer of 2020. The Hastag Photo Contest is designed to make our residences more aware of stormwater. Residents take pictures in Wellesley of stormwater related issues and post them to social media. The contest will award 20 participants with $100 gift cards to Amazon.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

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

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

Number of SSOs identified: 0

Number of SSOs removed: 0

MS4 System Mapping

Below, check all that apply.

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

☒ Outfalls and receiving waters

☒ Open channel conveyances

☒ Interconnections

☒ Municipally-owned stormwater treatment structures

☒ Waterbodies identified by name and indication of all use impairments

☒ Initial catchment delineations

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

We have completed the requirements of the Phase I map as described above. The Phase I map has been added to our Stormwater Management webpage for download. We continue to update the Phase I map as additional treatment structures are being added to our GIS system and updated on the Phase I map.

Screening of Outfalls/Interconnections

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

◉ 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: 18

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:

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

Number of catchment investigations completed this reporting period: 72

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

Percent of total catchments investigated: 20

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

The catchment investigations have centered around areas of the Town with gas stations, fleet service areas, illicit discharges and cross connections such as sewer mains conflicting with drain manholes.

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:

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

Number of illicit discharges identified: 1

Number of illicit discharges removed: 1

Estimated volume of sewage removed: 0 gallons/day

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

Total number of illicit discharges identified: 1

Total number of illicit discharges removed: 1

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

We assisted the Town of Newton in the investigation of an illicit discharge to the Charles River. The illicit discharge turned out to be from the installation of a geothermal well in Newton, which was identified, reported to DEP and overflow contained on the property. The illicit discharge was related to chemicals used for the installation of the geothermal well and not sewerage.

Employee Training

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

We perform IDDE training to every new employee as part of their orientation during the first week of employment. We also provide IDDE training for all employees as part of our Right-to-Know training that includes a Powerpoint presentation and explanation of IDDE and stormwater.

MCM4: Construction Site Stormwater Runoff Control

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

Number of site plan reviews completed: 5

Number of inspections completed: 2

Number of enforcement actions taken: 1

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

The number of inspections completed is lower than the number of site plan reviews because the some of the

projects have not commenced construction but are awaiting regulatory approval. Enforcement actions were taken on a few projects where the sediment and erosion controls were missing, ineffective or failed during a heavy rain event. This was a limited occurance and impacted mostly single family lot construction and one large subdivision. These smaller projects are generally not reviewed or conditioned by our various land development requirements so trtacing and oversight can be complicated, however the combined effort from the contractors and the DPW was quickly made to clean up the impact and the contractors were informed about the importance of controlling sediment.

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

Ordinance or Regulatory Mechanism

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

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

As-built Drawings

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

The Town requires through plan review a condition that Operation and Maintenance Plans be provided and annual inspection logs be submitted to the Town Engineer on an annual basis. As-built plans are required by the same mechanism as O&M Plans, with a stamped and signed plan prepared by a Professional Engineer or Land Surveyor in the Commonwealth of Massachusetts. The Town also provides inspection of the onsite drainage system, including measurements that provide ties to inspection ports and cleanouts. As-built plans submitted and approved by the Town of Wellesley Department of Public Works is updated in the Town's GIS system.

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:

The Town is currently reviewing several of our public parking lots for accessibility, parking spaces, sustainability, i.e., electric vehicle charging stations and interior traffic islands through the Town's Traffic Committee. The Traffic Committee is reviewing our current local regulations and guidelines to determine if addition changes are necessary. The Town has already adopted Complete Streets program that designs street for all users.

We are currently designing a roadway to create a road diet, reducing pavement width (eliminating impervious area), adding a drainage swale to improve flooding issues.

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:

Through the NRC, the Town offers rain barrels to residents and business owners. Education materials are provided on the Town's website and through NRC newsletters. For any new building projects, the Town considers green roofs and various infiltration practices such as rain gardens, drainage swales, etc. The Town is reconstructing a roundabout that includes the use of Flex MSE, a vegetated wall system and drainage swales. We have a proposed parking lot that will include two bioretention basins when constructed in year 3. We will continue to review green infrastructure in year 3 of the permit, possibly hiring a consultant to review with the Phosphorus Control Plan. The Town has adopted a sustainability campaign, see https://www.sustainablewellesley.com/.

Retrofit Properties Inventory

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

The Town has a softball project that included the installion of a constructed wetland as a retrofit to mitigate stormwater runoff from an upstream residential neighborhood. The constructed wetland is designed to help reduce phosphorus and nitrogen from stormwater runoff. The constructed wetland will include an educational sign.

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: 1,225

Number of catch basins cleaned: 1,225

Total volume or mass of material removed from all catch basins: 237 cubic yards

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

Total number of catch basins: 5,192

If applicable:

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

The DPW cleans out problematic catch basins that typically have a high sediment load based on a cleaning history of the system, which is kept in a list and cleaned twice per year. COVID had an effect on this year's program but crews were able to cleaning a minimum of 25% where we are finding the average to be fairly low volumes in the basins, but we are also tracking areas with larger sediment load.

Street Sweeping

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

- (●) Number of miles cleaned: 47
- ( ) Volume of material removed: 489 cubic yards
- ( ) Weight of material removed: 211 tons

O&M Procedures and Inventory of Permittee-Owned Properties

Below, check all that apply.

The following permittee-owned properties have been inventoried:

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

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

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

Stormwater Pollution Prevention Plan (SWPPP)

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

Number of site inspections completed: 1

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

We report SWPPP site inspections for a new private subdivision that is currently under construction and will be through the third year of the permit.

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:

The DPW performed water quality monitoring on two vernal pools that receive stormwater runoff from a residential neighborhood upstream. The water was tested for E. coli, phosphorus and nitrogen. The water quality results showed that the receiving water in the vernal pools is typical of water that has water fowl and high organic decomposition. Nitrogen and phosphorus levels were low.

Through the NRC, the Town has completed a Comprehensive Pond Management Program that included an assessment of eight public ponds. The program includes watershed assessment, water quality improvements and plan summary for future work. We have included a copy of the Morses Pond Annual Report dated 2019, which includes the phosphorus inactivation work and results. The DPW continues to perform work on the Morses Pond erosion maintenance work.

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:

The DPW has spent much time retrofitting, upgrading and repairing the Town's drainage system. For example, we have expanded the number of deep sumps basins in the system and we continue to install and plan parking bio-basins and swales. We completed the installation of a constructed wetland that includes a sediment forebay and micropool to help reduce sediment, contaminants and remove phosphorus and nitrogen and are maintaining the bio swles and constructed wetlands constructed in previous years.

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:

We could not advance our outfall screening and inspections during the months of March, April and May when the office operations were scaled down. Other operations such as street sweeping, catch basin inspections and cleaning was also affected by Covid-19 reduced this year.

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:

Year 3 of the permit will include the construction of grass swales for a roadway project, including the use of Flex MSE retaining wall, which is a sustainable retaining wall, using composting and sand bags rather than concrete. additionally we intend to produce concepts for five pilot projects on Town owned sites and infrastructure for retrofitting.

Our public education goals will include messages about leaf litter and pesticides for the fall, and we plan o stay active in local and regional stormwater coalitions

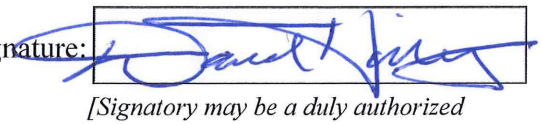
We continue to make progress on the catchment investigation by ranking, observing and inspecting outfalls and interconnections.

The Town will vote on a new drainage bylaw and we will work to straighten policies and utilize checklists that improve control for construction and post construction site inspections under the Town's drainage review bylaw. We also plan to hire a consultants to assist in the preparation of a Phosphorus Control Plan.

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:	David J. Hickey, Jr., P.E.	Title:	Town Engineer
Signature:		Date:	9-25-20

[Signatory may be a duly authorized representative]