# Year 6 Annual Report
## Massachusetts Small MS4 General Permit
## New Permittees
## Reporting Period: July 1, 2023-June 30, 2024

***Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form. Also ensure any websites included on this form are publicly accessible***

*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, 2023 and June 30, 2024 unless otherwise requested.*

## Part I: Contact Information

Name of Municipality or Organization: University of Massachusetts Lowell

EPA NPDES Permit Number: MAR042054

**Primary MS4 Program Manager Contact Information**

Name: Glenn MacDonald Title: Ex. Director, Environmental, Health & Safety

Street Address Line 1: University of Massachusetts-Lowell

Street Address Line 2: 1 Perkins Street

City: Lowell State: MA Zip Code: 01854

Email: glenn_macdonald@uml.edu Phone Number: (978) 934-2632

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address): https://www.uml.edu/EEM/EHS/Storm-Water-Management/

Date SWMP was Last Updated: September 2024

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

A hard copy of the document may be reviewed at the Lydon Library Circulation Desk, O'Leary Library Circulation Desk, and at the Environmental, Health & Safety Department.

# Part II: Self-Assessment

*First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4.*

**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 6 Requirements

☒ Developed a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover, made it available as part of the SWMP, and:

- ◉ No updates were recommended
- ○ Updates were recommended. The anticipated date or date of completion for updates is/was:

See comment below.

☐ Developed a report assessing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist, made it available as part of the SWMP, and:

- ○ No updates were recommended
- ○ Updates were recommended. The anticipated date or date of completion for updates is/was:

UML is a non-traditional MS4 permittee and is therefore not subject to this requirement.

☒ Identified a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover

UML has identified a minimum of 5 permittee-owned properties that could be modified or retrofitted to reduce effective impervious cover. The memorandum is attached to this Annual Report.

*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:

UML is a non-traditional MS4 permittee and does not have the authority to implement its own development

requirements. UML supported the Commonwealth and City to support the development of their reports assessing current street design and parking lot guidelines and other local requirements that affect the creation of impervious cover. Reports are available from the Commonwealth and City, as appropriate.

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 publicly available website:
- ☒ Updated the outfall and interconnection inventory and priority ranking as necessary
  - ◉ The priority ranking of outfalls/interconnections is attached to the email submission
  - ○ The priority ranking of outfalls/interconnections can be found at the following website:
- ☒ Updated system map due in year 5 as necessary
- ☒ Provided training to employees involved in IDDE program within the reporting period
- ☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- ☐ All curbed roadways were swept at least once within the reporting period
- ☐ Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- ☒ Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- ☒ 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 or provide any additional details, please use the box below:

UML currently does not have an active street sweeping program. UML does not use sand for winter road maintenance operations, and annual catch basin inspections show low amounts of sediment entering and settling in catch basins each year. UML will continue to evaluate catch basin inspection results to identify whether street sweeping operations should be conducted on a regular basis in the future. The City of Lowell

conducts their own street sweeping program which encompasses the public roadways that run adjacent to UML owned and leased properties. UML periodically sweeps parking lots and garages. UML stores and disposes of street sweepings in accordance with applicable rules and regulations.

**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:

UML finalized a policy regarding pets on campus in Summer 2021, which outlines the potential negative impacts pet waste can have on stormwater quality and makes pet owners and handlers responsible for managing their own pet's waste. Students that are approved to have service or emotional support animals on campus are required to agree to this policy in writing, and to use the designated animal relief areas located on the UML east and south campuses. Maps of these relief areas are provided to pet owners during the service/ emotional support animal approval process.

UML does not have any septic systems on campus, and therefore does not provide septic system messaging to students, faculty, employees, or contractors.

**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) that encourages the proper use and disposal of grass clippings and encourages 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)

*Phosphorus Source Identification Report*

☐ Completed the Phosphorus Source Identification Report

- ○ The Phosphorus Sourchace Identification Report is attached to the email submission
- ○ The Phosphorus Source Identification Report can be found at the following website:

UML is within the City of Lowell and will be included in the City Phosphorus Source Identification Report.

*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.

- ○ No BMPs were installed
- ○ The BMP information is attached to the email submission
- ○ The BMP information can be found at the following website:

UML is in the process of updating the stormwater management system (capital improvement planning and implementation). Phosphorus removal calculations will be conducted in future permit years.

Total estimated phosphorus removed in **lbs/year** from the installed BMPs: 0

*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:

UML does not have an active street sweeping program. UML periodically sweeps their parking lots and garages.

Pet waste messaging is distributed to pet owners during the service/emotional support animal approval process.

UML does not distribute annual messages regarding proper disposal of grass clippings, use of phosphorus-free fertilizers, and leaf litter management because the UML Grounds Department conducts all lawn care activities on campus. Instead of distributing messages to students and faculty, UML educates it's Grounds Department on best management practices related to these activities to prevent the discharge of phosphorus and other pollutants from campus. UML implements a leaf litter cleanup program.

**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 to target areas with potential for high pollutant loads

- ○ The street sweeping schedule is attached to the email submission
- ○ The street sweeping schedule can be found at the following publicly available website:

☒ 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 indicate 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:

UML does not have an active street sweeping program. UML periodically sweeps their parking lots and garages.

UML maintains a catch basin cleaning optimization SOP. This SOP is incorporated as part of the UML Clean Water Best Practices Manual.

The UML Office of Sustainability and Grounds Department, within Facilities Operations and Services, re-instituted annual management of previously installed pollinator habitats. UML targeted steep hillsides and riverbank areas for pollinator gardens (4 total), and has found that the areas are significantly better at attenuating stormwater sheet flow runoff and preventing erosion than grass in the same areas. Additional shrubs were planted and pollinator gardens were installed at the ETIC building in Permit Year 6, and pollinator habitat management activities took place in Permit Year 6.

The campus launched, and certified, the UML Arboretum. The UML Arboretum is built on existing trees and green spaces, but started two new initiatives that positively impact stormwater and green infrastructure on campus. To launch the Arboretum, UML conducted its largest tree planting initiative on campus in several years by planting 33 trees and 74 shrubs across campus. In addition, campus construction standards were updated to increase the total amount of trees replanted as trees are removed for disease, damage, and/or construction.

UML installed netting at several buildings to prevent birds roosting and thus eliminating or reducing pigeon guano from accumulating on impervious surfaces. The University also implemented training and standard operating procedures for safely removing pigeon guano, to reduce the quantity of pollutants entering storm drains.

The UML Greenhouse and Urban Agriculture Farm uses all organic growing methods without use of synthetic fertilizers and pesticides. The University has planted raised berms with rhubarb to divert stormwater runoff to the existing drainage system on-site. Rainwater collected through the gutter system is funneled to an 1,800-gallon storage tank inside the greenhouse and is used to irrigate plants. Interpretive signage is located outside the greenhouse to inform the public of UML work to promote and implement sustainable stormwater management.

All leaf waste collected on campus is shredded and either used on the UML Urban Agriculture Farm or sent to Mill City Grows "Big Farm" Urban Farm location at 1001 Pawtucket Boulevard in Lowell.

UML applies fertilizers around campus four times per year. To reduce impacts to stormwater runoff quality, the University selected a product that contains 0% phosphorus, 50% organic material, and total nitrogen of approximately 3.5 pounds per 1,000 square feet.

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

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# 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? 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

- (●) Yes
- ( ) No

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

UML reevaluated its outfall/interconnection ownership in Permit Year 5, which resulted in an updated list of outfalls, interconnections, and receiving waterbodies.

UML has evaluated the "Final Massachusetts Integrated List of Waters for the Clean Water Act 2022 Reporting Cycle" and and noted that no changes have been made to the University's waterbody impairments.

# 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**: 5

*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:1A - Website Updates for General Public**

Message Description and Distribution Method:

The UML Stormwater Program webpage currently includes educational information relevant to students, faculty, the general public, businesses, industries, and contractors. Examples of topics currently covered on the web page include: What is the stormwater pollution?; Why is stormwater runoff pollution a problem?; Impaired waterbodies surrounding the campus; What causes stormwater runoff pollution?; Why is the University addressing stormwater runoff?; What is the University doing?; What can you do to help?; and Contact information for the University's Facilities Service Desk and Environmental, Health & Safety Department to report any drainage or potential pollution issues.

The stormwater web page can be found at: https://www.uml.edu/eem/ehs/storm-water-management/

Targeted Audience: Students, Faculty, Staff, General Public

Responsible Department/Parties: UML Executive Director of Environmental, Health & Safety

Measurable Goal(s):

Educate students, faculty, and the general public on ways to reduce impacts to stormwater.

Message Date(s): Ongoing

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:

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**BMP:1C - Stormwater Coordinator**

Message Description and Distribution Method:

Carl Shreder was appointed by UML as Stormwater Coordinator to serve as a point of contact for information about UML's stormwater program and volunteer opportunities. Carl's contact information in included on the UML stormwater webpage. This information will be updated annually to reflect any changes in the

Stormwater Coordinator position.

The Stormwater Coordinator's contact information can be found at: https://www.uml.edu/eem/ehs/storm-water-management/stormwater-contact.aspx.

Targeted Audience: Students, Faculty, Contractors, General Public

Responsible Department/Parties: UML Executive Director of Environmental, Health & Safety

Measurable Goal(s):

Post Stormwater Coordinator name and contact information on the UML stormwater webpage and update annually.

Message Date(s): Ongoing

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:

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**BMP:1D - Brochures/Pamphlets**

Message Description and Distribution Method:

UML finalized a policy regarding pets on campus in Summer 2021, which outlines the potential negative impacts pet waste can have on stormwater quality and makes pet owners and handlers responsible for managing their own pet's waste. Students that are approved to have a service or emotional support animal on campus are required to agree to this policy in writing, and to utilize either of the designated animal relief areas located on the UML east and south campuses. Maps of these relief areas are provided to pet owners during the service/emotional support animal approval process.

Targeted Audience: Students, Faculty, Employees, General Public

Responsible Department/Parties: UML Executive Director of Environmental, Health & Safety

Measurable Goal(s):

Publish/distribute annual message on pathogen controls (pet waste).

Message Date(s): Ongoing

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:

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**BMP:Project Discussions with Developers**

Message Description and Distribution Method:

The UML Environmental, Health & Safety staff is involved in the design meetings and construction kickoff meetings for all projects constructed on campus. The staff asks questions and addresses matters related to stormwater pollution prevention during this process.

Targeted Audience: Contractors, Businesses

Responsible Department/Parties: Environmental, Health & Safety Department

Measurable Goal(s):

Educate contractors and businesses on stormwater pollution prevention best practices during construction.

Message Date(s): Ongoing

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:

UML decided they could have more of an impact on contractor's stormwater pollution prevention considerations via involvement with design and construction meetings instead of distributing open-ended letters to contractors containing various best practices.

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**BMP:General Stormwater Educational Brochure**

Message Description and Distribution Method:

UML developed a brochure that conveys general educational stormwater awareness and pollution prevention messages. UML distributes the handout to the University community through the Office of Sustainability and has posted the handout on the UML website. https://www.uml.edu/

Targeted Audience: Students, Faculty, Employees, General Public

Responsible Department/Parties: Environmental, Health & Safety Department

Measurable Goal(s):

Educate students, faculty, employees, and the general public on ways to reduce impacts to stormwater.

Message Date(s): Ongoing

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:

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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**:

The UML SWMP is available on the University website and at the Lydon Library Circulation Desk, O'Leary Library Circulation Desk, and the Environmental Health & Safety Office.

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**:

UML established a Catch Basin Stenciling/Marking Program where University staff and student volunteers can stencil a message next to catch basins or install storm drain markers reminding people not to dump anything down the storm drains. Catch basin stenciling/marking sends a clear message to all UML employees, faculty, and students to keep trash, debris, leaf litter, and pollutants out of the storm drainage system. Currently, UML catch basins have a "no dumping" message affixed to their grate and are routinely inspected for this messaging. Ways to get involved in the UML Stenciling/Marking Program are detailed at this web page: https://www.uml.edu/EEM/EHS/Storm-Water-Management/Catch-Basin-Stenciling.aspx.

The UML Environmental, Health & Safety Department and Facilities Project Management Team interacts with the City of Lowell's Wastewater Utility Department, as necessary, to discuss compliance obligations for matters related to the review and design of all construction projects on campus having impacts on the City's sewer and water utilities.

UML hosted an Eco Fest on Earth Day in April 2024, which was used to promote environmental awareness (including stormwater awareness) and involved activities such as planting additional shrubs and seeding new pollinator gardens at the ETIC.

## 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

*Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified* ***since the effective date of the permit (July 1, 2018)****.*

Total number of SSOs identified: 0

Total number of SSOs removed: 0

**MS4 System Mapping**

Percent of Phase II map complete: 75

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

UML is in the process of reevaluating locations of stormwater treatment structures. These structures and catchment delineations will be added to the UML MS4 system map in future years coincident with capital investment project planning and execution.

**Screening of Outfalls/Interconnections**

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

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

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

Number of outfalls screened: 43

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

Percent of outfalls screened: 100

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

A total of 9 outfalls and 34 interconnections were 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.*

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

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

Number of catchment investigations completed this reporting period: 43

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

Percent of total catchments investigated: 100

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

As a new non-traditional Massachusetts MS4 Permittee, UML is not required to complete problem area catchment investigations until Permit Year 10. UML plans to perform additional work, as necessary, based on the recommendations presented in the attached investigation report.

**IDDE Progress**

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

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

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

Number of illicit discharges identified: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 gallons/day

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

Total number of illicit discharges identified: 0

Total number of illicit discharges removed: 0

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

To be conducted in future permit years upon verification of an illicit discharge.

**Employee Training**

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

UML implements a hybrid training program that includes both online and in-person training. In PY6, UML added an online platform for stormwater training. This improvement allows stormwater training to be administered individually and on demand, and allows UML staff 24/7/365 access to stormwater training materials. In addition, UML provided in person stormwater training to new staff members during Permit Year 6. Individual training records for UML staff care available through the UML Stormwater Coordinator.

## 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: 0

Number of inspections completed: 0

Number of enforcement actions taken: 0

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

UML is subject to State regulations and does not have the authority to develop ordinances for development on campus.

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

### Ordinance or Regulatory Mechanism

Date ordinance was completed: N/A

Website of ordinance or regulatory mechanism: UML does not have the authority to prepare its own development requirements, as all construction on campus is managed by the State.

### As-built Drawings

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

Number of as-built drawings received: 0

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

The University does not have the authority to prepare its own development requirements, as all construction

on campus is managed by the State.

## 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: 180

Number of catch basins cleaned: 180

Total volume or weight of material removed from all catch basins: 20 tons

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

Total number of catch basins: 180

*If applicable:*

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

If necessary, schedule adjustments will be made to prioritize catch basins located at known problem areas (low spots) and near construction activities (roadway construction, residential, commercial, or industrial development). If inspections and maintenance activities indicate excessive sediment and debris loading (i.e., the sump is more than 50% full during two consecutive routing inspections/cleanings), these catch basins will be marked for frequent cleaning.

### 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: [Select Units]

○ 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: 0

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

UML has reviewed the need to develop and implement SWPPPs at UML-owned and operated facilities in accordance with Permit Part 2.3.7.b. These facilities included their maintenance garages at 8 James Street and 1485 Middlesex Street in Lowell. UML determined that SWPPPs are not needed since these facilities conduct vehicle servicing indoors and do not discharge pollutants from these activities to the MS4 or waterbodies.

During Permit Year 4, the University continued updating campus maps for Spill Pollution Control and Countermeasure (SPCC) planning. The UML SPCC plan was updated and identifies oil storage locations on campus, the types of containment systems in place at each location, and best practices for protecting stormwater. UML will maintain the SPCC Plan when necessary if changes are made to onsite oil storage.

# 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:

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**Additional Information**

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.

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**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 7 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

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
- Continue public education and outreach program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Sweep all curbed roadways at least once within the reporting period
- Annual training to employees involved in IDDE program
- Clean catch basins in accordance with catch basin cleaning procedures to ensure that no catch basin is greater than 50% full
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspections of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Implement 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
- Enclose all road salt storage piles or facilities and implement 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

Provide any additional details on activities planned for permit year 7 below:

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# Part VI: Certification of Small MS4 Annual Report 2024

**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.

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|---|---|---|---|
| Name: | Thomas Miliano | Title: | Assoc. Vice Chancellor |
| Signature: |  | Date: | 9/26/24 |

*[Signatory may be a duly authorized representative]*