THE
UNIVERSITY
OF RHODE ISLAND
FACILITIES OPERATIONS
Sherman Building, Kingston, RI 02881 USA p: 401.874.2723 f: 401.874.2329 www.uri.edu/facilities

THINK BIG WE DO℠

March 7, 2024

Jennifer Stout
Rhode Island Department of Environmental Management
RIPDES Permitting Program/Office of Water Resources
235 Promenade Street
Providence, Rhode Island 02908

Re: Draft 2023 RIPDES Small MS4 Annual Report – RIPDES Permit No. RIR040019

Dear Ms. Stout:

Enclosed please find the draft 2023 RIPDES Small MS4 Annual Report for the University of Rhode Island. Public notice of the availability of the draft report for public review appeared in the most recent edition of The Good 5¢ Cigar (March 7, 2024). As noted in the public notice announcement, the draft report will be posted to the URI website at https://web.ur.edu/facilities/utilities.

Please let me know if you have questions or comments regarding any of the information provided within this report. You can reach me at (401) 874-2448 or at alharvey@uri.edu.

Sincerely,

Angela Harvey, MSE, MPA
Manager, Utilities and Environmental Compliance
Facilities Operations
University of Rhode Island

cc: Robert Bozikoswki, URI

Encl.

RHODE ISLAND DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
Office of Water Resources

DEM USE ONLY

Date Received _____

RIPDES SMALL MS4 ANNUAL REPORT

GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040000

REPORTING PERIOD: ☒ **YEAR 20**

Jan 2023-Dec 2023

OPERATOR OF MS4

Name: University of Rhode Island			
Mailing Address: 60 Tootell Road			
City: Kingston	State: RI	Zip: 02881	Phone: (401) 677-9530
Contact Person: Angela Harvey	Title: Manager, Utilities & Environmental Compliance		
	Email: alharvey@uri.edu		
Legal status (circle one): PRI - Private PUB - Public BPP - Public/Private (STA - State) FED – Federal Other (please specify):			

OWNER OF MS4 (if different from OPERATOR)

Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:	Title:		
	Email:		

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the 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.

Print Name Angela Harvey

Print Title Manager, Utilities & Environmental Compliance

Signature _____ Date: 3/7/2024

MINIMUM CONTROL MEASURE #1:
PUBLIC EDUCATION AND OUTREACH (Part IV.B.1 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities, topics addressed, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate the rationale for choosing the education activity to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Angela Harvey -- Manager, Utilities & Environmental Compliance

Phone: 401-874-2448 **Email:** alharvey@uri.edu

IV.B.1.b.1	Use the space below to provide a General Summary of activities implemented to educate your community on how to reduce stormwater pollution. For TMDL affected areas, with stormwater associated pollutants of concern, indicate rationale for choosing the education activity. List materials used for public education and topics addressed. Summarize implementation status and discuss if the activity is appropriate and effective.

The University requires certain staff employees to attend training sessions annually for the proper handling of contaminants and the proper disposal of contaminants. All employees are reminded that nothing can be disposed of into the storm drainage system. These safety sessions and presentations are conducted by the URI Public Safety Department, with participation by the Stormwater Coordinator. The RI Stormwater Solutions website, developed by the URI Cooperative Extension, was transferred to RIDEM prior to 2022 where it continues to provide educational information on sources and impacts of stormwater, as well as steps that citizens and homeowners can take to reduce impacts such as reducing fertilizer use, keeping oil out of storm drains, using water wisely, cleaning up pet waste, and recycling rainwater. Links to the website (https://dem.ri.gov/environmental-protection-bureau/water-resources/outreach-education/ri-stormwater-solutions-water-2) are available on other URI sites where the subject matter deems it appropriate. URI continues to work to mitigate elevated concentrations of sodium and chloride in its water supply, stressing a deicing salt best management policy to educate staff and implement techniques to use salt in ways that lessen the impact on campus stormwater systems and the groundwater aquifer. In addition, the MS4 coordinator meets annually with those responsible for snow removal to ensure adherence to the RIDEM snow removal policy. Finally, the University has been conducting an assessment of objectives and resources for supporting the Sustainability Program, which historically plays a supporting role in community outreach.

IV.B.1.b.2	Use the space below to provide a general summary of how the public education program was used to educate the community on how to become involved in the municipal or statewide stormwater program. Describe partnerships with governmental and non-governmental agencies used to involve your community.

For 2023, an ongoing contract for energy savings included a behavior change measure that covered a range of environmental behaviors. Students were the target audience for this measure, the goal of which was to increase compliance with the proper disposal of trash and recycling materials. Orientation programs were held to target new and returning students, covering conservation and environmental protection topics. The Utilities Office staffed a Stormwater Booth to support 2023 Earth Day activities. The booth, which featured a recycling toss game, drew in many students who were interested in the game and learned about waterway protection while waiting for their turn to play.

URI continues to maintain and use the Rhode Island Stormwater Management and Treatment Demonstration Facility (RI SDF) to evaluate BMP structures operating under local environmental conditions against manufacturer claims, although no structures were evaluated in 2023.

In 2022 URI developed a stormwater website that would be directly accessible through the Sustainability website. This website will feature pertinent information on community involvement in the URI and statewide stormwater program. Our goal is to have the website available to the public in 2024.

Check all topics that were included in the Public Education and Outreach program during this reporting period. For each of the topics selected, provide:
Target Audience(s): Public Employees, Residents, General Public, Businesses, Industries, Restaurants, Contractors, Developers, Agriculture, Other (describe);
Target Pollutant(s): (e.g. pet waste, fertilizers, Total Suspended Solids, etc.);
Strategies/Media: Direct Mailings, List Servs, Kiosks or Other Displays, Newspaper Ads or Articles, Public Events or Presentations, School Programs, Printed Materials, Direct Trainings, Videos, Webpage, Other (describe)

Topic	Target Audience(s)	Target Pollutant(s)	Strategies/Media
x Construction Sites	Contractors, URI staff	Erosion and water quality	Meeting with contractors, subs, and URI PMs; submittal of weekly inspection reports
x Pesticide and Fertilizer Application	URI staff	Pesticides, herbicides and fertilizers	Safety Data Sheets, Direct, meetings/discussions with key staff
x General Stormwater Management Info	URI community	Watershed protection	Websites (NEMO, RI Stormwater Solutions)
x Pet Waste Management	URI community	Bacterial pollution	Websites
x Household Hazardous Waste Disposal	URI staff	Hazardous materials	SPCC management strategies
x Recycling	URI community	Conservations of resources, pollution prevention	Facilities, NEMO, RI Stormwater Solutions websites; participation in Earth Day
x Illicit Discharge Detection and Elimination	URI staff	All prohibited	Direct training
☐ Riparian Corridor Protection/Restoration			
x Infrastructure Maintenance	URI staff	Sediments	Annual inspections, cleaning, repair
x Trash Management	URI staff	Bulk waste and recycling	Direct training
x Smart Growth	URI staff	Increased runoff	Management by URI PMs
x Vehicle Washing	URI staff, contractors	All prohibited	Direct trainings
x Storm Drain Marking	URI staff	All prohibited	Identification of key locations via mapping
x Water Conservation	URI community	Runoff	Websites
x Green Infrastructure/Better Site Design/LID	URI staff	Increased runoff	Websites
x Wetland Protection	URI community	Watershed protection	Websites; staff training
x Other: Implementation of the Oil Pollution Control Regulations	URI staff	Petroleum products	Monthly inspections of ASTs containing fuel oil

Additional Measurable Goals and Activities

Please list all stormwater training attended by your staff during the 2023 calendar year and list the name(s) and position of all staff who attended the training.

Trainings: USEPA Construction Inspection Training Course (underway)

Attending name of staff and title: Franklin Cruz, student assistant

MINIMUM CONTROL MEASURE #2:
PUBLIC INVOLVEMENT/PARTICIPATION (Part IV.B.2 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as types of activities and audiences/groups engaged. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Angela Harvey -- Manager, Utilities & Environmental Compliance

Phone: 401-874-2448 **Email:** alharvey@uri.edu

IV.B.2.b.2.ii	Use the space below to describe audiences targeted for the public involvement minimum measure, include a description of the groups engaged, and activities implemented and if a particular pollutant(s) was targeted. If addressing TMDL requirements indicate how the audience(s) and/or activity address the pollutant(s) of concern. Name of person(s) and/or parties responsible for implementation of activities identified. Assess the effectiveness of BMP and measurable goal.

Audiences targeted for public participation typically include students living on campus, especially the freshman students new to the campus, as well as faculty and support staff. Support staff members are required to attend periodic review sessions on the prohibition of illicit discharges into the storm drainage system and the proper handling and disposal of all materials. The EHS Office leads SPCC training, with participation by the Stormwater Coordinator to address the specific requirements of the stormwater permit.

Participation by staff in fulfilling the requirements of Minimum Control Measure #2 is via the implementation of proper procedures daily in the performance of assigned tasks. Refresher training is provided in cases where inappropriate waste management has been observed or where there is an increased potential for impacts to stormwater systems.

Student participation during 2023 included participation by students assigned to the Utilities Office. The students received extensive training in stormwater-related issues and tasks, with students participating in the following critical activities under the supervision of the Stormwater Coordinator:
1. Outfall inspections.
2. BMP inspections.
3. Catch basin inspections
4. Research to support program activities

Opportunities provided for public participation in implementation, development, evaluation, and improvement of the Stormwater Management Program Plan (SWMPP) during this reporting period. Check all that apply:

- ☒ Cleanup Events
- ☐ Comments on SWMPP Received
- ☐ Community Hotlines
- ☐ Community Meetings
- ☐ Other (describe)
- ☐ Storm Drain Markings
- ☐ Stakeholder Meetings
- ☐ Volunteer Monitoring
- ☐ Plantings

Additional Measurable Goals and Activities

SECTION II. Public Notice Information (Parts IV.G.2.h and IV.G.2.i)

Was the availability of this Annual Report and the Stormwater Management Program Plan (SWMPP) announced via public notice? ☒ YES ☐ NO	If YES, Date of Public Notice: 3/7/2024 (copy attached)
How was public notified: ☐ List-Serve (Enter # of names in List: _____) ☐ TV/Radio Notices ☒ Website ☒ Newspaper Advertising ☐ Town Hall posting ☐ Other: Enter Web Page URL: ___ https://web.uri.edu/facilities/utilities/___	
Was public meeting held? ☐ YES ☒ NO Date:	Where:
Summary of public comments received:	
Planned responses or changes to the program:	

MINIMUM CONTROL MEASURE #3:
ILLICIT DISCHARGE DETECTION AND ELIMINATION (Part IV.B.3 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS

Include information relevant to the implementation of each measurable goal, such as activities implemented (when reporting tracked and eliminated illicit discharges, please explain the rationale for targeting the illicit discharge) to comply with on-going requirements, and illicit discharge public education activities, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Angela Harvey -- Manager, Utilities and Environmental Compliance

Phone: 401-874-2448 **Email:** alharvey@uri.edu

Has *this person* received training on Illicit Discharge Detection and Elimination (IDDE)? Yes

If yes, when and where? BS Civil Engineering 2007 URI, MS Civil & Environmental Engineering 2010 URI

If no, who *is* trained on IDDE?

IV.B.3.b.1:	If the outfall map was not completed, use the space below to indicate reasons why, proposed schedule for completion of requirement and person(s)/ Department responsible for completion. (The Department recommends electronic submission of updated EXCEL Tables if this information has been amended.) **Number of Outfalls Mapped within regulated area:** 77 **Percent Complete:** 100% **If 100% Complete, Provide Date of Completion:** November 2021, ongoing revisions as required
Outfall Location Tables were included with the Year 5 report. The outfall map was updated in 2013 and was submitted to DEM as part of the 2013 report and again updated in 2020 and submitted as part of the 2020 report. The Utilities Office used the original information from our consultant for the initial outfall map. From 2012 through 2020 the Utilities Office expanded the list from field observations during inspections, new construction, and review of plans. The list was refined again in 2022 to better differentiate between outfalls to bodies of water/wetlands via point or non-point discharges, and daylighted pipes or other structures that are simply discharging to BMPs for infiltration or conveyance into another portion of URI's stormwater system. Those that fell into the second category were incorporated into the BMP inventory list for 2023.	
IV.B.3.b.2	Indicate if your MS4 chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2023 calendar year.
The University Utilities Office implemented the tagging of outfalls under the IDDE minimum measure requirements and completed the tagging in 2008. Existing outfalls were subsequently geolocated and entered into a GIS database. New outfalls are tagged as they are identified and added to that database.	
IV.B.3.b.3	Use the space below to provide a summary of the implementation of recording of system additional elements (catch basins, manholes, and/or pipes). Indicate if the activity was implemented as a result of the tracing of illicit discharges, new MS4 construction projects, and inspection of catch basins required under the IDDE and Pollution Prevention and Good Housekeeping Minimum Measures, and/or as a result of TMDL related requirements and/or investigations. Assess effectiveness of the program minimizing water quality impacts.
The Kingston Campus drainage system and its records were most recently updated during 2020. The entire drainage system is mapped in GIS and is updated upon completion of project either by physical inspection and/or following review of as-built plans. Projects that commenced after 2020 are updated as completed if simple in nature, or after receipt of as-built plans. Alterations detected during routine inspections are incorporated into the GIS database and likewise GIS mapping. We believe that this is an effective management strategy in reducing potential impacts to water quality.	
IV.B.3.b.4	Indicate if the IDDE ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** N/A If the Ordinance was amended in 2023, please indicate why changes were necessary.

The University of Rhode Island did not develop this ordinance in the 2023 calendar year. The University owns the entire subject area and controls all activities on the property. The University is a state agency that has policies in place to ensure proper compliance to prohibit and enforce illicit discharges to the MS4. Policy enforcement is through a combination of inspections by the Public Safety and Facilities Operations departments. The SR&M department receives, responds, investigates, and files all incidents involving suspected hazmat and other illicit discharge activities that are reported on campus. Investigations, corrective actions, and enforcement activities are monitored and implemented through this office. URI also conducts annual inspections throughout the campus for potential illicit discharges into the storm and wastewater systems. We have developed a Spill Prevention and Containment Plan as required by the EPA that is designed to reduce the potential for illicit discharges into the sanitary and stormwater systems. The SPCC was updated in 2022 and reviewed annually with participation by the URI Stormwater Coordinator.

IV.B.3.b.5.ii, iii, iv, & v	Use the space below to provide a summary of the implementation of procedures for receipt and consideration of complaints, tracing the source of an illicit discharge, removing the source of the illicit discharge and program evaluation and assessment as a result of removing sources of illicit discharges. Identify person(s) / Department and/or parties responsible for the implementation of this requirement.

All complaints of any nature are routed through the University's Control Center. The Control Center logs each call and then notifies the appropriate department responsible for the complaint. If the complaint is relative to an illicit discharge to the storm system, the URI Utilities Office is responsible for investigating, which includes tracing the origin of the illicit discharge, ensuring that the illicit discharge is stopped immediately, and assessing if other preventative measures need to be implemented. De minimis conditions identified during routine inspections are addressed immediately in-house, with subsequent reinspection to confirm that conditions have been corrected. Conditions beyond de minimis in 2023 were as follows:
*On June 22, 2023, the Rhode Island Department of Environmental Management Office of Compliance and Inspection inspected the grounds surrounding a grease dumpster located in a rear parking lot of the Emporium, a privately owned property located adjacent to the URI Kingston Campus. While stormwater structures in this area are not owned by the campus, they discharge into the university's MS4 system. Visual observations included an area of cooking grease staining covering an area of approximately 100 feet by 50 feet, with grease visible "entering into a catch basin within the parking lot." RIDEM contacted the property owner, who responded to RIDEM's informal request that the matter be addressed in such as way as to prevent the recurrence of the water pollution violation. The property owner agreed to address the matter with better oversight on the part of custodial staff and more frequent pickups by the vendor. URI's Utilities Office discussed the situation with the Town of South Kingstown, who agreed that ownership activities can also be regulated through Town licensing mechanisms. Subsequent visual observation of downstream nearby catch basins located on URI property yielded no visual evidence of impacts from the grease release.

IV.B.3.b.5.vi	Use the space below to provide summary of implementation of catch basin and manhole inspections for illicit connections and non-stormwater discharges. If the required measurable goal of inspecting all catch basins and manholes for this purpose was not accomplished, please indicate reasons why, the proposed schedule of completion and identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement. The operator must keep records of all inspections and corrective actions required and completed. **Number of Catch Basins and Manholes Inspected for illicit connections/IDDE:** 814 (excluding inaccessible) **Percent Complete:** 97 % **Date of Completion:** 11/29/2023

During 2023, the URI Utilities Office inspected all catch basins that were accessible throughout the Kingston Campus for illicit connections and non-stormwater discharges. Approximately 3% of the drainage structures were not accessible due primarily due to construction projects. The inspections were performed in conjunction with the surveying of the drainage system for inventory of the system and noting the condition of the structures and quantity of sediment contained within each basin. Catch basins with structural deficiencies creating the potential for system failure, injury to persons, or property damage were repaired. Those requiring minor repairs will be scheduled for repair in 2024 based on the level of priority and funding.

IV.B.3.b.5.vii	If dry weather surveys including field screening for non-stormwater flows and field tests of selected parameters and bacteria were not completed, indicate reasons why, proposed schedule for the completion of this measurable goal and person(s) / Department and/or parties for the completion of this requirement. Evaluate effectiveness of the implementation of this requirement. **The results of the dry weather survey investigations should be submitted to RIDEM electronically, if not already submitted or if revised since 2009, in the RIDEM-provided EXCEL Tables and should include visual observations for all outfalls during both the high and low water table timeframes, as well as sampling results for those outfalls with flow. The EXCEL Tables must include a report of all outfalls and indicate the presence or absence of dry weather discharges.** **Number of Outfalls Surveyed Jan-Apr:** 77 **Number of Outfalls Surveyed Jul-Oct:** 77 **Percent Complete:** 100% **Date of Completion:** 10/13/2023

The University collected four routine water samples from four outfalls on 8/29/2023. The origin of the flow in all cases was traced back to groundwater or natural flow from wet areas. The water quality testing was performed by ESS Labs. Sampling results are listed in the 2023 Dry Weather Outfall Inspections spreadsheets.

On 3/10/2023, URI resampled Outfall 042 in response to elevated 2022 fecal coliform numbers at this location. The results for the 3/10/2023 sampling were consistent with the results of routine sampling conducted in previous years. Based on this outcome, we concluded that additional assessment of the elevated 2022 value was not indicated.

IV.B.3.b.7	Use the space below to provide a description of efforts and actions taken as a result of for coordinating with other physically interconnected MS4s, including State and federally owned or operated MS4s, when illicit discharges were detected or reported. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate the effectiveness of the implementation of this requirement.

The University remains concerned about the potential for illicit discharges to our system given the condition of contributing properties not owned by the University. Of immediate concern is the interconnection located along Fortin Road that exists between the University of Rhode Island and South Kingstown-owned infrastructure crossing privately owned property identified as "The Emporium." Based on visual observation from publicly owned rights of way, URI believes that contributing properties, which include the poorly maintained Emporium property, may not be adequately maintaining their infrastructure, including catch basins and contributing areas, and potentially pose a threat to the quality of stormwater entering URI's stormwater system. To this end, URI is working with the Town of South Kingstown to assist with enforcement.

To illustrate this point, we refer to the incident discussed in Section IV.B.3.b.5.ii, iii, iv, & v of this report. Mitigating the potential impacts of these private properties on URI's system remains a primary program goal going into 2024. However, given that URI has no authority over the operations on these properties, URI must and will rely on the assistance of the Town of South Kingstown, which has certain licensing authority over the owners of these private properties, and RIDEM's Office of Compliance and Inspection, with its authority to enforce the state and federal water protection requirements.

IV.B.3.b.8	Use the space below to provide a description of efforts and actions taken for the referral to RIDEM of non-stormwater discharges not authorized in accordance to Part I.B.3 of this permit or another appropriate RIPDES permit, which the operator has deemed appropriate to continue discharging to the MS4, for consideration of an appropriate permit. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.

Refer to the incident discussed in Section IV.B.3.b.5.ii, iii, iv, & v of this report.

IV.B.3.b.9	Use the space below to provide a description of efforts and actions taken to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, as well as allowable non-stormwater discharges identified as significant contributors of pollutants. Include a description on how this activity was coordinated with the public education minimum measure and the pollution prevention/good housekeeping minimum measure programs. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.

All of the University's Facility Operations personnel must attend periodic training on identifying the materials to which the employees are exposed, spill prevention plans, spill control procedures, and the proper means of material disposal. The University's Public Safety Department conducts training in proper disposal of general waste and hazardous waste. All employees working with the waste stream are required to attend refresher courses. Training includes a module to reinforce the fact that dumping anything down a storm drain is a violation of the law and employees could face disciplinary action for ignoring this requirement. Staff employees have been trained to comply with spill control procedures and the proper disposal of waste. All contractors working on campus are required per contract to properly dispose of all waste material and are allowed only permitted discharges into the storm drainage system. The University's Utilities Office, the Public Safety Department, and the Office of Capital Projects are tasked with implementing and monitoring these activities. Given the small number of reports we receive each year, we conclude that our implementation of this requirement has been effective but continue to stress the importance of following proper procedures when working with various materials.

Additional Measurable Goals and Activities

SECTION II.A Other Reporting Requirements - Illicit Discharge Investigation and System Mapping (Part IV.G.2.m)

# of Illicit Discharges Identified in 2023: 1	# of Illicit Discharges Tracked in 2023: 1
# of Illicit Discharges Eliminated in 2023: 1	# of Complaints Received: 0
# of Complaints Investigated: 0	# of Violations Issued: 0
# of Violations Resolved: 0	# of Unresolved Violations Referred to RIDEM: 0
Total # of Illicit Discharges Identified to Date (since 2003): 12	Total # of Illicit Discharges remaining unresolved at the end of 2023: 0

Summary of Enforcement Actions:

Refer to the incident discussed in Section IV.B.3.b.5.ii, iii, iv, & v of this report.

Total # of Outfalls identified and mapped to date: 77

Total # of Interconnections with other MS4s identified and mapped to date: 2

Extent to which the MS4 system has been mapped (% complete): 100

Identify how the following components of the MS4 system have been mapped:	Not mapped	GIS	Auto CAD	Paper	Other (please specify)
Catch basins	☐	☒	☐	☐	☐
Manholes	☐	☒	☐	☐	☐
Pipes, ditches, and other conduits	☐	☒	☐	☐	☐
Flow direction and connectivity	☐	☒	☐	☐	☐
Interconnections with other regulated MS4s	☐	☒	☐	☐	☐
MS4-owned stormwater controls (BMPs, not including catch basins or manholes)	☐	☒	☐	☐	☐
Delineation of outfall catchment/drainage areas	☐	☒	☐	☐	☐

SECTION II.B Interconnections (Parts IV.G.2.k and IV.G.2.l)

Interconnection:	Date Found:	Location:	Name of MS4:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
24" Storm Drain	2-8-11	Briar Lane	South Kingstown	Wetlands south of Briar Lane	Agreed to notify SK Engineer of any issues
12" Storm Drain	2-8-11	Fortin Road	South Kingstown	2 Catch Basins on Fortin Road	Agreed to notify SK Engineer of any issues. Refer

MINIMUM CONTROL MEASURE #4:
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL
(Part IV.B.4 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Angela Harvey -- Manager, Utilities & Environmental Compliance

Phone: 401-874-2448 **Email:** alharvey@uri.edu

IV.B.4.b.1	Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** N/A If the Ordinance was amended in 2023, please indicate why changes were necessary and provide references to the amended portions of the local codes/ordinances.

The University does not have a mechanism to develop ordinances. The University owns all of the subject area and controls all activities on its properties. The mechanism to ensure proper erosion and sediment controls and control of other wastes is our “General Plans and Specifications” developed for and under the direction of the Office of Capital Projects by an A/E firm. Under Division 2, Site Construction, we require erosion and sediment control as well as the control of other wastes. These requirements are site-specific and are developed by the A/E firm for each project. The requirements are enforced and managed by the project manager of each construction project. If the requirements are not met, we impose corrective actions to bring the project back into compliance. Failure to comply with the contract requirements results in a breach of contract and is dealt with according to contract law.

IV.B.4.b.6	Use the space below to describe actions taken as a result of receipt and consideration of information submitted by the public.

Information from the public would be documented and evaluated by the University with a response provided after the evaluation. In 2023 the University did not receive any information or requests for information from the public.

IV.B.4.b.8	Use the space below to describe activities and actions taken as a result of referring to the State non-compliant construction site operators. The operator may rely on the Department for assistance in enforcing the provisions of the RIPDES General Permit for Stormwater Discharges Associated with Construction Activity to the MS4 if the operator of the construction site fails to comply with the local and State requirements of the permit and the non-compliance results or has the potential to result in significant adverse environmental impacts.

The University did not have any referrals to the State for assistance in enforcing any part of RIPDES General Permit for Storm Water Discharge Associated with Construction Activity to this MS4 in 2023.

Additional Measurable Goals and Activities

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 20 (2023), Part IV.B.4.b.2: Issuance of permits and/or implementation of policies and procedures for all construction projects resulting in land disturbance of greater than 1 acre. **Part IV.B.4.b.4:** Review 100% of plans and SWPPPs/SESC Plans for construction projects resulting in land disturbance of 1-5 acres, not reviewed by other State programs, must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

# of Construction Applications Received: 0 # of Construction Reviews Completed: 1 # of Permits/Authorizations Issued: 1
Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. Application status: *RIR102405, Fine Arts: Permit was issued by RIDEM on 3/29/2023 following application review and revision by URI. Identify person(s) /Department and/or parties responsible for the implementation of this requirement: Angela Harvey – Manager, Utilities and Environmental Compliance, Utilities Department Ken Burke – Assistant Director of Capital Projects Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained": Angela Harvey – BS Civil Engineering 2007 URI, MS Civil & Environmental Engineering 2010 URI; USEPA Construction Inspection Training Course Ken Burke –Rhode Island registered Professional Engineer We believe the program is effective given that URI maintains full oversight of and participation in projects on URI property. Likewise, any concerns raised by the community at large may be directly addressed by the University, assuring an acceptable outcome.

SECTION II.B - Erosion and Sediment Control Inspections during Year 20 (2023), Parts IV.G.2.n and IV.B.4.b.7: Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4. (The program must include two inspections of all construction sites, first inspection to be conducted during construction for compliance of the Erosion and Sediment controls at the site, the second to be conducted after the final stabilization of the site.) Inspections must be conducted by adequately trained personnel.

# of Active Construction Projects: 3	
# of Site Inspections: 0[A]	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Projects underway: Project RIR102111, Plains Road Lot – inspection as per Parts IV.G.2.n and IV.B.4.b.7 conducted in 2022. Project DOA Fuel depot – inspection as per Parts IV.G.2.n and IV.B.4.b.7 conducted in 2022. Project RIR102405, Fine Arts – inspection as per Parts IV.G.2.n and IV.B.4.b.7 to be conducted in spring 2024. [A]Parts IV.G.2.n and IV.B.4.b.7 inspections are required once during construction. Nothwithstanding these requirements, URI requires weekly erosion and sediment control inspections by a designated member of the construction project. Deficiencies are required to be corrected upon identification, and the URI Office of Capital Projects ensures that the requirement for continuous controls are being met over the course of construction as per the terms of project stormwater permit requirements. Summary of Enforcement Actions, include an evaluation of the effectiveness of the program. None Identify person(s) /Department and/or parties responsible for the implementation of this requirement: Angela Harvey – Manager, Utilities and Environmental Compliance, Utilities Department Ken Burke – Assistant Director of Capital Projects Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained": Angela Harvey – BS Civil Engineering 2007 URI, MS Civil & Environmental Engineering 2010 URI; USEPA Construction Inspection Training Course (Fall 2022) Ken Burke –Rhode Island registered Professional Engineer	

MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REVELOPMENT
(Part IV.B.5 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints, etc. Please indicate if any projects have incorporated the use of Low Impact Development techniques. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Angela Harvey -- Manager, Utilities & Environmental Compliance

Phone: 401-874-2448 **Email:** alharvey@uri.edu

IV.B.5.b.5	Use the space below to describe activities and actions taken to coordinate with existing State programs requiring post-construction stormwater management.
Long term BMP maintenance schedules are required to be included as part of the approval process for new development. Maintenance schedules are developed in accordance to the Rhode Island Stormwater design and Installation Standards Manual.	
IV.B.5.b.6	Use the space below to describe actions taken for the referral to RIDEM of new discharges of stormwater associated with industrial activity as defined in §1.4(A)(111) in the *Regulations for the Rhode Island Pollutant Discharge Elimination System* (RIPDES Regulations) (the operator must implement procedures to identify new activities that require permitting, notify RIDEM, and refer facilities with new stormwater discharges associated with industrial activity to ensure that facilities will obtain the proper permits).
There was no new industrial activity at this MS4 in 2023. Therefore, there were no referrals to the State for any new discharges of stormwater associated with industrial activity.	
IV.B.5.b.9	Indicate if the Post-Construction Runoff from New Development and Redevelopment Ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** N/A If the Ordinance was amended in 2023, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 *RI Stormwater Design and Installation Standards Manual*, and provide references to the amended portions of the local codes/ordinances.
The Post-Construction Runoff from New Development and Redevelopment Ordinance was not developed. The University does not have a mechanism to develop ordinances. The University owns the subject area and controls all activities on its property. The mechanism to ensure proper post construction erosion and sediment controls and control of other wastes post construction is also our “General Plans and Specifications” developed for and under the direction of the Office of Capital Projects by an A/E firm. Under Division 2, Site Construction, we require erosion and sediment control as well as the control of other wastes. Post construction requirements are included in the storm water prevention plans developed for each project by the A/E firm. The requirements are enforced and managed by the project manager of each construction project in conjunction with our own certified inspector. If the requirements are not met, we impose corrective actions in order to bring the project back into compliance. Failure to comply with the contract requirements results in a breach of contract and is dealt with according to contract law.	
IV.B.5.b.12	Use the space below to describe activities and actions taken to identify existing stormwater structural BMPs discharging to the MS4 with a goal of ensuring long term O&M of the BMPs.

A list of BMPs was formulated in the Drainage Master Plan of 2006. In 2008, the list of BMPs was updated to include new BMPs installed after 2006. The procedure to add new BMPs and delete the BMP's removed during new construction is an annual task for the Utilities Office. The Utilities Office updates the maintenance requirements for each new BMP. Each year the University evaluates and updates this list as new work is completed on campus. In 2023, the total number of BMPs was adjusted to include certain daylighting pipes that were previously identified as outfalls vs. pipes that discharge to BMP structures. Given the inclusion of the new pervious parking lot located at the southeast corner of Plains Road and West Alumni, the BMP count now stands at 124.
Additional Measurable Goals and Activities

SECTION II.A. - Plan and SWPPP/SWMP Reviews during Year 20 (2023), Part IV.B.5.b.4: Review 100% of post-construction BMPs for the control of stormwater runoff from new development and redevelopment projects that result in discharges to the MS4 which incorporates consideration of potential water quality impacts (the program requires reviewing 100% of plans for development projects greater than 1 acre, not reviewed by other State programs). Plan reviews must be conducted by adequately trained personnel.

# of Post-Construction Applications Received: # of Post-Construction Reviews Completed: # of Permits/Authorizations Issued:
This section N/A.

SECTION II.B. - Post Construction Inspections during Year 20 (2023), Parts IV.G.2.o and IV.B.5.b.10 - Proper Installation of Structural BMPs: Inspection of BMPs, to ensure these are constructed in accordance with the approved plans (the program must include inspection of 100% of all development greater than one acre within the regulated areas that result in discharges to the MS4 regardless of whom performs the review). Inspections must be conducted by adequately trained personnel.

# of Active Construction Projects: 3	# of Construction Projects Completed: 1
# of Site Inspections for proper Installation of BMPs: 0	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0

Summary of Reviews and Findings, include an evaluation of the effectiveness of the program.

Project DOA Fuel depot – project completed 9/1/2023. Capital Projects reports no significant post-construction findings. Final inspection under Parts IV.G.2.o and IV.B.5.b.10 to be conducted spring 2024.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement:
Angela Harvey – Manager, Utilities and Environmental Compliance, Utilities Department
Ken Burke – Assistant Director of Capital Projects
Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained":
Angela Harvey – BS Civil Engineering 2007 URI, MS Civil & Environmental Engineering 2010 URI; USEPA Construction Inspection Training Course
Ken Burke –Rhode Island registered Professional Engineer

SECTION II.C. - Post Construction Inspections during Year 20 (2023), Parts IV.G.2.p and IV.B.5.b.11 - Proper Operation and Maintenance of Structural BMPs: Describe activities and actions taken to track required Operations and Maintenance (O&M) actions for site inspections and enforcement of the O&M of structural BMPs. Tracking of required O&M actions for site inspections and enforcement of the O&M of structural BMPs.

# of Site Inspections for proper O&M of BMPs: 1 per BMP per year	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0

Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts.

None required.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement:
Angela Harvey – Utilities Office

Strategies for requiring the use of non-structural Low Impact Development (LID) site design practices and techniques into stormwater management designs for new and redevelopment projects, check all that apply in your municipality/MS4:

☐ None
☐ Ordinances or by-laws requiring LID standards (e.g. reduced road widths, % conservation land, etc.)
☐ Ordinances or by-laws requiring LID design at conceptual review (i.e., Pre-application and/or Master Plan) stages for municipal review prior to plans being engineered.
☐ Ordinances or by-laws requiring LID standards only in impaired waterbody drainage areas
☐ Local development regulations requiring use of LID to the maximum extent practicable
☐ LID Guidance available in written form
☐ LID Guidance available at pre-application meetings
☒ Other strategies to ensure incorporation of LID to the maximum extent practicable, describe:

For internal projects, LID is a standard of the URI Office of Capital Planning. This is an effective strategy given that URI owns all BMPs associated with the University's MS4 system.

Person(s)/Department responsible for reviewing submissions for LID:
Generally, the URI Capital Projects Group is the department responsible for reviewing submissions for LID.
Person(s)/Department/Board responsible for approving submissions for LID at Preliminary and/or Final Review, if applicable:
Ken Burke – Assistant Director of Capital Projects

Are you aware of the Municipal LID Self-Assessment that was introduced by the DEM and RI NEMO in 2019 and finalized and distributed in March 2020?

☒ Yes ☐ No

A final version of the Municipal LID Self-Assessment is available on the DEM's website:
http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/t4guide/lid-checklist-primer.pdf

Additional guidance is also available:

http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/t4guide/lid-assessment-fs.pdf

http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/pdfs/lidfactsheet.pdf

http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/t4guide/lidplan.pdf

Did your community complete the Municipal LID Self-Assessment? ☐ Yes ☒ No
If yes and it was completed in 2023, please provide a copy as an attachment to this Annual Report, if you have not already submitted it.

If no, does your community plan to complete it?

☐ Yes ☒ No

If No, why not?

As described above, the University has adopted LID practices for internal projects. Further, URI requires new major buildings on campus to meet LEED requirements for stormwater management. In summary, our current practices already incorporate practices geared toward low-impact development.

Strategies being implemented to ensure long-term Operation and Maintenance (O&M) of privately-owned structural stormwater BMPs, check all that apply in your municipality/MS4:

☐ None
☐ Ordinances or by-laws identify BMP inspection responsible party
☐ Ordinances or by-laws identify BMP maintenance responsible party
☐ Ordinances or by-laws identify BMP inspections and maintenance requirements
☐ Ordinances or by-laws provide for easements or covenants for inspections and maintenance
☐ Ordinances or by-laws require for every constructed BMP an inspections and maintenance agreement
☐ Ordinances or by-laws contain requirements for documenting and detailing inspections
☐ Ordinances or by-laws contain requirements for documenting and detailing maintenance
☐ Ordinances or by-laws contain authority to enforce for lack of maintenance or BMP failure
☐ The MS4 is responsible for inspections of all privately-owned BMPs
☐ The MS4 is responsible for maintenance of all privately-owned BMPs
☐ Establishment of escrow account for use in case of failure of BMP
☐ Other strategies to ensure long-term O&M of privately-owned BMPs, describe:
☒ The University does not have any privately owned BMP's. All BMP's are MS4-owned BMP's. As such, the sections below are N/A.

Does your municipality/MS4 require the use BMPs Operations and Maintenance Agreements?	☐ YES ☐ NO
If YES, please indicate if the Operations and Maintenance Agreements include the following:	
a. Party responsible for the long-term O&M of permanent stormwater management BMPs	☐ YES ☐ NO
b. A description of the permanent stormwater BMPs that will be operated and maintained	☐ YES ☐ NO
c. The location of the permanent stormwater BMPs that will be operated and maintained	☐ YES ☐ NO
d. A timeframe for routine and emergency inspections and maintenance of all permanent stormwater management BMPs	☐ YES ☐ NO
e. A requirement that all inspections and maintenance activities are documented	☐ YES ☐ NO
f. Annual submission of inspection/maintenance certification/documentation to the MS4	☐ YES ☐ NO
g. Stormwater management easement for access for inspections and maintenance or the preservation of stormwater runoff conveyance, infiltration, and detention areas and other stormwater controls and BMPs by persons other than the property owner	☐ YES ☐ NO
h. Steps available for addressing a failure to maintain the stormwater controls and BMPs	☐ YES ☐ NO

Please elaborate, if appropriate:

_____

_____

Does your municipality/MS4 keep an inventory of privately-owned BMPs?	☐ YES ☐ NO

<u>For privately-owned structural BMPs</u>, does your municipality/MS4 have a system for tracking:

a. Agreements and arrangements to ensure O&M of BMPs?	☐ YES ☐ NO
b. Inspections?	☐ YES ☐ NO
c. Maintenance and schedules?	☐ YES ☐ NO
d. Complaints?	☐ YES ☐ NO
e. Non-Compliance?	☐ YES ☐ NO
f. Enforcement actions?	☐ YES ☐ NO

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track post-construction BMPs, inspections, and maintenance? ☒ YES ☐ NO

If yes, please elaborate on which tools are used:

_____

_____

NOTE: BMP maintenance tasks can be a great way to involve and educate the community to their purpose and function. BMPs have the potential to create a highly interactive environment for community members and volunteers to get involved.

MINIMUM CONTROL MEASURE #6:
POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS
(Part IV.B.6 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements, and personnel responsible. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Angela Harvey -- Manager, Utilities and Environmental Compliance

Phone: 401-874-2448 **Email:** alharvey@uri.edu

IV.B.6.b.1.i	Use the space below to describe activities and actions taken to identify structural BMPs (these include but are not limited to: retention/detention basins, vegetated treatment, infiltration and pre-treatment controls, etc.) owned or operated by the small MS4 operator (the program must include identification and listing of the specific location and a description of all structural BMPs in the SWMPP and update the information in the Annual Report). Evaluate appropriateness and effectiveness of this requirement. **Do you have an inventory of MS4-owned/operated BMPs?** ☒ YES ☐ NO **Total # of MS4-owned/operated BMPs** (does not include CBs or MHs): 123

The University updates its BMP inventory list annually, with BMPs added or removed as a result of new construction activity directed through the Office of Capital Projects, Office of Small Projects, and Lands and Grounds. GIS mapping is updated to show the locations of BMPs as they are added or removed from the inventory list. The Utilities Offices uses the list in conjunction with the mapping to conduct annual inspections and identify the locations of features requiring maintenance and repair.

IV.B.6.b.1.ii	Use the space below to describe activities and actions taken for inspections, cleaning and repair of detention/retention basins, storm sewers and catch basins with appropriate scheduling given intensity and type of use in the catchment area. Evaluate appropriateness and effectiveness of this requirement. **# of MS4-owned/operated BMPs inspected in 2023**: 123 **# of MS4-owned/operated BMPs maintained/cleaned in 2023**: 123 **# of MS4-owned/operated BMPs repaired in 2023**: 1 Does your municipality/MS4 have a system for tracking: a. Inspection schedules of MS4-owned BMPs? ☒ YES ☐ NO b. Maintenance/cleaning schedules of MS4-owned BMPs? ☒ YES ☐ NO c. Repairs, corrective actions needed? ☒ YES ☐ NO d. Complaints? ☒ YES ☐ NO Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance? ☒ YES ☐ NO

The following BMP underwent repair in 2023:
*Inlet to CBLS rain garden (replacement of pipe section thicky clogged with bamboo roots)

IV.B.6.b.1.iii	Use the space below to describe activities and actions taken to support the requirement of yearly inspection and cleaning of all catch basins (a lesser frequency of inspection based on at least two consecutive years of operational data indicating the system does not require annual cleaning might be acceptable). Evaluate appropriateness and effectiveness of this requirement. **Total # of CBs within regulated area (including SRPW and TMDL areas):** 840 **# of CBs inspected in 2023:** 814 **% of Total inspected:** 97% **# of CBs cleaned in 2023:** 455[A] **% of Total cleaned:** 55% If determined, approximate quantity of sand/debris collected by cleaning of catch basins: 46.75 tons Location used for the disposal of debris: Removal to RIRRC as solid waste by Waste Management Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins? ☒ YES ☐ NO

[A]Includes those catch basins inspected by the vendor and found to be clean.

In general, URI's vendor inspects and cleans those basins located in busy roadways every year, and under URI's direction – based on sediment accumulation data collected by the University -- has implemented a new process for inspecting other basins on an alternating annual basis based on their location to the north or south of an imaginary line that runs through the campus. Basins that are not inspected by the vendor are inspected by the Utilities Office.

IV.B.6.b.1.iv	Use the space below to describe activities and actions taken to minimize erosion of road shoulders and roadside ditches by requiring stabilization of those areas. Evaluate appropriateness and effectiveness of this requirement.

Most roadways throughout campus have curbs to minimize erosion. Swales and ditches are also used to limit erosion of roadside shoulders. Areas that have been disturbed by winter activities are repaired and seeded in the spring.

IV.B.6.b.1.v	Use the space below to describe activities and actions taken to identify and report known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation, for the Department to determine on a case-by-case basis if the scouring or sedimentation is a significant and continuous source of sediments. Evaluate appropriateness and effectiveness of this requirement.

During the annual inspection of outfalls, the outfalls are inspected for scouring and excessive sedimentation. Areas that need repair are reported to the URI Control Center and a work order is generated.

IV.B.6.b.1.vi	Use the space below to indicate if all streets and roads within the urbanized area were swept annually and if not indicate reason(s). The operator is required to sweep all streets and roads within the regulated area annually unless a lesser frequency can be justified based on at least two consecutive years of data indicating the street or road does not require annual sweeping. Evaluate appropriateness and effectiveness of this requirement. **Total roadway miles within regulated area (including SRPW and TMDL areas):** 7 **Roadway miles that were swept in 2023:** 7 **% of Total swept:** 100 Type of sweeper used: ☒ Rotary brush street sweeper ☐ Vacuum street sweeper If determined, approximate quantity of sand/debris collected by sweeping of streets and roads: 12 cy Location used for the disposal of debris: Removed from URI property by contractor Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the annual sweeping of streets and roads? ☐ YES ☒ NO

All roadways and most parking lots are swept each spring to remove sand and sediment. The only parking lots that are not swept are the porous pavement parking lots which are vacuumed. Additional sweeping of roads also occurs just prior to commencement activities in May as well as when needed throughout the year. The work is required not only for runoff concerns but as well as safety issues with bicycles and other modes of transport across campus and for general aesthetics. In the summer the gutters along the campus roads are vacuumed monthly to remove accumulated debris. In the fall the gutters along the roads are vacuumed weekly (October & November) to remove accumulated leaves and debris. The sweeping of the roads is performed by outside contractors under the direction of the Lands and Grounds Dept. The University uses only a limited amount of sand during the winter months. The URI Lands and Grounds Dept. is responsible for vacuuming the gutters.

IV.B.6.b.1.vii	Use the space below to describe activities and actions taken for controls to reduce floatables and other pollutants from the MS4. Evaluate appropriateness and effectiveness of this requirement.

The URI Lands and Grounds Dept. and Utilities Office are responsible for this activity. Floatables and other trash is removed on a regular basis from waterways and adjacent areas. The volume of floatables and other trash associated with waterways and adjacent areas are not tracked separately from trash and recyclables collected across campus in receptacles. Trash and recyclable materials are collected at the University's transfer station and then trucked off campus.

IV.B.6.b.1.viii	Use the space below to describe the method for disposal of waste removed from MS4s and waste from other municipal operations, including accumulated sediments, floatables and other debris and methods for record-keeping and tracking of this information. Do you have a system for tracking actions to remove and dispose of waste? ☒ YES ☐ NO

Sediments removed from drainage structures were disposed of offsite in 2023. The Utilities Office is responsible for this activity.

Sediments from street sweepings were disposed of off-site by the contractor. Floatables and trash are removed on a regular basis from waterways and adjacent areas and are trucked off campus. The volume is not recorded separately from general trash and materials collected across campus. The URI Lands and Grounds Dept. is responsible for these activities.

IV.B.6.b.2	Use the space below to describe any operations under the MS4's legal control, including activities and facilities, that have the potential to introduce pollutants into stormwater runoff, such as pesticide/herbicide/fertilizer application, chemical and waste handling and storage, vehicle fueling, vehicle washing, vehicle maintenance, sand/salt storage, snow disposal, facilities such as public works facilities with maintenance and storage yards, waste transfer stations, municipal wastewater and water treatment facilities, and municipal parking owned and operated by the MS4. Does your MS4 have any salt piles, or piles containing salt, used for deicing? ☒ YES ☐ NO If yes: Are these piles covered to prevent exposure to rain, snow, snowmelt and/or runoff? ☒ YES ☐ NO If yes, check the type of cover used: ☒ Weatherproof permanent structure/shelter ☐ A temporary, secured, durable, waterproof covering (e.g., tarpaulin, polyethylene, polyurethane) Are these piles located on impermeable surfaces? ☒ YES ☐ NO

The University uses magnesium chloride for the treatment of permeable and concrete surfaces. Road salt is used to treat impervious asphalt surfaces. Best management practices are used to ensure proper application of both treatments. In addition to the above, best management practices are employed for all of the following: pesticide/herbicide/fertilizer application, chemical and waste handling and storage, vehicle fueling, vehicle washing, vehicle maintenance, snow disposal, maintenance and storage yards, waste transfer stations, water treatment facilities, and parking owned and operated by the University.

IV.B.6.b.5	For all facilities with discharges of stormwater associated with industrial activity, use the space below to describe and indicate activities and corrective actions for the evaluation of compliance. This evaluation must include visual quarterly monitoring; routine visual inspections of designated equipment, processes, and material handling areas for evidence of, or the potential for, pollutants entering the drainage system or point source discharges to waters of the State; and inspection of the entire facility at least once a year for evidence of pollution, evaluation of BMPs that have been implemented, and inspection of equipment. A Compliance Evaluation report summarizing the scope of the inspection, personnel making the inspection, major observations related to the implementation of the Stormwater Management Plan (formerly known as a Stormwater Pollution Prevention Plan), and any actions taken to amend the Plan must be kept for record-keeping purposes.

The URI Utilities Office conducted quarterly monitoring and routine inspections of the URI Facilities Areas in 2023. A full inspection of the Facilities Operations area of the campus was also performed and is documented in the evaluation report. URI has a SPCC Plan in place, which was updated in 2022. This Facilities Area is monitored regularly and routine walk-throughs of storage areas occur frequently. If any issues are noted a work order is generated.

IV.B.6.b.6	Use the space below to describe all employee training programs used to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance for the past calendar year, including MS4 staff participation in trainings offered by other parties (e.g. SNEP, EPA) and all in-house training conducted by the municipality/MS4. Evaluate appropriateness and effectiveness of this requirement. How many stormwater management trainings have been provided to *municipal/MS4 employees* during this reporting period? 0[A] What was the date of the training? ___/___/____ Training Topic(s): _____ How many *municipal/MS4 employees* attended this training? _____ What was the date of the training? ___/___/____ Training Topic(s): _____ How many *municipal/MS4 employees* attended this training? _____ [Add additional trainings as necessary.] What percent of *municipal/MS4 employees* in relevant positions and departments received stormwater management training? 100% Have *municipal/MS4 employees* that are responsible for inspecting or cleaning catch basins also been trained to detect and report illicit connections or non-stormwater discharges? ☒ YES ☐ NO

[A]Stormwater training in a group setting has historically been conducted as part of the University's Public Safety Department's Spill Prevention and Control training. However, due to a critical staff member's retirement in 2023, The Public Safety Department did not offer annual refresher training in 2023. To ensure the availability of refresher training in the future, both the Utilities Office and the Public Safety Department are exploring the potential of offering online training through the state's training platform. We believe that offering training online will ensure that training will be available on an as-needed basis vs. a few times yearly and will eliminate any staffing issues relative to delivering content.

Supervisors who hire employees into relevant positions are expected to brief employees on the proper handling and disposal of products that are potentially damaging to life and the environment. For example, the Lands & Grounds Department historically sends its crews to the annual green industry conference and seminars. This allows L&G staff to earn certification and knowledge credits toward their various licenses. Topics covered have included IPM strategies and best practices for maintaining landscapes efficiently with minimal environmental impacts. The training and course offerings differ each year, with topics ranging from strategies to protect stormwater to general environmental protection.

The Utilities Office ensures that its employees responsible for inspection or cleaning catch basins have been trained to detect and report illicit connections and non-stormwater discharges.

IV.B.6.b.7	Use the space below to describe actions taken to ensure that new flow management projects undertaken by the operator are assessed for potential water quality impacts and existing projects are assessed for incorporation of additional water quality protection devices or practices. Evaluate appropriateness and effectiveness of this requirement.

RIDEM permitting is required for all new flow management projects to assess water quality impacts. The University encourages infiltration and groundwater recharge utilization in new projects and re-developments in addition to complying with regulatory standards. In addition to the large-scale permitted projects, the University historically has installed small detention/infiltration basins, grass swales and berms to capture storm water flow where observed to be necessary. These small projects significantly reduce the amount of erosion and sedimentation issues downstream. The University requires that new and redevelopment projects apply effective BMPs that control flow, erosion, and water quality impacts. New major projects have the goal of meeting LEED certification which includes sustainable management of water resources and pollution control.

Additional Measurable Goals and Activities

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i) These include but are not limited to retention/detention basins, vegetated treatment, infiltration, and pre-treatment controls, etc.

Table starts on the next page.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP ID	Location	Owner/Operator	Description of BMP	Inspection frequency
BMP-01	Northwest of Independence Square and south of the	URI	Level Spreader	Annually
BMP-02	Ballentine Hall Detention Pond, north of Ballentine Hall	URI	Detention Pond	Annually
BMP-03	Butterfield Rd Sedimentation box; North of Hope Dining Hall	URI	Sedimentation Box	Annually
BMP-04	CBLS Rain Garden	URI	Rain Garden	Annually
BMP-05	North of CHI PHI Fraternity House, NW of Weldin Hall	URI	Detention structure, Stormceptor	Annually
BMP-16	Dairy Barn Parking Lot; North of Meade Stadium	URI	Pervious Parking Surface	Annually
BMP-17	Eddy Hall Infiltration System	URI	Infiltration System for Roof Drainage	Annually
BMP-18	Ellery Pond	URI	Detention Pond	Annually
BMP-19	Flagg Road Parking Lot West detention Basin	URI	Detention Pond	Annually
BMP-20	Flagg Road Parking Lot East Detention Basin	URI	Detention Pond	Annually
BMP-21	Swale East of Heathman Road	URI	Swale	Annually
BMP-22	Merrow Hall Detention Area West of Merrow Hall	URI	Detention Pond	Annually
BMP-23	Plains Road Parking Lot	URI	Swales, Infiltration System	Annually
BMP-24	Plains Road Parking Lot	URI	Pervious Parking Surface	Annually
BMP-25	Ryan Center/Tootell Vortechnics Units	URI	Vortechnics	Annually
BMP-26	Swale North of Sherman Building	URI	Swale	Annually
BMP-27	Fraternity Circle Swale – North of Sigma Chi	URI	Swale	Annually
BMP-29	Infiltration Systems at Wiley/Garrahy Halls	URI	Infiltration Systems	Annually
BMP-30	Hope Dining Hall Drainage	URI	CB/DMH & Piping Drainage system	Annually
BMP-31	Freshman Dorms Drainage System	URI	CB/DMH & Piping Drainage System	Annually
BMP-32	Wiley/Garrahy Drainage System	URI	CB/DMH & Piping Drainage System	Annually
BMP-33	Eddy Hall Drainage System	URI	CB/DMH & Piping Drainage System	Annually
BMP-34	Flagg Road Swale (North of Flagg)	URI	Swale	Annually
BMP-45	Independence Square Infiltration System	URI	Infiltration System	Annually
BMP-46	Roger Williams Detention Pond	URI	Detention Pond	Annually
BMP-50	CBLS Green Roof	URI	Green roof	Annually
BMP-51	CBLS Stormceptor	URI	Sedimentation unit	Annually
BMP-52	Hillside Dorm Water Quality Structures	URI	Sedimentation Unit	Annually
BMP-53	Hillside Dorms Bioretention areas	URI	Bio-retention area	Annually

BMP-54	Infiltration Basin south of Baird Hill Road and West of Lower College Road	URI	Infiltration Basin	Annually
BMP-55	Bio-Retention Area North of College of Pharmacy	URI	Bio-Retention Area	Annually
BMP-56	Swale south of Parking Services Building	URI	Swale	Annually
BMP-57	Swale East of Hillside East Access Road	URI	Swale	Annually
BMP-58	Paved swales at Keaney Parking Lot	URI	Swale	Annually
BMP-59	Sherman East Lot infiltration System	URI	Infiltration System	Annually
BMP-60	Wellness Center Infiltration System	URI	Infiltration System	Annually
BMP-64	Flagg Road Extension Porous Paving Lot	URI	Pervious Parking Surface	Annually
BMP-65	Central Receiving Infiltration	URI	Infiltration System	Annually
BMP-67	Infiltration/Detention Basin South of Sherman Building	URI	Infiltration System	Annually
BMP-69	COP Medicinal Garden	URI	Rain Garden	Annually
BMP-70	Swale West of Davis Hall	URI	Swale	Annually
BMP-71	Swale East of Rodman Hall	URI	Swale	Annually
BMP-73	Swale South of Fayerweather Hall	URI	Swale	Annually
BMP-74	Paved Swales at Gateway Apartments	URI	Swale	Annually
BMP-75	Paved Swale at Well House No. 2	URI	Swale	Annually
BMP-76	Plains Lot Addition (2013) – Infiltration Channels	URI	Infiltration System	Annually
BMP-77	Flagg Road Extension Swales Parallel to Road	URI	Swale	Annually
BMP-79	Flagg Road Extension – Paved Waterways	URI	Swale	Annually
BMP-80	Flagg Road Extension Basin "H" Discharge Structure	URI	Infiltration system	Annually
BMP-81	White Hall Lot – Swale at NW Corner of Lot	URI	Swale	Annually
BMP-82	Greenhouse Lot – Dry Swales	URI	Swale	Annually
BMP-83	Greenhouse Lot – Grass Channel	URI	Swale	Annually
BMP-84	Greenhouse Lot – Paved Waterways	URI	Swale	Annually
BMP-85	Greenhouse Lot – Forebay/Infiltration System	URI	Infiltration System	Annually
BMP-86	Greenhouse Roof Drain infiltration System	URI	Infiltration System	Annually
BMP-87	Hillside Dorm Green Roof	URI	Infiltration System	Annually
BMP-88	Flagg Road Detention Basin "D"	URI	Infiltration System	Annually
BMP-89	Flagg Road Detention Basin "E"	URI	Infiltration System	Annually

BMP-90	Flagg Road Detention Basin "H"	URI	Infiltration System	Annually
BMP-91	Stone Swale east of Butterfield Residence Hall	URI	Swale	Annually
BMP-92	Tree Box Filters in Chemistry Building Area	URI	Detention/Infiltration System	Annually
BMP-93	Bioretention/Detention/Forebay System North of New Chemistry Building	URI	Detention/Infiltration System	Annually
BMP-94	Bioretention/Detention/Forebay System South of New Chemistry Building	URI	Detention/Infiltration System	Annually
BMP-95	Tree Box Filters in Flagg Road Parking Lot	URI	Detention/Infiltration System	Annually
BMP-96	Swale North of the CBLS NW Corner	URI	Swale	Annually
BMP-97	Rip Rap Swale West of New Electric Sub-Stations 1 & 2.	URI	Swale	Annually
BMP-98	Rip Rap Swale East of Butterfield Dining Hall	URI	Swale	Annually
BMP-99	Asphalt Berms at Fraternity Circle	URI	Swale	Annually
BMP-100	Swale North of Hopkins Hall	URI	Swale	Annually
BMP-101	Swale North of Chemistry/White Hall	URI	Swale	Annually
BMP-102	Detention Basin South of Elephant Walk 250' East of Butterfield Road	URI	Detention	Annually
BMP-103	Detention Basin East of Butterfield Hall	URI	Detention	Annually
BMP-104	Detention Basin 100' East of Butterfield Hall	URI	Detention	Annually
BMP-105	Rip Rap Swale at SW corner of Chafee Hall Parking Lot	URI	Swale	Annually
BMP-106	Tootell Rd Drainage – Infiltration	URI	Infiltration	Annually
BMP-107	Browning Hall Infiltration System	URI	Infiltration	Annually
BMP-108	Weldin Hall Infiltration System	URI	Infiltration	Annually
BMP-109	Sigma Chi Infiltration System	URI	Infiltration	Annually
BMP-110	Int Institute of Sports Infiltration System	URI	Infiltration	Annually
BMP-111	Ryan Center Vortechics (NE)	URI	Vortechnics	Annually
BMP-112	Swales SE and East of Ranger Hall	URI	Swale	Annually
BMP-113	Baseball Field Dry Wells	URI	Infiltration	Annually
BMP-114	Dry Well South of Green Hall	URI	Infiltration	Annually
BMP-116	Permeable Pavers at Hillside Hall Patio	URI	Infiltration System	Annually
BMP-117	Visitors Center Cul-Tec	URI	Infiltration System	Annually
BMP-118	Detention Pond West of MU	URI	Infiltration System	Annually
BMP-119	Detention Pond North of Bressler	URI	Infiltration System	Annually

BMP-120	Detention Basin S of Elephant Walk & W of MU	URI	Infiltration System	Annually
BMP-121	Infiltration/detention basin S of tennis courts	URI	Infiltration system	Annually
BMP-123	Outdoor track infiltration drywells	URI	Infiltration system	Annually
BMP-124	Sherman North lot infiltration system	URI	Infiltration system	Annually
BMP-126	Bio-retention basin - front of 50 Campus Ave lot	URI	Infiltration system	Annually
BMP-127	Bio-retention basin – rear of 50 Campus Ave lot	URI	Infiltration system	Annually
BMP-128	Recycling Center detention basin S gate	URI	Infiltration system	Annually
BMP-129	Recycling Center bio-retention basin N gate	URI	Infiltration system	Annually
BMP-130	Recycling Center main bio-retention basin	URI	Infiltration system	Annually
BMP-131	Recycling Center oil water separator	URI	Oil water separator	Annually
BMP-132	Recycling Center outlet control structure	URI	Control structure	Annually
BMP-133	Salt Barn filter	URI	Filter	Annually
BMP-134	Infiltration System – COE Quad	URI	Infiltration system	Annually
BMP-135	Storm Tech – COE Quad	URI	Stormtech chamber	Annually
BMP-136	Bio-retention area W of COE w/ diversion & outlet structures	URI	Bio-retention infiltration	Annually
BMP-137	Bio-retention area S of Woodward Hall w/ paved waterways, stone check dams, outfall riprap & outlet structure	URI	Detention/Infiltration System	Annually
BMP-138	Bio-retention area in traffic circle W of Child Devel Ctr w/ outlet structure	URI	Detention/Infiltration System	Annually
BMP-139	Riprap infiltration area S of Tyler Hall park lot w/swale	URI	Infiltration system	Annually
BMP-140	Dual Riprap infiltration area S of Tyler Hall park lot	URI	Infiltration system	Annually
BMP-141	Fraternity Circle, east end. Infiltration basis with outlet to storm drain system	URI	Infiltration system	Annually
BMP-142	Fraternity Circle, SW corner of complex – flow spreader.	URI	Flow spreader	Annually
BMP-143	Frat Circle – Parking Area Swale N with outlet. W of Alpha Delta Pi	URI	Infiltration swale	Annually
BMP-144	Frat Circle - Parking Area Swale S with outlet. W of Alpha Delta Pi	URI	Infiltration swale	Annually
BMP-145	East of Brookside N. Park lot collection/infiltration area	URI	Infiltration system	Annually
BMP-146	Rear of Brookside N . Infiltration for roof drain 1	URI	Swale	Annually
BMP-147	Rear of Brookside N . Infiltration for roof drain 2	URI	Infiltration system	Annually
BMP-148	Park lot, W of Brookside S Tree infiltration BMP A (N)	URI	Infiltration system	Annually
BMP-149	Vegetated infiltration BMP for roof drains off Brookside S	URI	Infiltration system	Annually
BMP-150	Rear of Brookside S. Collection veg. infiltration for roof drains	URI	Infiltration system	Annually

BMP-151	Park lot, W of Brookside S Tree infiltration BMP B	URI	Infiltration system	Annually
BMP-152	Park lot, W of Brookside S Tree infiltration BMP C	URI	Infiltration system	Annually
BMP-153	Park lot, W of Brookside S Tree infiltration BMP D	URI	Infiltration system	Annually
BMP-154	Park lot, W of Brookside S Tree infiltration BMP E (S)	URI	Infiltration system	Annually
BMP-157	Detention BMP at entrance to Brookside S with outlet	URI	Detention system	Annually
BMP-158	Vegetated filter strip along URI Bike Path section – Peckham Farm	URI	Infiltration filter strip	Annually
BMP-159	Bio-retention area, W of 10 Flagg lot, E of Bike Path	URI	Infiltration system	Annually

SECTION II.B - Discharges Causing Scouring or Excessive Sedimentation (Part IV.B.6.b.1.v)

Outfall ID:	Location:	Description of Problem:	Description of Remediation Taken, include dates:	Receiving Water Body Name/Description:
URI-031	U-Village Bldg 1	Sedimentation	Sediment requires removal	White Horn Brook
URI-033	U-Village Bldg 5	Sedimentation	Sediment requires removal	White Horn Brook

SECTION II.C - Note any planned municipal/MS4-owned construction projects/opportunities to incorporate water quality BMPs, low impact development, or activities to promote infiltration and recharge (Part IV.G.2.j).

SECTION II.D - Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data (Part IV.G.2.e).

TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

NOT APPLICABLE

SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural stormwater controls based on an approved TMDL or other water quality determination, please provide an assessment of the progress towards meeting the requirements for the control of stormwater identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.
(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: _____

Phone: _____ **Email:** _____

LIST OF IMPAIRED WATERS:

Impaired Water Body: WBID:	Pollutants Causing Impairments:	Has TMDL been completed? / Has MS4 been notified of TMDL requirements? / Has MS4 developed a Scope of Work or TMDL Implementation Plan?	☐ YES ☐ NO / ☐ YES ☐ NO / ☐ YES ☐ NO
Impaired Water Body: WBID:	Pollutants Causing Impairments:	Has TMDL been completed? / Has MS4 been notified of TMDL requirements? / Has MS4 developed a Scope of Work or TMDL Implementation Plan?	☐ YES ☐ NO / ☐ YES ☐ NO / ☐ YES ☐ NO
[add as necessary]			

What kind of public education and outreach strategy does the MS4 implement to target each pollutant of concern? (e.g., signage on installed stormwater controls, resources on website, pamphlets about litter, pet waste, grass clippings, fertilizer use, etc.)

Pollutant of Concern:	Strategy:	Target Audience:

Has the MS4 installed stormwater BMPs or required the installation of stormwater BMPs on private property to address impairments? ☐ YES ☐ NO

If yes, indicate the name of the impaired water body associated with the stormwater control, type of stormwater control, date installed, ownership, and who is responsible for maintenance:

Impaired water body	Type of Stormwater Control:	Date Installed:	☐ Municipally/MS4-Owned ☐ Privately-Owned	Who maintains it?
[add as necessary]				

Additional enhanced minimum measures used to address water quality issues (e.g., increased street sweeping or catch basin cleaning in areas with high pollutant loading, installation of floatable traps/screens, etc.):

SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

SECTION I. In accordance with Title 250 RICR-150-10-1 ("RIPDES Regulations") §1.32(A)(5)(a)(7), on or after March 10, 2008, any discharge from a small municipal separate storm sewer system to any Special Resource Protection Waters (SRPWs) or impaired water bodies within its jurisdiction must obtain permits if a waiver has not been granted in accordance with RIPDES Regulations §1.32(G)(5)(c). A list of SRPWs can be found in Title 250-RICR-150-05-1 ("Water Quality Regulations") §1.28 at this link:
https://rules.sos.ri.gov/regulations/part/250-150-05-1
The State of Rhode Island 2022 Integrated Water Quality Monitoring and Assessment Report (which includes the Section 305(b) State of the State's Waters Report and the Section 303(d) List of Impaired Waters) can be found here: https://dem.ri.gov/sites/g/files/xkgbur861/files/2022-09/RIDEM%202022%20Integrated%20Report%2003-29-2022.pdf

If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Stormwater Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of stormwater in these areas. Please indicate a rationale for the activities chosen to protect these waters. Please note that all of the measurable goals and BMPs required by the 2003 MS4 General Permit may not be applicable to these discharges.

NOT APPLICABLE

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Office of Water Resources

INSTRUCTIONS FOR THE RI POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS AND INDUSTRIAL ACTIVITY AT ELIGIBLE FACILITIES OPERATED BY REGULATED SMALL MS4s
ANNUAL REPORT FORM

WHO MUST SUBMIT AN ANNUAL REPORT:

Owners/Operators of regulated small municipal separate storm sewer systems (MS4s) and industrial activities authorized to discharge stormwater under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Stormwater General Permit for Small Municipal Separate Storm Sewer Systems and Industrial Activity at Eligible Facilities Operated by Regulated Small MS4s (hereafter referred to as "the General Permit"), must submit an Annual Report, outlined in Part IV.G of the permit. The Report must be submitted each year after permit issuance **by March 10th** to track progress of compliance. If you have questions regarding this Annual Report Form contact Jennifer Stout of the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700 ext. 2777726.

The Annual Report must be submitted to:

RIDEM Office of Water Resources
RIPDES Municipal and Industrial Stormwater Program
235 Promenade Street
Providence, RI 02908
ATTN: Jennifer Stout

An electronic copy of the Annual Report may be emailed to jennifer.stout@dem.ri.gov.

INSTRUCTIONS FOR COMPLETION:

GENERAL INFORMATION PAGE:

"RIPDES Permit #"
Include your permit ID # to ensure proper tracking.

"Operator of MS4"
Give the legal name of the person, firm, public (municipal) organization, or any other entity that is responsible for day-to-day operations of the MS4 described in this application (as defined in Title 250 RICR-150-10-1 ("RIPDES Regulations") §§1.3 and 1.12). Enter the complete address and telephone number of the operator. Circle the appropriate choice to Indicate the legal status of the operator of the MS4.

"Owner of MS4"
If the owner is the same as the operator do not complete this section. Give the legal name of the person, firm, public (municipal) organization, or any other entity that owns the MS4 described in this application (RIPDES Regulations §§1.3 and 1.12). Do not use a colloquial name. Enter the complete address and telephone number of the owner.

"Certification"
State and federal statutes provide for severe penalties for submitting false information on this application form. State and federal regulations require this application to be signed as follows (RIPDES Regulations §1.12);

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information or permit application requirements; and where authority to sign documentation has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor;

For a Municipality, State, Federal or other public site: by either a principal executive officer or ranking elected official.

SECTION I- OVERALL EVALUATION OF BMPS AND MEASURABLE GOALS:

One or more pages, front and back, are provided to report on the status of measurable goals which have been developed to aid in the implementation of strategies, procedures, and programs used to achieve each of the six minimum control measures in Part IV.B of the General Permit. This section provides narrative space for a descriptive explanation and evaluation of the actions taken to satisfy each of the minimum control measures for the 2023 calendar year. Please type or print. If additional space is needed, modify as necessary. Please submit attachments to the appropriate minimum control measure following the format provided.

A Permit ID # has been provided, which refers to the part of the permit where you can find a listing or description of the required measurable goal.

Please provide a general summary of actions taken (implementation of BMPs, development of procedures, events, etc.) to meet the measurable goals of the minimum measure. **Be sure to identify parties responsible for achieving each measurable goal** and reference any reliance on another entity for achieving any measurable goal. Mark with an asterisk (*) if this person/entity is different from last year.

Describe whether each measurable goal was completed within the time proposed in the General Permit or your Stormwater Management Program Plan (SWMPP). Why or why not? Provide a progress report and discussion of activities that will be carried out during the next reporting cycle to satisfy the requirements of the minimum measures. If applicable, assess the appropriateness of the actions taken to meet the requirements of the minimum measure. In determining appropriateness, you may want to consider at a minimum the local population targeted, pollution sources addressed, receiving water concerns, integration with local management procedures, and available resources and violations or environmental impacts eliminated or minimized.

Also, discuss the effectiveness of the implementation of BMPs to meet the requirements of the minimum measure and the overall effectiveness of the minimum measure. Describe your progress towards achieving the overall goal of reducing the discharge of pollutants. Please include assessment parameters/indicators used to measure the success of the minimum measure. Also include a discussion of any proposed changes to BMPs or measurable goals.

After evaluation, it may be necessary to make changes or modifications to your Implementation Schedule if the time frame, appropriateness or effectiveness cannot be assured. If so, please include descriptions of changes or modifications, and detailed justification in the appropriate sections.

SECTION II- ADDITIONAL ANNUAL REPORT REQUIREMENTS

Section II refers to additional reporting requirements that the General Permit requires to be submitted to the Department as part of the Annual Report. Section II requirements apply to Minimum Control Measures 2 through 6.

Minimum Control Measure #2: Section II:
Specify the date of and how the annual report was public noticed. If a public meeting was needed, provide the date and place. Include a summary of public comments received in the public comment period of the draft annual report and planned responses or changes to the program (new or revised BMP's and measurable goals, partnerships, etc.). Be sure to attach a copy of your public notice (Parts IV.G.2.h and IV.G.2.i) to the Annual Report.

Minimum Control Measure #3: Section II.A:
Provide the number of illicit discharges identified in 2023, number of illicit discharges tracked in 2023, number of illicit discharges eliminated in 2023, complaints received, complaints investigated, violations issued and resolved with a summary of enforcement actions, number of unresolved violations that have been referred to RIDEM, the total number of illicit discharges identified to date, and the total number of illicit discharges remaining unresolved at the end of 2023. Include a short narrative describing the extent to which your system has been mapped (Part IV.G.2.m), and the total number of outfalls identified to date.

Minimum Control Measure #3: Section II.B:
List identified MS4 interconnections, including location, date found, operator of the physically interconnected MS4, and originating source of newly identified physical interconnections with other small MS4s. Also note any planned or coordinated activities with the physically interconnected MS4 (Part IV.G.2.k and IV.G.2.l).

Minimum Control Measures #4 & 5: Section II.A:
Identify the number of construction and post-construction plan and SWPPP/SESC Plan reviews completed during Year 20 (2023) and any additional information. This includes, but is not limited to a summary of the reviews, responsible parties, and types of projects reviewed.

Minimum Control Measure #4: Section II.B:
Construction inspection information for erosion and sediment control should be submitted annually as stated in Part IV.G.2.n. Provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section II.B:
Post-construction inspection information for proper installation of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.o. This should provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section II.C:
Inspection information for proper operation and maintenance of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.p. This should provide a summary of the number of site inspections conducted, inspections that have resulted in

enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #6: Section II.A:
As prescribed in Part IV.B.6.b.1.i of the General Permit, the MS4 operator must identify and list the specific location and description of all structural BMPs in the SWMPP at the time of application and update the information in the annual report.

Minimum Control Measure #6: Section II.B:
Part IV.B.6.b.1.v of the General Permit states to identify and report annually, as part of the annual report, known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation. Include Outfall ID #, location, description of the problem, any remediation taken, and the ultimate receiving water body.

Minimum Control Measure #6: Section II.C:
As noted in Part IV.G.2.j of the General Permit, specify any planned municipal/MS4-owned construction projects or opportunities to include water quality BMPs, low impact development, or seek to promote infiltration and recharge.

Minimum Control Measure #6: Section II.D:
Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data, including, but not limited to, dry weather survey data (Part IV.G.2.e).

TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

Section I:
Complete this section only if your MS4 is subject to an approved TMDL. TMDL requirements may require the implementation of the six minimum control measures to address the pollutants of concern, and/or additional structural stormwater controls or measures that are necessary to meet the provisions of the approved TMDL. Be sure to identify the approved TMDL and assess the progress towards meeting the requirements for the control of stormwater (Part IV.G.2.d).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to satisfy the requirements of the TMDL. If applicable, assess the appropriateness of the BMPs selected under each of the six minimum control measures to meet the requirements of the TMDL. In determining appropriateness, you may want to consider violations or environmental impacts eliminated or minimized.

Please include assessment parameters/indicators that will be used to measure the success of the selected BMPs. Also include a discussion of any proposed changes to BMPs or measurable goals.

SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

Section I:
Complete this section only if your MS4, located outside Urbanized Areas or Densely Populated Areas, discharges to:
a SRPW as listed in §1.28 of Title 250-RICR-150-05-1 ("Water Quality Regulations") at this link:
https://rules.sos.ri.gov/regulations/part/250-150-05-1
or
an impaired water body including water bodies with no approved TMDL as listed in the *State of Rhode Island 2022 Integrated Water Quality Monitoring and Assessment Report* (which includes the *Section 305(b) State of the State's Waters Report* and the *Section 303(d) List of Impaired Waters*) at this link:
https://dem.ri.gov/sites/g/files/xkgbur861/files/2022-09/RIDEM%202022%20Integrated%20Report%2003-29-2022.pdf

In accordance with the RIPDES Regulations §1.32(A)(5)(a)(7), MS4s were required to incorporate any discharges to these waterbodies into their MS4 Program on or after March 10, 2008 unless a waiver has been granted in accordance with RIPDES Regulations §1.32(G)(5)(c).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to incorporate these areas into the MS4's Phase II Stormwater Program.

Comprehensive Site Compliance Evaluation

Public Works Facility
Comprehensive Site Compliance Evaluation

Facility Name:	**University of Rhode Island – Facilities Dept.**
Facility Address:	**60 Tootell Road Kingston, RI 02881**
Observations by:	**Angela Harvey**
Date:	**December 8, 2023**

Vehicle/equipment (including mowers, small engines)		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under "Recommendations/Actions Taken".	**Working**	**Action Required**
a. Fueling:		
i. Designated fueling area has an overhanging roof	**X**	
ii. Materials to absorb spills stored near fueling location	**X**	
iii. Stormwater is directed away from fueling area / no water runs though fueling area during storms	**X**	
iv. Only trained staff fuels/cleans up any spills	**X**	
b. Maintenance & repair		
i. Washing occurs at off-site or within salt barn (drains to sewer)	**X**	
ii. Maintenance & repairs occur in designated area	**X**	
(a) Area is covered	**X**	
(b) Run-on is diverted away from location	**X**	
(c) Runoff is contained & treated	**X**	
iii. Spill cleanup materials are nearby	**X**	
iv. Outdoor maintenance & repairs occur only during dry weather	**X**	
v. Vehicles & equipment have been checked for leaks regularly	**X**	
vi. Drip pans are used under leaking vehicles/equipment	**X**	

Recommendations/Actions Taken:		
Outdoor loading/unloading of materials		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under "Recommendations/Actions Taken".	**Working**	**Action Required**
a. Employees & contractors are trained in spill prevention & response	**X**	
b. Spill cleanup materials are readily available	**X**	
c. Designated loading/unloading areas are covered	**X**	
d. Movement of materials during wet weather is discouraged	**X**	
e. Run-on is diverted (including downspouts)	**X**	
f. Drip pans are placed beneath hose/pipe connections	**X**	
g. Drip pans are stored in covered location near liquid transfer area	**X**	
h. Major clean-out of outdated materials is conducted once a year. Interior storage is at the Lands & Grounds building (22 W. Alumni.) Exterior storage of stockpiles of clean Lands & Grounds materials is in the area of the Transfer Station and is on a temporary basis until used or removed from the site. Materials generally consists of clean loam and clean leaf compost.	**X**	
i.		
Recommendations/Actions Taken:		
Outdoor storage		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under "Recommendations/Actions Taken".	**Working**	**Action Required**
a. Inventory of materials is minimized	**X**	
b. Storage areas are protected from rainfall by roof or other cover (What about new material stockpiles)	**X**	
c. Erosion controls are placed around large stockpiles	**X**	
d. Berms & curbs prevent run-on and runoff	**X**	
e. Containers are in good condition	**X**	
f. Container lids are secured	**X**	
g. Drums are labeled & stored in secure area	**X**	

Recommendations/Actions Taken:		
Building & Grounds Maintenance		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under "Recommendations/Actions Taken".	**Working**	**Action Required**
a. Collected vegetation is composted or put in dumpster. Small piles are routinely stored, chipped, and removed on a regular basis.	**X**	
b. Exposed soils are re-vegetated or mulched	**X**	
c. Trash is placed in waste collection containers, taken to the URI transfer station to be managed, and then shipped offsite.	**X**	
d. Drop cloths are used under scraping and sandblasting work	**X**	
e. Pressure washer runoff is screened before discharge to storm drain (no detergent is used)	**X**	
f. Downspouts discharge onto pervious surface; flow is dispersed	**X**	
g. Gutters are routinely inspected and cleaned annually.	**X**	
h. Litter and debris are routinely picked up	**X**	
Recommendations/Actions Taken:		
Paved Area Maintenance		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under "Recommendations/Actions Taken".	**Working**	**Action Required**
a. Area is swept or vacuumed; litter/debris removed	**X**	1
b. Sheet runoff flows to vegetated strip or swale	**X**	
Recommendations/Actions Taken: 1. Area between the blue administration building and mail building requires sweeping. Work order submitted 12/8/2023. Other areas appear to be acceptable.		
Waste Handling & Disposal		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under "Recommendations/Actions Taken".	**Working**	**Action Required**
a. Waste fluids are stored in good-condition, labeled containers under cover	**X**	

b. Dumpsters are covered	**X**	
c. Waste containers & dumpsters are out of runoff flow paths	**X**	
d. Spill cleanup materials are properly disposed	**X**	
e. Bulk wastes are confined & covered	**X**	
f. Accumulated sediments are removed	**X**	
g. Drums, barrels and tanks are free of leaks	**X**	
Runoff Management		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under "Recommendations/Actions Taken".	**Working**	**Action Required**
a. Runoff from exposed stockpiles and dumpsters is directed to storage or treatment area.	**X**	
b. Minimal sediment accumulation at outfall	**X**	
c. Outfalls are stabilized	**X**	**1**
d. Inlets are marked to avoid accidental exposure	**X**	
e. Inlets are cleaned on routine basis	**X**	
f. All structural components are routinely inspected	**X**	
Recommendations/Actions Taken: 1. Outfall #3, formerly a piped discharge into White Horn Brook, was redirected to enter a culvert underneath West Alumni Rd. south of Brookside S. Riprap at this location washes out during intense storms; a permanent repair continues to be recommended.		
Inspection of Stormwater Structures *Inspection parameters should be based on requirements of your site specific SWPPP. Add specifics of operations and maintenance plan for specific structures (e.g.: detention/retention basins, oil/water separators, etc.)*		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under "Recommendations/Actions Taken".	**Working**	**Action Required**
Structure 1: **Catch Basins**	**X**	
Structure type: (ie: oil/water separator, detention basin) **Catch Basins**	**X**	
Location: In Facilities Area; See Catch Basin Map		

Required Maintenance Activity: Monitor Catch basins for illicit discharges and debris.	**X**	
Required Maintenance Activity: Inspect catch basins annually, and clean and repair them if needed, based on funding and priority level, which includes functionality and safety.	**X**	
Required Maintenance Activity:		
Other inspection recommendations:		
***Structure 2:* Swale North of the Sherman Building Parking Lot and west of the salt barn.**		
Structure type: (ie: oil/water separator, detention basin) **Swale**	**X**	
Location: North of Sherman Building and South of Central Receiving		
Required Maintenance Activity: Mow grass and maintain slopes and pitch of swale. Mowing done when needed and routinely through mid-fall.	**X**	
Required Maintenance Activity: Repair and erosion problems when evident.	**X**	
Required Maintenance Activity:		
Other inspection recommendations:		
Structure 3:		
Structure type: (ie: oil/water separator, detention basin) **Swale**	**X**	
Location: **Storm water components at the Transfer Station**		
Required Maintenance Activity: Monitor and repair any erosion issues	**X**	
Other inspection recommendations:		
Record Keeping: Training, maintenance and inspection records should be kept as part of the SWPPP. This portion of the inspection is to insure that records are being maintained appropriately. Keep records for at least 5 years after permit expires (best to keep indefinitely)		
Activity and/or BMP Indicate if BMP is working or if action is required. Indicate required actions under “Recommendations/Actions Taken”.	**Have Records**	**Action Required**
a. Quarterly outfall visual monitoring results	**X**	

b. Employee training records	**X**	
c. Records of spills and/or leaks	**X**	
d. Inspection records for BMPs; maintained by Utilities	**X**	
e. Maintenance records for BMPs	**X**	
i. Catch basin cleaning - maintained by Utilities	**X**	
ii. Repairs to Campus BMPs - maintained by Utilities	**X**	
f. Inspection of Discharge Locations:	**X**	
i. BMP outfalls are inspected at least once annually	**X**	
g. Maintenance records for other Stormwater Structures	**X**	
h. *Add in any other records you are required to keep, check your SWPPP*		

Overall Comments and Recommendations: Indicate issues that need to be addressed here including: addition of new BMPs, where these new BMPs will be placed and what you hope they will fix. Also include a summary of the results of the quarterly visual monitoring.

The facility continues with efforts to prevent spills and/or leaks from entering the stormwater system and White Horn Brook. All liquids and chemicals are stored inside. Staff training is provided as part of periodic hazardous materials training. As new facilities and buildings are added, existing water/sewer infrastructure is upgraded with an emphasis on reducing the quantity and quality of stormwater runoff to reduce pollutant inputs to White Horn Brook. Quarterly visual monitoring did not indicate any concerns at this time.

Required Actions (indicate issues that need to be addressed to obtain/maintain compliance)

Required Action	**Date to be completed**	**Date completed**
Cover all material stockpiles./Material stockpiles removed in its entirety in 2018	2009	2017
Maintain inspection records electronically.	2009	Continuous
Maintain maintenance records electronically.	2009	Continuous
Reduce size of loam pile.	2009	2010
Install oil/water separators in catch basins. Catch Basins rebuilt in 2018.	2010	2018
Stabilize area adjacent to the brook and at swale. Area was addressed with swales, outfalls and	2011	2020

BMPs as part of the Brookside Residence Hall Project, completed in 2020.		
Obtain funding to improve the stabilization of riprap at the brook, which was installed as part of the Brookside Residence Hall Project, which washes out during heavy precipitation	2025	To be proposed for FY 2025
Remove stockpile from 210 Flagg Rd parking lot	2010	2011
Remove stockpile Hillside stockpile from area	2012	2012
Remove stockpiles in area of “Goat Barn”	2013	2017

Annual Stormwater Inspection and Report Certification

This Compliance Evaluation Report has been prepared by qualified personnel who properly gathered and evaluated the information submitted for this Report. The information in this Report, to the best of my knowledge, is accurate and complete

Signature: 

Title: Manager, Utilities & Environmental Compliance

Date: 12/8/2023

Quarterly Visual Monitoring Inspection Log
For Storm Water Pollution

Date	Time	Outfall Number or Description	Weather Conditions	Observations (contaminants observed/ erosion/sediment runoff	Probable Source of Any Observed Contamination	Action Taken to Prevent in Future
3/30/23	11:30	URI - 003	Clear/Dry	No contaminants/ standing water in the pipe[1]	N/A	N/A
5/16/23	10:00	URI-003	Clear/Dry	No flow. No contaminants observed	N/A	N/A
8/23/23	10:45	URI-003	Clear/Dry	No flow. No contaminants observed	N/A	N/A
12/8/23	10:30	URI-003	Cloudy/Dry	No flow. No contaminants observed.	N/A	N/A

Completed by: Angela Harvey
Title: Manager, Environmental Compliance & Utilities
Date: 12/8/2023

[1] The outfall was pipe was observed to contain an estimated 6" depth of water. This standing water is attributed to the accumulation of sediments within the channel into which the outfall discharges. The accumulation of sediment is attributed to scouring in the channel upgradient of Outfall 3 versus Outfall 3 itself. Recommend that the channel be restored to its original grade where sediment has accumulated and that the observation of discharge from the public works area be made upgradient of where the observation currently is made when standing water is observed in the channel.

Public Notice

The University of Rhode Island
Public Notice
Draft 2023 RIPDES SMALL MS4 ANNUAL REPORT

RIPDES Permit No. RIR040019

As of March 8, 2024, a draft of the 2023 RIPDES Small MS4 Annual Report prepared in accordance with the Rhode Island Pollution Discharge Elimination System (RIPDES) Program General Permit for Stormwater Discharges from Small Municipal Separate Storm Systems (MS4s) is available for review and download on the URI website at https://web.uri.edu/facilities/utilities/

If you have any questions or comments, please contact:
Angela Harvey, URI Utilities Office,
60 Tootell Road, Kingston, RI 02881
401-874-2448; alharvey@uri.edu

Outfall Tables

Name of Town: University of Rhode Island

Outfall Inspection - Jan 1-April 30			Illicit Discharge Flow Measurement				Visual Observation												Field Analysis			
Outfall ID	Date and time of Inspection	Inspector(s)	Flow Type	Approx Width of Water Surface (ft)	Approx Depth of Water (ft)	Approx Flow Velocity (ft/sec)	Immediate Surrounding Land Use	If Other	Odor	If Other	Color	If Other	Floatables	If Other	Staining	If Other	Clarity	Vegetation/ Algae Growth	Sedimentation	Scouring	Water Temp. Units	pH	Conductivity	Bacteria Units
001	2023-03-20 17:08:06	noahcloutier@uri.edu	MODERATE	1	0.5	0.2	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO	No samples taken			
002	2023-02-15 17:56:57	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
003	2023-02-15 17:11:05	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
003	2023-04-10 16:26:34	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
005	2023-02-15 17:13:30	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
006	2023-02-15 17:38:18	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
007	2023-02-15 17:39:23	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO				
008	2023-03-07 16:20:24	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	EXCESSIVE	NO	NO				
009	2023-03-07 16:18:57	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
010	2023-03-07 16:15:40	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
011	2023-03-07 16:08:45	noahcloutier@uri.edu	TRICKLE	0.2	0.1	1	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
012	2023-03-07 16:11:07	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
013	2023-03-07 16:13:22	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
014	2023-04-11 15:34:49	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	EXCESSIVE	NO	NO				
015	2023-04-10 16:56:13	noahcloutier@uri.edu	TRICKLE	0.33	0.04	2	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
016	2023-03-29 17:15:37	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
017	2023-03-29 17:10:37	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO				
018	2023-03-29 17:12:37	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	NO	NO				
019	2023-03-27 18:47:48	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	YES				
020	2023-04-04 16:00:45	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	NO	NO				
021	2023-03-30 16:25:20	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	NO	NO				
022	2023-04-11 15:58:17	noahcloutier@uri.edu	DRIP	0.25	0.04	0.2	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
023	2023-04-11 16:04:03	noahcloutier@uri.edu	TRICKLE	0.25	0.025	0.3	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
024	2023-04-11 16:02:03	noahcloutier@uri.edu	TRICKLE	0.13	0.025	0.5	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
025	2023-03-27 19:02:29	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO				
026	2023-03-27 19:04:19	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
027	2023-03-21 15:48:08	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
028	2023-03-07 16:56:32	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
029	2023-03-07 16:52:10	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
030	2023-03-07 16:53:12	noahcloutier@uri.edu	TRICKLE	0.08	0.04	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
031	2023-03-27 16:47:11	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO				
032	2023-03-27 16:42:07	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
033	2023-03-27 16:38:14	noahcloutier@uri.edu	TRICKLE	0.08	0.02	0.2	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO				
034	2023-03-27 16:02:48	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	YES	NO				
034	2023-03-29 14:34:15	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
036	2023-03-09 15:42:31	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	EXCESSIVE	NO	NO				
039	2023-03-20 17:21:08	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	YES				
041	2023-03-06 17:29:28	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
042	2023-03-06 17:18:21	noahcloutier@uri.edu	SUBSTANTIAL	0.3	3	2	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO	7.5 C	6.81	682	510 CFU/100 mL
043	2023-03-06 17:04:57	noahcloutier@uri.edu	MODERATE	0.3	0.2	3	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
044	2023-03-06 17:05:57	noahcloutier@uri.edu	SUBSTANTIAL	0.2	0.3	3	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
046	2023-04-13 16:29:57	noahcloutier@uri.edu	MODERATE	1.7	0.25	3	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
047	2023-04-13 16:27:08	noahcloutier@uri.edu	DRIP	0.25	0.08	0.1	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
048	2023-04-13 16:28:38	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
049	2023-04-10 18:49:24	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO				
049	2023-04-14 12:59:06	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
057	2023-03-06 17:07:46	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
058	2023-04-04 15:46:36	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
063	2023-02-15 17:34:26	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
066	2023-04-13 16:33:22	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
067	2023-04-12 15:56:40	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO				
069	2023-03-22 16:20:19	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	NO	NO				

Name of Town: University of Rhode Island

Outfall Inspection - Jan 1-April 30			Illicit Discharge Flow Measurement				Visual Observation												Field Analysis				
Outfall ID	Date and time of Inspection	Inspector(s)	Flow Type	Approx Width of Water Surface (ft)	Approx Depth of Water (ft)	Approx Flow Velocity (ft/sec)	Immediate Surrounding Land Use	If Other	Odor	If Other	Color	If Other	Floatables	If Other	Staining	If Other	Clarity	Vegetation/ Algae Growth	Sedimentation	Scouring	Water Temp. Units	pH	Conductivity	Bacteria Units
070	2023-03-20 17:22:43	noahcloutier@uri.edu	TRICKLE	0.08	0.02	0.1	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO	No samples taken			
071	2023-03-22 16:13:20	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
073	2023-04-04 15:58:21	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
074	2023-03-09 15:43:42	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
074	2023-03-09 15:45:50	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
077	2023-04-10 18:52:30	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	EXCESSIVE	YES	NO				
077	2023-04-14 13:01:01	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	EXCESSIVE	NO	NO				
080	2023-04-12 15:19:05	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
081	2023-04-12 15:40:56	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	YES				
088	2023-02-15 17:52:39	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
090	2023-04-10 18:05:02	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
112	2023-03-06 17:10:48	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
116	2023-03-29 14:50:58	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
117	2023-03-29 14:48:48	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
118	2023-04-12 15:54:23	noahcloutier@uri.edu	TRICKLE	0.17	0.03	0.3	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	YES				
122	2023-03-20 17:06:08	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
122	2023-04-10 16:19:56	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO				
123	2023-03-20 17:05:06	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
124	2023-03-22 16:11:25	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
125	2023-02-15 17:04:47	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
131	2023-03-09 15:11:26	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
132	2023-03-29 15:02:07	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
134	2023-03-06 17:24:54	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
135	2023-03-06 17:23:01	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
140	2023-03-20 17:10:54	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	EXCESSIVE	NO	NO				
146	2023-03-27 15:59:06	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO				
146	2023-03-29 14:31:23	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
148	2023-02-15 17:58:34	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	NO	NO				
157	2023-03-30 16:03:39	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	NO	NO				
160	2023-03-07 16:05:54	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				
162	2023-02-15 17:10:04	noahcloutier@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO				

RAW DATA CORRECTED WHERE NECESSARY TO CONVERT FROM INCHES TO FEET AND TO ALIGN FLOW TYPE DESCRIPTION TO OBSERVED FLOW. DATA COLLECTED TWICE FOR SIX OUTFALLS.

Name of Town: University of Rhode Island

Outfall Inspection - July 1-October 31			Illicit Discharge Flow Measurement				Visual Observation												Field Analysis							
Outfall ID	Date and time of Inspection	Inspector(s)	Flow Type	Width of Water Surface(ft)	Approx Depth of Water (ft)	Approx Flow Velocity (ft/sec)	Immediate Surrounding Land Use	If Other	Odor	If Other	Color	If Other	Floatables	If Other	Staining	If Other	Clarity	Vegetation/Algae Growth	Sedimentation	Scouring	Water Temp.	Units	pH	Conductivity	Bacteria	Units
001	2023-08-29 14:11:32	alharvey@uri.edu	MODERATE	0.3	0.1	0.5	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO	17.1	C	7.00	1000	240	CFU/100 mL
002	2023-10-13 16:35:35	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
003	2023-10-10 18:05:03	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
005	2023-10-10 18:18:26	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
006	2023-10-10 18:11:32	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
007	2023-10-10 18:13:47	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
008	2023-10-13 16:46:59	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
009	2023-10-13 16:49:24	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
010	2023-10-13 16:55:18	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
011	2023-10-06 17:42:10	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		ORG. SUDS		NONE		NORMAL	NORMAL	NO	NO						
012	2023-10-06 17:39:49	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
013	2023-10-06 18:33:40	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
014	2023-10-12 19:38:37	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
015	2023-10-06 18:06:21	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
016	2023-10-06 18:12:04	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
017	2023-10-06 18:19:21	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
018	2023-10-06 18:13:49	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
019	2023-10-12 19:44:49	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
020	2023-10-10 19:52:14	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
021	2023-10-10 19:47:59	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO						
022	2023-10-10 19:45:53	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
023	2023-10-12 18:23:31	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
024	2023-10-12 18:21:19	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
025	2023-10-12 18:27:47	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
026	2023-10-12 18:41:34	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
027	2023-10-12 18:32:15	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
028	2023-10-12 18:36:16	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	NO	NO						
029	2023-10-10 17:49:44	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO						
030	2023-10-10 17:52:04	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
031	2023-10-10 17:36:08	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
032	2023-10-13 15:25:01	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
033	2023-10-13 15:29:58	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
034	2023-10-13 15:41:36	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
036	2023-09-22 17:28:48	shawn.matthews@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	YES	NO						
039	2023-10-06 17:12:27	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
041	2023-10-10 18:45:57	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
042	2023-08-29 14:25:00	alharvey@uri.edu	MODERATE	0.3	0.2	1	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO	17.4	C	7.09	609	1200	CFU/100 mL
043	2023-08-29 14:31:54	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
044	2023-08-29 14:27:02	alharvey@uri.edu	MODERATE	0.5	0.1	1	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO	19.3	C	7.13	601	870	CFU/100 mL
046	2023-08-29 14:44:30	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
047	2023-08-29 14:43:57	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
048	2023-08-29 14:43:02	alharvey@uri.edu	TRICKLE	0.2	0.1	0.2	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO	18.3	C	7.01	519	410	CFU/100 mL
049	2023-08-29 15:07:03	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
050	2023-10-12 20:10:30	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
057	2023-10-12 19:56:52	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
058	2023-10-06 18:22:38	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
063	2023-10-10 18:09:32	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
066	2023-10-12 20:08:36	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
067	2023-10-12 19:00:31	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
069	2023-10-10 18:52:11	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
070	2023-10-06 17:10:31	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
071	2023-10-06 17:05:20	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	INHIBITED	NO	NO						
073	2023-10-12 19:41:15	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
074	2023-09-22 17:24:00	shawn.matthews@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	YES						
077	2023-09-12 14:06:51	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
080	2023-10-13 16:13:06	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
081	2023-10-13 16:00:22	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
088	2023-10-13 16:31:04	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
090	NO DATA																									
112	2023-10-12 20:00:44	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
116	2023-09-05 15:15:34	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
117	2023-09-05 15:13:03	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						

118	2023-10-12 18:48:03	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		ORG. SUDS		NONE		NORMAL	NORMAL	NO	NO						
122	2023-10-06 16:51:58	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO						
123	2023-10-06 16:49:38	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	YES	NO						
124	2023-10-06 17:00:08	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
125	NO DATA																									
131	2023-09-05 14:53:25	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
132	2023-09-22 16:55:03	shawn.matthews@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
134	2023-10-10 18:43:01	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
135	2023-10-10 18:41:40	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
140	2023-10-06 16:43:34	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
146	2023-09-05 15:00:25	alharvey@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
148	2023-10-10 19:02:02	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						
157	NO DATA																									
160	2023-10-13 17:01:46	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NONE	NO	NO						
162	2023-10-10 18:06:19	franklin_cruz@uri.edu	NONE	0	0	0	OTHER	College Campus	NONE		NONE		NONE		NONE		NORMAL	NORMAL	NO	NO						

RAW DATA CORRECTED WHERE NECESSARY TO ALIGN FLOW TYPE DESCRIPTION TO OBSERVED FLOW. ORGANIC (DOC) SUDS OBSERVED BENEATH OUTFALLS IN TWO LOCATIONS. DATA MISSING FOR THREE OUTFALLS. ALL THREE WERE OBSERVED TO BE DRY DURING SPRING SAMPLING.