

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

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

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

Part I: Contact Information

Name of Municipality or Organization: *Town of Oxford*

EPA NPDES Permit Number: *MAR041147*

Primary MS4 Program Manager Contact Information

Name: *Jared M. Duval, PE*

Title: *Director of Public Works*

Street Address Line 1: *450 Main Street*

Street Address Line 2:

City: *Oxford*

State: *MA*

Zip Code: *01540*

Email: *jduval@oxfordma.us*

Phone Number: *(508) 987-6006*

Stormwater Management Program (SWMP) Information

SWMP Location (web address): [*https://www.oxfordma.us/stormwater-management/pages/oxford-stormwater-management-program*](https://www.oxfordma.us/stormwater-management/pages/oxford-stormwater-management-program)

Date SWMP was Last Updated: *2021-09-01*

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

Part II: Self-Assessment

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

Impairment(s)

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

TMDL(s)

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

Out of State: Bacteria/Pathogens Metals Nitrogen Phosphorus

Clear Impairments and TMDLs

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

Year 3 Requirements

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

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

Dry weather outfall screening continued in Year 3 and 76% of outfalls have been screened. Due to staffing issues and reduction in scheduling due to COVID-19 the remaining outfalls were not screened. The Town plans to screen the remaining outfalls in Year 4 and then update the priority ranking as necessary.

Annual Requirements

Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
 Kept records relating to the permit available for 5 years and made available to the public
 The SSO inventory has been updated, including the status of mitigation and corrective measures implemented

- This is not applicable because we do not have sanitary sewer
- This is not applicable because we did not find any new SSOs

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

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

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

Municipal detention basins were not inspected during Year 3 due to reduced staffing during COVID-19.

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:

Social media messages were distributed by the Central Massachusetts Regional Stormwater Coalition (CMRSWC) regarding property maintenance of septic systems. A mailing specifically to property owners in the Wellington Brook catchment area will be conducted in September 2021.

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:

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:

- 1. Not all streets were swept twice a year due to reduced staffing during COVID-19.*
- 2. The Town is currently procuring the services of a consulting firm to track structural BMPs and estimate nitrogen removal.*

Lake and Pond Phosphorus TMDL

- Completed the funding source assessment

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

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

Part III: Receiving Waters/Impaired Waters/TMDL

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

- Yes
- No

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

In August 2020, the Town procured the services of a consulting firm to assist with several of our Stormwater Management Plan tasks. Upon review of our plan, the consultant determined that areas in Oxford that were part of the Urbanized Area in 2000 but not in the Urbanized Area in 2010 still need to be regulated under the NPDES permit. After reexamining our stormwater system map using both 2000 and 2010 Urbanized Area, 49 additional outfalls were identified. Our revised Receiving Waters Table is located at:

<https://www.oxfordma.us/stormwater-management/pages/oxford-stormwater-management-program>

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: 7.00000000

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: Rain Barrel Program

Message Description and Distribution Method:

Special Event - Organized rain barrel program for residents to purchase rain barrels at a discount to collect and re-use rainwater.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

98 rain barrel were sold and distributed

Message Date(s): March 15, 2021 - April 24, 2021

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: Proper Disposal of Leaf Litter

Message Description and Distribution Method:

Leaf Disposal Tips posted on Town's website and Facebook.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

687 people reached through Facebook.

Message Date(s):

November 20, 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:

Social media message was used instead of handing out flyers at the Fall Bulk Drop-Off due to Covid-19.

BMP: Central Massachusetts Regional Stormwater Coalition Social Media Messaging

Message Description and Distribution Method:

Our community is a member of the Central Massachusetts Regional Stormwater Coalition (CMRSWC). In November 2020, CMRSWC contracted Capital Strategic Solutions (CSS) to assist with messaging requirements for MCM 1. A CMRSWC Facebook page and Instagram account were created, to supplement CMRSWC's existing Twitter account. Weekly messages were distributed through social media to target audiences consisting of residents, developers, businesses, institutions, commercial and industrial facilities located in CMRSWC communities. Topics on ways to reduce water pollution included: proper disposal of hazardous wastes, how to prepare for winter conditions, proper car washing techniques, septic system maintenance, yard maintenance, pet waste disposal, etc.

Targeted Audience: *Businesses, institutions, commercial facilities, residents, developers*Responsible Department/Parties: *CMRSWC*

Measurable Goal(s):

By June 2021, 220 posts had been added to the CMRSWC Facebook and Instagram pages with over 2,500 impressions on Facebook and over 2,200 impression on Instagram with over 1,000 engagements. CMRSWC's twitter account had over 3,000 posts with 492,400 impressions. CMRSWC's tweets had over 2,000 engagements. CMRSWC's social media posts were shared by numerous municipalities, organizations, and the EPA.

Message Date(s): *Nov 2020 - June 2021*Message Completed for: Appendix F Requirements Appendix H Requirements Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

Social media messaging is a new service being provided to CMRSWC member communities in Year 3 and, therefore, was not previously identified in our NOI.

BMP: Proper Management of Pet Waste

Message Description and Distribution Method:

Flyer describing the adverse effects of improper disposal dog waste is handed out to residents who license their dogs. Information is also posted on the Town's website.

Targeted Audience: *Residents*

Responsible Department/Parties: *DPW and Town Clerk*

Measurable Goal(s):

Every resident that licenses their dog received the flyer.

Message Date(s): *January - April 2021*

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: Think Blue Massachusetts

Message Description and Distribution Method:

Think Blue Massachusetts "Fowl Water" video (<https://www.thinkbluemassachusetts.org>)

Advertisement on Facebook and YouTube. Video available on the Think Blue Massachusetts website.

Targeted Audience: *Businesses, institutions and commercial facilities; Residents; Developers; Industrial*

Responsible Department/Parties: *Massachusetts Statewide Municipal Stormwater Coalition*

Measurable Goal(s):

Over 9,800 social media impressions, oncluding approximately 1,065 impressions for the Spanish language video.

Message Date(s): *May 17, 2021 - June 4, 2021*

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

This is an additional message provided by the Coalition that was not originally included in our NOI that has been broadcast to our community.

BMP: Proper Use of Fertilizer

Message Description and Distribution Method:

Social media message regarding use of fertilizer.

Targeted Audience: *Residents*

Responsible Department/Parties: *DPW*

Measurable Goal(s):

777

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:

Distribution was by social media instead of a handout at during Spring Bulk Drop-Off due to Covid-19 concerns.

BMP: Proper Management of Pet Waste - Additional BMP

Message Description and Distribution Method:

Social media message "Pick Up After Your Pet!"

Targeted Audience: *Residents*

Responsible Department/Parties: *DPW*

Measurable Goal(s):

299 people reached through Facebook

Message Date(s): *March 17, 2021*

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

This was an additional message that was not included in our NOI.

[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 public meeting was held with Conservation Commission on June 16, 2021 to discuss the Town's Stormwater Management Program, progress towards goals and upcoming activities.

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

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

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

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

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

Number of SSOs identified: 0

Number of SSOs removed: 0

MS4 System Mapping

Optional: Provide additional status information regarding your map:

Initial catchment delineations were compiled and open drains were mapped during this reporting period.

Screening of Outfalls/Interconnections

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

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

<https://www.oxfordma.us/stormwater-management/pages/oxford-stormwater-management-program>

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

Number of outfalls screened: 80.00000%

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

Percent of outfalls screened: 76.00000%

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

Catchment Investigations

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

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

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0

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

We plan to conduct catchment investigations as soon as all outfalls have been screened.

IDDE Progress

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

- No illicit discharges were found
- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following website:
www.oxfordnc.gov

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

Number of illicit discharges identified: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 gallons/day

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

Total number of illicit discharges identified: 1.00000000

Total number of illicit discharges removed: 1.00000000

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

Employee Training

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

Quarterly training was conducted for employees handling hazardous materials/liquids and fuel including spill prevention and cleanup, storage and handling and facilities-related stormwater.

The Facilities Director and the DPW Project Manager received Illicit Discharge, Detection and Elimination training provided by CMRSWC.

Outfall training including field training was provided to staff conducting outfall screening.

PeopleGIS Stormwater Control and Quick Access training was provided to three employees who conduct outfall screening and catch basin inspection and cleaning.

MCM4: Construction Site Stormwater Runoff Control

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

Number of site plan reviews completed:

Number of inspections completed:

Number of enforcement actions taken:

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

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

As-built Drawings

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

Number of as-built drawings received:

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

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:

No progress was made; street design and parking lot assessments to be conducted in Year 4.

Green Infrastructure Report

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

No progress was made; green infrastructure assessment to be conducted in Year 4.

Retrofit Properties Inventory

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

No progress has been made; assessment of Town-owned properties will be conducted in 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: 942.000000^{cu}

Number of catch basins cleaned: 942.000000^{cu}

Total volume or mass of material removed from all catch basins: 419.250000^{cu} cubic yards

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

Total number of catch basins: 1492.000000^{cu}

If applicable:

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

Catch basins are monitored and frequency of cleaning is increased as necessary. In Year 4, the Town plans to conduct investigations into possible sources of sediment loading for catch basin sums that are more than 50% full.

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: 293.00000000 cubic yards
- Weight of material removed: [Select Units]

Stormwater Pollution Prevention Plan (SWPPP)

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

Number of site inspections completed: 6.00000000

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

Additional Information

Monitoring or Study Results

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

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

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

Additional Information

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

COVID-19 Impacts

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

The Catch Basin Optimization plan to meet the 50% goal requirement was not implemented due to staff schedule reduction during the COVID-19 pandemic. Catch basins continued to be cleaned during Year 3 and review of data to determine percentage full will be conducted in Year 4.

Activities Planned for Next Reporting Period

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

Yes, I agree

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

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in

connection with the dry weather screening and other relevant inspections conducted

- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings

and facilities, and vehicles and equipment; update if necessary

- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)

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

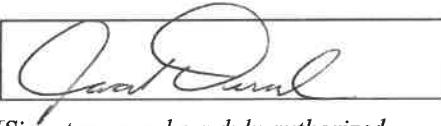
Part V: Certification of Small MS4 Annual Report 2021

40 CFR 144.32(d) Certification

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

Name: **Jared M. Duval, PE**

Title: **Director of Public Works**

Signature: 

Date: **9/24/2021**

[Signatory may be a duly authorized representative]

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

Annual Report Submission

Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.

EPA:

MassDEP:

Paper Signature:

If you did not sign electronically above, you can print the signature page by clicking the button below.

Print Signature Page

Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.

Lock Form