RHODE ISLAND DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
Office of Water Resources

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RIPDES SMALL MS4 ANNUAL REPORT
GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040 100455

REPORTING PERIOD: [X] **YEAR 9**
Jan 2012-Dec 2012

OPERATOR OF MS4

Name: The University of Rhode Island			
Mailing Address: Sherman Building, 523 Plains Road			
City: Kingston	State: RI	Zip: 02881	Phone (401) 874-5488
Contact Person: Jerome Sidio	Title: Director, Facilities Services		
	Email: jerrysidio@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: Same			
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 Jerome Sidio

Print Title Director of Facilities Services

Signature Jerome B Sidio Date 3/1/13

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 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.)

IV.B.1.b.1	Provide a General Summary of activities implemented to educate your community on how to reduce storm water pollution. For TMDL affected areas, with storm water 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 all 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 into the storm drainage system. These safety sessions and presentations are conducted by the URI Safety and Risk Dept. Messages to educate the community also continued in the school website. The RI NEMO continued to sponsor education programs for all communities of the state. The director and staff are members of the URI community and provide resources for all communities in developing their storm water pollution prevention program and maintaining their program.
The parties involved include the URI Utilities Dept., URI Safety and Risk Dept., and the RI NEMO Program.

IV.B.1.b.2	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 storm water program. Describe partnerships with governmental and non-governmental agencies used to involve your community.

The University continued its support with various student groups for campus cleanup activities such as Earth Day events. In what may appear as unrelated to stormwater pollution prevention, the University has entered into a contract for energy savings which includes a behavior change measure. Though the concentration of this measure is for energy savings, it is hoped that the program will help change not only the community's wasteful energy behaviors, but also other wasteful behaviors such as littering which contributes to the stormwater pollution. URI also started construction of the Rhode Island Stormwater Management and treatment Demonstration Facility (RI SDF). This new facility will evaluate BMP structures against manufacturer claims and under environmental conditions prevailing in the state.
Responsible parties include the URI Utilities Dept., URI Department of Civil and Environmental Engineering, Noresco & RI NEMO.

Additional Measurable Goals and Activities: Please indicate if the following training sessions were attended and list the name(s) and municipal position of all staff who attended the training.

Attendance at the following trainings if applicable:

☒ A New Approach to Financing Stormwater Management: Stormwater Utility Districts. Workshop Part 3: Rhode Island Moves Forward (January 26, 2012)

Attending name of staff and title: Andy Alcusky Project Manger
Attending name of staff and title: _____

☐ RI Residential Rain Garden Training (April 3, 2012)

Attending name of staff and title: _____
Attending name of staff and title: _____

☐ Small Scale Bioretention Installation Training (April 11-12, 2012)

Attending name of staff and title: _____
Attending name of staff and title: _____

[X] Results of a Pilot Stormdrain Mapping Project in Johnston and Smithfield, RI … and how your municipality can participate (November 20, 2012)

Attending name of staff and title: Andy Alcusky, Project Manager

☐ Rhode Island Regulatory Setbacks and Buffers (November 29, 2012)

Attending name of staff and title: _____
Attending name of staff and title: _____

Other Trainings:
March 21, 2012 Webinar TMDL Storm Water Solutions – Post Const BMP & Understanding NIPDES permit program
Attending name of staff and title: Andy Alcusky PM

March 27, 2012 South County Stormwater Working Group
Attending name of staff and title: Jerry Sidio URI Facilities Director
Attending name of staff and title: Andy Alcusky PM

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.)

IV.B.2.b.2.ii	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 include the students living on campus especially the freshman students new to the campus. Others targeted include staff both educational as well as support staff. Activities implemented include the storm drain marking program by the students. Support staff is required to attend annual review sessions on the prohibition of illicit discharges into the storm drainage system and the proper handling and disposal of all materials. Other activities targeted for involvement include the campus wide cleanup to reduce floatables and Earth day activities. Responsible parties include the URI Utilities Dept. Lands and Ground Dept., the Trash and Recycling dept. and the URI Safety and Risk Dept.

Additional Measurable Goals and Activities

SECTION II. Public Notice Information (Parts IV.G.2.h and IV.G.2.i) *Note: attach copy of public notice

Date of Public Notice: February 6, 2013	How public was notified: Notice in Campus Newspaper
Was public meeting held? YES NO	
Date:	Where:

Summary of public comments received:

None received

Planned responses or changes to the program:

None at this time

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.)

IV.B.3.b.1:	Indicate if the outfall map was not completed, 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.) **Date of Completion: Revised Outfall Map was completed in December 2012**

The outfall map was completed by the URI Utilities Dept. Outfall Location Tables have been completed and were included with the Year 5 report. The outfall map was updated in 2012 and will be submitted to DEM as part of this report. The updated EXCEL tables will also be submitted (electronically) as part of this report. The Utilities Dept. used the original information from our consultant for the initial outfall map. In 2012 the Utility Dept. expanded the list from field observations during inspections and review of plans.

IV.B.3.b.2	Indicate if your municipality chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2012 calendar year.

The University Utilities Dept chose to implement the tagging of outfalls under the IDDE minimum measure and tagged the outfalls in 2008. URI updated the outfall map in 2012 and will include a copy with this report.

IV.B.3.b.3	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 drainage system and its records were again modified throughout campus during 2012. Some of the updates are a result of new construction work on campus. Areas of new construction included the renovation of the old Roger Williams Dining Hall into the new Health and Fitness Center, and the Flagg Road Extension project. Inspection of the athletic fields and the Agronomy areas also contributed significantly to the catch basin inventory. Other catch basins were added to control flooding and erosion issues in a number of areas. Lastly more catch basins were discovered as drainage lines are traced and structures are uncovered. As a result of the construction activity and field inspection an additional 87 catch basins and 6 drain manholes were added to our inventory and 3 catch basins were removed from the inventory list. The changes in the quantities were a result of further mapping of the system, inspection of the system and updating changes due to recent construction. In addition to changes found during the field inspections, URI will continue to update the drainage system records as they receive the as-built drawings of the projects completed during the past calendar year. URI's Capital Projects Group provides a status of all projects on campus to the Facilities Dept. and as projects are closed out, the URI Utilities Dept. will then update the drainage records using the as-built drawings as well as any new info discovered during the yearly inspections.

IV.B.3.b.4	Indicate if the IDDE ordinance was <u>not</u> 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:** If the Ordinance was amended in 2012, please indicate why changes were necessary.

The University of Rhode Island has not developed this ordinance in the 2012 calendar year. The University owns the entire subject area and controls all activities on their 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 Safety and Risk Management and Facilities Services Departments. The SR&M department receives, responds, investigates and files all incidents involving hazmat and other illicit discharge activities that might occur on campus. Investigations, corrective actions and enforcement activities are monitored and implemented through this office. We also conduct annual inspections throughout the campus for potential illicit discharges into the storm and waste water 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 storm water systems.

IV.B.3.b.5.ii, iii, iv, & v	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 referred to the URI Control Center. The Control Center will log each call and then notify the appropriate department responsible for the complaint. If the complaint is relative to an illicit discharge to the storm system, the URI Utilities Dept will be responsible to respond to the complaint. The Utilities Dept. will evaluate the complaint, trace the origin of the illicit discharge, ensure that the illicit discharge is stopped immediately and assess if other procedures need to be implemented.	
IV.B.3.b.5.vi	Provide summary of implementation of catch basin and manhole inspections for illicit connections and non-storm water 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.
During 2012, the URI Utilities Dept. inspected all catch basins that were accessible throughout the Kingston Campus for illicit connections and non-storm water discharges. Approximately 2.5% (23 catch basins) of the catch basins were not accessible or under construction and were not inspected. The inspections were performed in conjunction with the surveying of the drainage system for inventory of the system and noting condition of the structures. Inspection of the catch basins also help determined which structures were in need of cleaning. URI recorded the inspection results in an Excel database in 2012. URI will continue to inspect 100% of the catch basins in 2013.	
IV.B.3.b.5.vii	If dry weather surveys including field screening for non-storm water 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 must 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 sample 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.** **Date of Completion: August 2012**
The University conducted two dry weather surveys in 2012. The University Utilities Dept. performed dry weather surveys on May 18, 2012 and August 9, 2012. In the first survey, flow was noted at seven of the outfall sites. The origin of the flow in all cases was traced back to ground water or natural flow from wet areas. Flow was observed at three of the outfalls during the August 9, 2012 survey. The results of the surveys are shown in the Year 9 Report. The URI utilities dept conducted the surveys.	
IV.B.3.b.7	Provide a description of efforts and actions taken as a result of for coordinating with other physically interconnected MS4s, including State and federal 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 effectiveness of the implementation of this requirement.
During 2012 the University did not have any issues with illicit discharges associated with other MS4's. The only interconnections with another MS4 are two drainage lines that connect 12 catch basins from the South Kingston MS4 to the URI drainage system. URI staff met with the South County Stormwater Working group in March of 2012 to discuss a m\\\number of topics including illicit discharges.	
IV.B.3.b.8	Provide a description of efforts and actions taken for the referral to RIDEM of non-storm water 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.
The University identified three unauthorized non-storm water discharges during 2012. At the CBLS building the cooling tower drain was being directed into the storm water system. The URI maintenance department installed a temporary means to direct this discharge into the sanitary sewer system and a work order was sent to the URI Capital Projects group to pipe the cooling tower drain permanently into the sanitary sewer system. The second issue involved the discharge of the floor waxing machine into a storm drain in the Housing area on campus. The third violation was similar to the second incident except it was discovered in the engineering building area. In both cases the custodial supervisors for the Housing Dept. and the custodial supervisors for the academic areas were notified. They developed a means to empty the waste product into the sanitary system. In addition, the URI Safety and Risk Management Office conduct annual hazardous waste training for all facility employees. At the request of the Utilities Dept., the Safety and Risk Office added another module to the training program to notify all employees that illicit discharge into the storm water system is prohibited and disciplinary actions could result.	

IV.B.3.b.9	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-storm water 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 Services personnel must attend annual training on identifying the materials that the employees are exposed, spill prevention plans, spill control procedures and the proper means of material disposal. The University's Safety & Risk Dept. conducts numerous trainings throughout the year in proper disposal of wastes and especially hazardous wastes. All employees working with the waste stream are required to attend re-fresher courses. The Safety and Risk Dept. added another module to their training program to reinforce the fact that dumping anything down a storm drain is a violation of the law and employees could face disciplinary action if they ignore this requirement. Staff employees have been trained to comply with spill control procedures and the proper disposal of waste. A campus wide effort to inform students, staff and visitors was implemented. By directing the lawn mower discharge back into vegetated areas where possible, the University's Lands and Grounds personnel have been can limit the amount of lawn waste from being blown on impervious surfaces where it will flow into the storm drainage system.
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 Dept, The Safety and Risk Dept. and the Office of Capital Projects are tasked to monitor this requirement.

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 2012: 3	# of Illicit Discharges Tracked in 2012: 3
# of Illicit Discharges Eliminated in 2012: 3	# of Complaints Received: 2
# of Complaints Investigated: 2	# of Violations Issued: 0
# of Violations Resolved: N/A	# of Unresolved Violations Referred to RIDEM: 0
Total # of Illicit Discharges Identified to Date (since 2003): 5	Total # of Illicit Discharges remaining unresolved at the end of 2012: 0

Summary of Enforcement Actions:
No enforcement actions were required. All illicit discharges identified were eliminated.

Extent to which the MS4 system has been mapped:

Total # of Outfalls Identified and Mapped to date: 74

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

Interconnection:	Date Found:	Location:	Name of Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
24" Storm Drain	2-8-11	Briar Lane	South Kingston	Wetlands south of Briar Lane	Agreed to notify SK Engineer of any issues
12" Storm Drain	2-8-11	Fortin Road	South Kingston	2 Catch Basins on Fortin Road	Agreed to notify SK Engineer of any issues
12" Storm Drain	2-8-11	Chapel Road	South Kingston	10 Catch Basins on Chapel Road	Agreed to notify SK Engineer of any issues

MINIMUM CONTROL MEASURE #4:
CONSTRUCTION SITE STORM WATER 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.)

IV.B.4.b.1	Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was <u>not</u> 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:** If the Ordinance was amended in 2012, 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.

An ordinance for Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was not developed. 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 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.4.b.6	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 2012 the university did not receive any information or requests for information from the public.

IV.B.4.b.8	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 Storm Water 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 2012.

Additional Measurable Goals and Activities

SECTION II. A - Plan and SWPPP Reviews during Year 9 (2012), 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 for construction projects resulting in land disturbance of 1-5 acres must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

# of Construction Reviews completed: 4
Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. The Wellness and Fitness Center – This project involves the renovation of the old Roger Williams Dining Hall into a Wellness and Fitness Center. The plan was developed by Narragansett Engineering working under URI Capital Projects. Flagg Road Extension – This project includes the extension of Flagg Road across the existing turf farm where it will intersect with Plains Road near the Agronomy Building. Plans have been developed by Gordon Archibald working for URI Capital Projects and we have received plan approval. New Chemistry Building – This future project will include the construction of an 80,00SF Chemistry Building. Plans are being developed by Pare Associates working for URI Capital Projects and we have received plan approval. Maintenance Work on White Horn Brook – The University has submitted plans to DEM for maintenance work along White Horn Brook. Plans were developed by Gordon Archibald working for URI Capital Projects. All projects noted had SWPPP's developed by professional engineering firms prior to submission for DEM approval. All projects incorporated low impact design elements to the plans to limit water quality impacts.

SECTION II.B - Erosion and Sediment Control Inspections during Year 9 (2012), 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).

# of Site Inspections: 5	# of Complaints Received: 2
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. Inspections were conducted by URI Utilities Dept. personnel at the College of Pharmacy and at the Hillside Dormitory projects which were completed this year. Initial inspections were conducted by URI Utilities Dept. personnel at the Wellness and Fitness Center, the Flagg Road Extension and the Sherman Building Lot Modifications. Two complaints were received at the College of Pharmacy site concerning the dust controls and the site preparation for the College of Pharmacy. The URI Capital projects group was notified of both complaints and directed the contractor to address each complaint. The contractor responded quickly to address both concerns to the satisfaction of all.	

MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORM WATER 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.)

IV.B.5.b.5	Describe activities and actions taken to coordinate with existing State programs requiring post-construction storm water 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	Describe actions taken for the referral to RIDEM of new discharges of storm water associated with industrial activity as defined in RIPDES Rule 31(b)(15) (the operator must implement procedures to identify new activities that require permitting, notify RIDEM, and refer facilities with new storm water discharges associated with industrial activity to ensure that facilities will obtain the proper permits).

There was not any new industrial activity at this MS4 in 20012. Therefore there were no referrals to the State for any new discharges of storm water associated with industrial activity.

IV.B.5.b.9	Indicate if the Post-Construction Runoff from New Development and Redevelopment Ordinance was <u>not</u> 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:** If the Ordinance was amended in 2012, 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 <u>according to contract law.</u>

IV.B.5.b.12	Describe activities and actions taken to identify existing storm water 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 since the Master Drainage Plan was developed. The procedure to add new BMPs as well as the associated maintenance requirements to the list is an annual task for the Utilities Dept. Each year the University intends to update this list as new work is completed on campus. In 2012 the list of BMP's increased significantly and the updated list is included with the report. The BMP list increased due to a number of projects completed in the past year and identifying existing BMP's that were previously not identified during inspection of the URI storm water system. The University uses the BMP list to schedule <u>BMP maintenance.</u>

Additional Measurable Goals and Activities

SECTION II.A. - Plan and SWPPP Reviews during Year 9 (2012), Part IV.B.5.b.4: Review 100% of post-construction BMPs for the control of storm water 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).

# of Post-Construction Reviews completed: 5
Summary of Reviews and Finding, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. The URI Utilities Dept conducted post construction plan review of the recently completed College of Pharmacy and Hillside Dormitory projects in the upper campus. No other projects were completed in 2012. Projects started in 2012 that are scheduled for completion in 2013 include the Fitness and Wellness Center at the old Roger Williams Dining Hall, the Flagg Road Extension, and the Sherman Building Parking Lot modifications. All of these projects have post construction BMP's for storm water. Projects scheduled to start in 2013 include the new Chemistry Building which will have a number of BMP's associated with new project. The post construction reviews provide an additional check for the University confirming proper construction of the BMP and familiarizes the department with the new BMP's.Summary of Reviews and Finding, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement.

SECTION II.B. - Post Construction Inspections during Year 9 (2012), 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).

# of Site Inspections: 2	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions: No enforcement actions were required. The two post construction inspections were conducted by the engineer of record on the College of Pharmacy and Hillside Dormitory projects. The inspections did not have any major concerns other than some minor punchlist items. In December of 2012 the Utilities Dept. provided a second inspection of these completed projects.	

SECTION II.C. - Post Construction Inspections during Year 9 (2012), 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: 26	# 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. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. The post construction inspections are performed in conjunction with BMP inspections by the URI Utilities Dept. The inspections provide a good mechanism to identify potential problems prior to major water quality impacts. Work orders are generated as a result of the inspections. In 2012, work orders were issued for 20 items identified during these inspections.	

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.)

IV.B.6.b.1.i	Describe activities and actions taken to identify structural BMPs 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.

Initial identification of the structural BMPs was done in the 2006 Master Drainage Plan. In 2008 the Utilities Dept. started updating the list of BMPs. The list of maintenance activities are sent to the URI Control Center for regular scheduling of maintenance and inspection. The University updated the BMP List in 2012 and the latest list is included in this report. The updated list is a result of field inspections of the campus and review of existing drawings and new construction drawings. The list of BMP's is a handy reference for scheduling work activities.

IV.B.6.b.1.ii	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.

Catch Basin cleaning is performed each spring and early summer at areas known to require yearly cleanings. In 2012, the University had a total of 432 catch basins cleaned. The University inspected over 97% of the catch basins during calendar year 2012. The 23 catch basins not inspected were either inaccessible or under construction. URI will continue to inspect 100% of the catch basins each year until our records can provide the require data to reduce the inspections. URI also removed sediment from the north end of Ellery Pond and a portion of White Horn Brook as allowed in the maintenance permit. URI has noted the added benefit of less flooding in areas where the drainage system has been properly maintained.

IV.B.6.b.1.iii	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): 845 Total # of CBs inspected in 2012: 822 Total # of CBs cleaned in 2012: 432

The University inspected 97% of the catch basins during 2012. The University cleaned 51% of the catch basins. If the total catch basin quantity was reduced to catch basins with sumps only, the total percentage of catch basins cleaned would be over 65%. Catch Basins that were not inspected included basins that were inaccessible due to equipment placed on them or under construction or modification. The University recorded the inspections on an Excel spreadsheet. The University cleans catch basins in certain areas of the campus known to require annual catch basin cleaning. The University also uses the results of the yearly inspections to identify other areas of the campus where catch basins require cleaning. In 2012 the quantity of catch basins and drainage structures cleaned was significantly increased. An effort was made to clean all catch basins in areas that had not been cleaned in the past 2 years. The Hillside dorm area had all structures cleaned by the contractor at the completion of the project which also significantly increased the total catch basins cleaned from past years. The University intends to continue using the inspection results as a major factor in determining which catch basins to clean.

IV.B.6.b.1.iv	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.

In 2012, the University worked in a number of areas to minimize erosion of road shoulders and sloped areas throughout the campus.
Additional Improvements included the following:

- Southwest of Roosevelt Hall, the area was re-graded curbing installed and pavement modified to direct water flow to catch basins and limit the erosion of the shoulders.
- Curbing, sidewalks and berms were installed south of the Fine Arts Center adjacent to Bills Road to direct flow to catch basins and eliminate erosion of the shoulder.
- On the north side of Frat Circle, a sidewalk and curb was installed to direct storm water flow to the drainage structures and to limit erosion of the shoulders.
- East of Butterfield Hall, a grass swale was modified to decrease water flow down the adjacent hill.
- In the Engineering Quad, grass swales were modified to direct storm water flow to the drainage structures and to limit erosion at the edge of the sidewalks.
- In the parking lot for Peck Hall a paved swale was installed where the existing storm water flow was eroding its own channel.
- The University installed curbing along Plains Road west of the Sherman Building to limit erosion.
- South of the Central Receiving Warehouse, curbing was installed to limit erosion of the shoulder.
- South of the Potter Building, curbing was installed to limit erosion in this area.
- At the University Village Apartments, roof drains were connected to the existing drainage system to limit erosion of the hillside.
- Near Well House No. 2 a swale with rip rap was installed to limit erosion into 30 Acre Pond

Most roadways throughout campus have curbs to minimize erosion. Swales and ditches are also used to limit erosion of road side shoulders. Areas that have been disturbed by winter activities are repaired and seeded in the spring. Areas noted to be susceptible to erosion will be listed for possible curbing in the future. Un-needed walkways will be demolished to provide more pervious area. The University has been making a concerted effort to funnel pedestrian traffic to remain on walkways and have been trying to restrict pedestrian traffic from shortcuts across landscaped areas. Other areas that could be subject to erosion are being identified to be addressed in 2013. The effects of repaired areas are readily apparent with less eroded material accumulating in the roads and drainage system. The University also reviewed areas modified over the past four years and noted that the past shoulder modifications have been functioning well.

IV.B.6.b.1.v	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 are in need of repair are reported to the URI Control Center and a work order is generated.
Areas requiring work in 2012 include all outfalls into Ellery Pond and at all culverts along White Horn Brook.
Brush and debris was also removed from the length of White Horn Book from Ellery Pond to West Alumni Ave and from Ellery Pond to Roger Williams Pond.
Brush and debris were also removed from the culvert where White Horn Brook crosses under Flagg Road. On the south side of the culvert, the area was re-shaped and rip rap was installed.
The inspections of the outfalls are not only a requirement but provide a tremendous tool to identify potential storm water flow issues prior to a significant rain event.

IV.B.6.b.1.vi	Indicate if all streets and roads within the urbanized area were swept annually and if not indicate reason(s). Evaluate appropriateness and effectiveness of this requirement. Total roadway miles within regulated area (including SRPW and TMDL areas): ___4___ Total roadway miles that were swept in 2012: ___4___

All roadways and most parking lots are swept each spring to remove sand and sediment as a result of winter storms. Parking lots not swept such as porous pavement parking lots are vacuumed. Additional sweeping of roads also occurs just prior to commencement activities in May as well as 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. The sweeping of the roads is performed by outside contractors under the direction of the Lands and Ground Dept. The University uses only a limited amount of sand during the winter months.

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

The vast majority of the floatables encountered was trash. During 2012 the University has again increased the number of trash receptacles and recycling containers throughout the campus to reduce floatables and trash from reaching White Horn Brook. URI has also started a program to replace all of the small trash and recycle containers to improve visibility and effectiveness of the program. The University also monitors the location and the use of the trash receptacles on campus. Receptacles are re-located if it appears the present location is not readily convenient to the pedestrians. The University added two more part-time employees to work specifically on trash and recycling issues. This crew of employees is tasked to check all trash and recycling containers, cleanup spillage around the units, empty the small containers as well as pickup litter throughout the campus. Areas known for having litter problems such as the parking lots and areas adjacent to White Horn Brook have improved dramatically since the employees have been hired. Trash and recycled material are removed at least twice per week and as needed for special events. In the spring a cleanup event is scheduled to cleanup areas throughout the campus and especially along White Horn Brook and the nearby parking lots. In addition cleanup of areas is done by students doing community service volunteer work. The department has publicized publicize the reduced litter on campus and hope that the message will convince all members of the community to be more responsible with their trash. The part time workers in the trash and recycling crews provide coverage seven days per week. It is also hoped that single steam recycling will also divert some of the recycled materials from the trash stream.
The added efforts to increase recycling has had a noticeable effect on the campus, as recycle tonnage has increased, trash tonnage has decreased and the campus appearance has significantly improved.

IV.B.6.b.1.viii	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.

Sediments removed from drainage structures and ponds (if tests indicate that they are acceptable) are re-used for fill projects throughout the campus. Trash and recyclable materials are trucked off campus. The URI Lands and Grounds Dept. and Utilities Dept. are responsible for this activity. Presently the amount of waste has not been estimated. Sediment waste is estimated by the quantity of full truckloads of sediment removed. URI has not developed a means to track the sediment removed from each drainage structure. Floatables are removed on a regular basis from waterways and adjacent areas, but quantities are not kept.

IV.B.6.b.4 and IV.B.6.b.5	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 a 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 Storm Water Pollution Prevention Plan, and any actions taken to amend the Plan must be kept for record-keeping purposes.

Quarterly monitoring and routing inspections of the URI Facilities Areas were conducted in 2012. A full inspection of the Facilities Services 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 2010. This area is monitored on a regular basis and routine walkthroughs occur at least once a month.

IV.B.6.b.6	Describe all employee training programs used to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance for the past calendar year, including staff municipal participation in the URI NEMO storm water public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement.

As noted above URI personnel attended some of the training sessions offered in 2012.
The University also requires the Facilities Dept staff to attend refresher courses on material handling and proper disposal annually. These courses are conducted by the URI Safety and Risk Dept.
The annual refresher courses for the staff, is needed not only per regulations, but it is a useful tool to reinforce the reasons why the regulations are required. Attendees of the material handling safety course have noted some potential issues with disposal of some of their cleaning products. The custodial staff had noted the difficulty emptying their waxing machines in the proper manner. As a result of the safety sessions the University's Safety and Risk Dept is working with the custodial staff to ensure the waste products are not discharged into the storm water system. The training program has also eliminated potential illicit discharges into the storm water system. Inquiries have been made prior to the work starting on acceptable methods of cleaning equipment. An example of a potential discharge eliminated prior to its occurrence was when a worker called to ask if they could clean a generator at Hope Dining Hall and discharge into the storm drain. The worker was instructed of the proper methods.

IV.B.6.b.7	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 will be 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. The new College of Pharmacy and the Hillside Residence Hall are examples of recent completed projects where multiple water quality practices have been utilized. The Wellness and Fitness Center renovation, the Flagg Road Extension and the Facilities Area Parking Lot, are examples of projects currently under construction following this requirement. Future projects such as the proposed Chemistry Building will also follow in the same manner. In addition, the University has also directed storm water flow to infiltration areas in small scale projects such as the small retention area installed south of the Sherman Building. All of these projects will improve not only water quality but also decrease the severity of flood events.

Additional Measurable Goals and Activities

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i)

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:
BMP-01	Northwest of Independence Square and south of the intramural athletic fields	URI	Level Spreader
BMP-02	Ballentine Hall Detention Pond, north of Ballentine Hall	URI	Detention Pond
BMP-03	Butterfield Rd Sedimentation box; North of Hope Dining Hall	URI	Sedimentation Box
BMP-04	CBLS Rain Garden	URI	Rain Garden
BMP-05	North of CHI PHI Fraternity House, NW of Weldin Hall	URI	Detention structure, Stormceptor
BMP-06	NW of Coastal Institute	URI	Detention Pond
BMP-07	Culvert at Route 138 Crossing White Horn Brook	URI	Culvert
BMP-08	White Horn Brook Culvert at Fraternity Circle Footpath	URI	Culvert
BMP-09	White Horn Brook Culvert at Fraternity Circle	URI	Culvert
BMP-10	White Horn Brook Culvert East of Mackal Gym	URI	Culvert
BMP-11	White Horn Brook Culvert at Elephant Walk	URI	Culvert
BMP-12	White Horn Brook Culvert West of Dorr Hall	URI	Culvert
BMP-13	White Horn Brook Culvert West Alumni Avenue	URI	Culvert
BMP-14	White Horn Brook Culvert at Flagg Road	URI	Culvert
BMP-15	Culvert Crossing Plains Road just South of Central Receiving Warehouse	URI	Culvert
BMP-16	Dairy Barn Parking Lot; North of Meade Stadium	URI	Pervious Parking Surface
BMP-17	Eddy Hall Infiltration System	URI	Infiltration System for Roof Drainage
BMP-18	Ellery Pond	URI	Detention Pond
BMP-19	Flagg Road Parking Lot West detention Basin	URI	Detention Pond
BMP-20	Flagg Road Parking Lot East Detention Basin	URI	Detention Pond
BMP-21	Swale East of Heathman Road	URI	Swale

BMP-22	Merrow Hall Detention Area West of Merrow Hall	URI	Detention Pond
BMP-23	Plains Road Parking Lot	URI	Swales, Infiltration System
BMP-24	Plains Road Parking Lot	URI	Pervious Parking Surface
BMP-25	Ryan Center/Tootell Vortechnics Units	URI	Vortechnics
BMP-26	Swale North of Sherman Building	URI	Swale
BMP-27	Fraternity Circle Swale	URI	Swale
BMP-28	White Horn Brook	URI	Stream/drainage Conduit
BMP-29	Infiltration Systems at Wiley/Garrahy Halls	URI	Infiltration Systems
BMP-30	Hope Dining Hall Drainage	URI	CB/DMH & Piping Drainage system
BMP-31	Freshman Dorms Drainage System	URI	CB/DMH & Piping Drainage System
BMP-32	Wiley/Garrahy Drainage System	URI	CB/DMH & Piping Drainage System
BMP-33	Eddy Hall Drainage System	URI	CB/DMH & Piping Drainage System
BMP-34	Flagg Road Swale (North of Flagg Road)	URI	Swale
BMP-35	Plains Road Parking Lot drainage	URI	Drainage System
BMP-36	Campus Wide Catch Basins	URI	Drainage System
BMP-37	Campus Wide DMH's	URI	Drainage System
BMP-38	Campus Wide Street Sweeping	URI	Street Sweeping
BMP-39	Campus Wide Parking Lots Sweeping	URI	Parking Lot Sweeping
BMP-40	Flagg Road/Plains Road Catch Basins	URI	Drainage System
BMP-41	Coastal Institute Catch Basins	URI	Drainage System
BMP-42	Campus Wide Streets and Walkways	URI	Inspect on a regular basis for potential erosion issues
BMP-43	Campus Wide Outfalls	URI	Outfalls
BMP-44	Outfall Map	URI	Outfall Map
BMP-45	Independence Square Infiltration System	URI	Infiltration System
BMP-46	Roger Williams Detention Pond	URI	Detention Pond
BMP-47	Open Channel North of Hope Dining Hall	URI	Waterway
BMP-48	Open Channel South of Hutchinson Hall	URI	Waterway
BMP-49	Retaining Wall South of CBLS	URI	Erosion control measure
BMP-50	CBLS Green Roof	URI	Green roof
BMP-51	CBLS Stormceptor	URI	Sedimentation unit

BMP-52	Hillside Dorms Water Quality structures	URI	Sedimentation Units
BMP-53	Hillside Dorms Bio-retention Areas	URI	Bio-retention area
BMP-54	Infiltration Basin south of Baird Hill Road and West of Lower College Road	URI	Infiltration Basin
BMP-55	Bio-Retention Area North of College of Pharmacy	URI	Bio-Retention Area
BMP-56	Swale south of Parking Services Building	URI	Swale
BMP-57	Swale East of Hillside East Access Road	URI	Swale
BMP-58	Paved swales at Keaney Parking Lot	URI	Swale
BMP-59	Sherman East Lot infiltration System	URI	Infiltration System
BMP-60	Wellness Center Infiltration System	URI	Infiltration System
BMP-61	Culverts Crossing Plains Road North of Flagg Road	URI	Culverts
BMP-62	Culverts Crossing Flagg Road West of Plains Road	URI	Culverts
BMP-63	Culverts Crossing Plains Road South of Flagg Road	URI	Culverts
BMP-64	Flagg Road Extension Detention/Infiltration Basins	URI	Infiltration System
BMP-65	Flagg Road Extension Porous Paving Lot	URI	Pervious Parking Surface
BMP-66	Central Receiving Infiltration	URI	Infiltration System
BMP-67	Storm Water Test Station	URI	Sampling Station
BMP-68	Infiltration/Detention Basin South of Sherman Building	URI	Infiltration System
BMP-69	Swale East of Butterfield Hall	URI	Swale
BMP-70	COP Medicinal Garden	URI	
BMP-71	Swale West of Davis Hall	URI	Swale
BMP-72	Swale East of Rodman Hall	URI	Swale
BMP-73	Swale East of White Hall	URI	Swale
BMP-74	Swale South of Fayerweather Hall	URI	Swale
BMP-75	Paved swales at Gateway Apartments	URI	Swale
BMP-76	Paved Swale at Well House No. 2	URI	Swale

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-001	Flagg Road	Sedimentation & Trash	Area Dredged rip rap was adjusted in July 2011;Trash removed	White Horn Brook

URI -003	Facilities Area into White Horn Brook	Sedimentation	Sediment removed by Bobcat in July 2012	White Horn Brook
URI-015	Northwest of Fayerweather Hall	Sedimentation	Sedimentation removed by backhoe in August 2012	Ellery Pond
URI-016	Southwest of Fayerweather Hall	Sedimentation	Sedimentation removed by backhoe in August 2012	Ellery Pond
URI-017	Elephant Walk Discharge	Sedimentation & Scouring	Sedimentation removed by backhoe and rip rap installed	White Horn Brook
URI-021	NW Corner of Adams Hall Parking Lot	Sedimentation	Sedimentation removed by backhoe in July 2012	White Horn brook
URI-024	Southwest of CHI PHI Fraternity	Sedimentation	Sedimentation removed by backhoe in July 2011	White Horn Brook
URI-025	Frat Circle east of White Horn Brook	Sedimentation & Trash	Sedimentation removed by backhoe in July 2011; Trash Removed	White Horn Brook
URI-028	East of Keaney East Lot	Sedimentation	Sedimentation removed by backhoe in July 2012	White Horn Brook
URI-052	Swale North of Sherman Building	Sedimentation	Work is part of the Flagg Road Ext Contract	White Horn Brook
URI-059	East Keaney Lot from CB-160	Sedimentation	Sedimentation removed by backhoe in July 2012, Rip rap was cleaned up	White Horn Brook
URI-068	Southwest of Well House No. 4	Sedimentation and Scouring	Sedimentation removed by backhoe in July 2012, Rip Rap installed	30 Acre Pond

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

The University will continue to incorporate water quality BMPs and promote infiltration and groundwater recharge activities in new projects as applicable. The new College of Pharmacy and the Hillside Dormitory are examples of completed projects in 2012 where water quality BMP's are being used extensively. The new Wellness and Fitness Center, the Flagg Road Extension, the Sherman Lot, and the new Chemistry Buildings are projects now under or soon to be under construction which will also incorporate BMP's that promote infiltration and recharge. Recent projects throughout the campus have included the use of infiltration areas to handle storm flow. Recent projects include the porous pavement parking lots, dormitory infiltration systems, rain gardens and green roofs.

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).

Dry weather survey date is attached to this report and has also been sent to DEM electronically.

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

SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural storm water 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 storm water identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.

SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

SECTION I. In accordance with Rule 31(a)(5)(i)G of the *Regulations for the Rhode Island Pollutant Discharge Elimination System* (RIPDES Regs), 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 to Rule 31(g)(5)(iii). A list of SRPWs can be found in Appendix D of the *RIDEM Water Quality Regulations* at this link:
http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf
The 2008 303(d) Impaired Waters list can be found in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link: http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.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 Storm Water Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of storm water 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.

The University of Rhode Island
Public Notice
Draft RIPDES Phase II Stormwater Annual Report

RIPDES Permit No. RIR040100455

A draft of the 2012 Phase II Storm Water Annual Report prepared in accordance with the Rhode Island Pollution Discharge Elimination System (RIPDES) program general permit for storm water discharges from small municipal separate storm systems (MS4s) is available for review on the URI website.

Copies of the 2012 Phase II Storm Water Annual Report may be obtained by visiting the URI website at www.uri.edu and follow the links to the Facilities home page and selecting the Utilities Department.

For any questions or comments, please contact:

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