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**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	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.
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BMP ID 1A, B – URI AGREEMENT

The Rhode Island Department of Transportation's (RIDOT) Natural Resources Unit (NRU) was responsible for partnering with Rhode Island Department of Environmental Management (RIDEM) and the University of Rhode Island (URI), through their Nonpoint Education for Municipal Officials (NEMO) Program at the Cooperative Extension of the College of the Environment and Life Sciences, to provide training to State and Municipal officials, and to create a coordinated statewide public outreach message. The target audience consists of State and Municipal officials, watershed groups, residents, and RIDOT personnel.

Throughout 2013, RIDOT, RIDEM, and URI worked on drafting a new Agreement between these entities, which provides measurable goals, and a five year timeline, and a budget for implementation. **The Agreement was finalized and signed by all parties in June 2014. The Agreement continued throughout 2015.** The Agreement is structured so as to be funded for one (1) year, with the ability to extend the term to a total of five (5) years, pending funding availability. This Agreement is anticipated to constitute full compliance with Minimum Measure 1 of both the current and the next RIPDES General Permit during the term of the Agreement. [\[ATTACHMENT 1A\]](#)

A detailed summary of URI work has been provided for 2014 and 2015. [\[ATTACHMENT 1B\]](#)

RESPONSIBLE PARTIES - The University of Rhode Island is the primary entity responsible for the implementation of RIDOT's Public Education and Outreach Program with significant support & coordination from the RIDOT Natural Resources Unit and RIDEM.

EFFECTIVENESS This Minimum Measure work has been extremely effective. Both Municipal officials and RIDOT personnel have received effective, appropriate, and useful training through this initiative. URI NEMO has continued to provide very high quality training with support from RIDEM, RIDOT, and the URI Technology Transfer (T2) Center.

YEAR 13 (2016) EXPECTED ACTIONS - URI NEMO will continue to manage the training of the revised Rhode Island Soil Erosion and Sediment Control Handbook (RISESCH); continue development of a Linear LID Stormwater Design Manual; continue to provide stormwater training to Municipal and RIDOT staff; provide TMDL-specific trainings as needed; and provide children's public education relating to stormwater topics. RIDEM is an involved partner in this Agreement and has had an active role in developing it.

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.

2014 & 2015: URI NEMO provides Annual Reports each year to RIDOT & RIDEM, which includes the measurable goals set and agreed upon by RIDOT, RIDEM, and URI in the contract agreement, and the success towards each. [\[ATTACHMENT 1B\]](#)

Check all topics that were included in the Public Education and Outreach program during this reporting period. For each of the topics selected, provide the target pollutant (e.g. construction sites, total suspended solids):

Topic	Target Pollutant(s)
<input checked="" type="checkbox"/> Construction Sites	TSS; Nutrients; Heavy Metals
<input checked="" type="checkbox"/> Pesticide and Fertilizer Application	Nutrients
<input checked="" type="checkbox"/> General Stormwater Management Information	Nutrients; Bacterial; Toxics
<input checked="" type="checkbox"/> Pet Waste Management	Nutrients; Pathogens
<input checked="" type="checkbox"/> Household Hazardous Waste Disposal	Toxics
<input type="checkbox"/> Recycling	
<input checked="" type="checkbox"/> Illicit Discharge Detection and Elimination	TSS; Nutrients; Metals; pH
<input type="checkbox"/> Riparian Corridor Protection/Restoration	
<input type="checkbox"/> Infrastructure Maintenance	
<input checked="" type="checkbox"/> Trash Management	TSS; Solid Waste
<input checked="" type="checkbox"/> Smart Growth	All
<input checked="" type="checkbox"/> Vehicle Washing	Soap; TSS; Hydrocarbons
<input checked="" type="checkbox"/> Storm Drain Marking	Debris; TSS; Hydrocarbons
<input type="checkbox"/> Water Conservation	
<input checked="" type="checkbox"/> Green Infrastructure/Better Site Design/LID	All
<input type="checkbox"/> Wetland Protection	
<input type="checkbox"/> Other:	
<input type="checkbox"/> None	

Specific audiences targeted during this reporting period:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Public Employees | <input checked="" type="checkbox"/> Contractors |
| <input checked="" type="checkbox"/> Residential | <input checked="" type="checkbox"/> Developers |
| <input checked="" type="checkbox"/> Businesses | <input checked="" type="checkbox"/> General Public |
| <input type="checkbox"/> Restaurants | <input type="checkbox"/> Industries |
| <input type="checkbox"/> Other: | <input type="checkbox"/> Agricultural |

Additional Measurable Goals and Activities: Please list all stormwater training attended by your staff during the 2014 calendar year and list the name(s) and municipal position of all staff who attended the training.

Trainings: [ATTACHMENT 1C](#)

2014

Design Engineers Training 2014:

- December 9 - 10, 2014 – Stormwater Pollutant Chemistry, Monitoring, and BMP Effectiveness Training
M. DeRotto; M. Ouellette
- December 2nd, 2014 – Green Infrastructure for Localized Flood Management Webinar
P. Brooks

Design Environmental Training 2014:

- November 7, 2014 – Managing Storm Water on Construction Sites: Discharge Sampling, Inspecting BMPs, and Maintaining Sediment & Erosion Controls Webinar
A. Hamel
- December 2nd, 2014 – Green Infrastructure for Localized Flood Management Webinar
A. Hamel
- December 9 - 10, 2014 – Stormwater Pollutant Chemistry, Monitoring, and BMP Effectiveness Training
A. Hamel; M. Dahlquist

Construction Winter Training 2013/2014:

- None

Maintenance Training 2014:

- October 20, 2014 -- Vortech Unit inspection and maintenance
- October 20, 2014 – Illicit Connection Awareness

2015

Design Environmental Training 2015

- January 23, 2015 – Using The New Soil Erosion and Sediment Control Handbook
A. Hamel
- February 18, 2015 – Using Illicit Discharge Programs to Monitor Bacteria – Center for Watershed Protection Webinar. A. Hamel
- October 28, 2015 – Managing Storm Water on Construction and Industrial Sites: Discharge Sampling, Inspections, and BMP Implementation & Maintenance – Stormwater Solutions webcast
A. Hamel

Construction Winter Training 2014/2015:

- March 18, April 27, May 6, June 11, 2015 – Soil Erosion Control Plan Inspections, Illicit Discharges, and Construction Site Compliance
Presented by: RIDOT NRU, URI NEMO, URI Engineering, RIDEM
Attended by: RIDOT Construction Staff
- August 6 & 7: NHI 134080 Environmental Factors In Construction and Maintenance; Attendance list provided in **ATTACHMENT 1C**.
- October 28, 2015 – Managing Storm Water on Construction and Industrial Sites: Discharge Sampling, Inspections, and BMP Implementation & Maintenance – Stormwater Solutions webcast
J. Mombourquette

Maintenance Training 2015:

- August 6 & 7: NHI 134080 Environmental Factors In Construction and Maintenance. Attendance list provided in **ATTACHMENT 1C**.

RESPONSIBLE PARTIES - The University of Rhode Island is the primary entity responsible for the implementation of RIDOT's Public Education and Outreach Program with significant support & coordination from the RIDOT Natural Resources Unit and RIDEM RIPDES Program.

The Natural Resources Unit is the primary RIDOT entity responsible for the implementation of storm water management training within the RIDOT Construction Winter Training program and the RIDOT Maintenance Summer Training program; support from RIDOT Design, Construction, and Maintenance are also provided as needed. Going forward, the Office of Stormwater Management will be formed to manage MS4 Compliance. As part of that effort, the Office of Stormwater Management will coordinate with the Office of Professional Development and Training for environmental and stormwater training of RIDOT staff.

EFFECTIVENESS - This Minimum Measure work has been extremely effective. Both municipal officials and RIDOT personnel have received effective, appropriate, and useful training through this initiative.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT executed a new contract with URI and RIDEM in June, 2014. URI NEMO will manage the training of the newly revised Rhode Island Soil Erosion and Sediment Control Handbook (RISESCH); continue development of a Linear LID Stormwater Design Manual; continue

to provide stormwater training to Municipal and RIDOT staff; provide TMDL-specific trainings as needed; and provide children's public education relating to stormwater topics. RIDEM is an involved partner in this Agreement and has had an active role in developing it. A scope of work has been developed, and is included in the new Agreement. **ATTACHMENT 1A**

The RIDOT Office of Stormwater Management (OSM) will continue to provide stormwater education to RIDOT Construction, Maintenance, and Design personnel. RIDOT OSM will also continue to aid RIDEM and other State Agencies in stormwater education.

The Office of Professional Development and Training is committed to help meet RIDOT's professional development needs and will continue to offer learning opportunities and schedule training according to demand. The Natural Resources Unit has been coordinating with the Chief of the Office of Professional Development and Training to provide stormwater and environmental training to all of RIDOT staff through a "RIDOT 101" Training series which every existing and new RIDOT employee will be required to attend. Additional job-specific stormwater & environmental training will be provided through the "RIDOT 201" training series. It is anticipated that these training series will be developed over the next two to four years.

BMP ID 1C – RIDOT STORMWATER PROGRAM WEBSITE

RIDOT has continued to maintain the Stormwater Program web page on the RIDOT website.

In 2014, RIDOT completely redesigned the Department's website, including the Stormwater Program web page. The new page is located at <http://www.dot.ri.gov/about/stormwater.php>

In 2015, RIDOT continued to maintain the page, including posting the Consent Decree that became effective on 12/22/1025.

The primary on-line resource for Public Education and Outreach information will continue to be the "*Know Where It Goes*" website, created under the original RIDOT/RIDEM/URI Public Education and Outreach Agreement. The new Agreement provides funding for staff time for regular website maintenance of the "*Know Where It Goes*" campaign.

RESPONSIBLE PARTIES - The RIDOT Office of Communications, working with support from the Natural Resources Unit, is the primary RIDOT entity responsible for the updating of the RIDOT Stormwater Program web page. The University of Rhode Island NEMO is the primary entity responsible for the updating of the "*Know Where It Goes*" web site.

EFFECTIVENESS - This Minimum Measure is an effective tool to provide general information about storm water issues.

YEAR 13 (2016) EXPECTED ACTIONS - Update both websites as needed.



**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.
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BMP ID 2B – PUBLIC INVOLVEMENT

The RIDOT Natural Resources Unit (NRU) was responsible for partnering with RIDEM and URI, through their NEMO Program at the Cooperative Extension of the College of the Environment and Life Sciences, to provide a coordinated, statewide public outreach and involvement program. The target audience consists of State and Municipal officials, environmental & watershed groups, residents, and educational organizations.

Throughout 2013 & 2014, RIDOT, RIDEM, and URI continued to work on drafting a new Agreement between these entities, which provides measurable goals, and a five year timeline, and a budget for implementation. **The Agreement was finalized and signed by all parties in June 2014. The Agreement continued throughout 2015.** The Agreement is structured so as to be funded for one (1) year, with the ability to extend the term to a total of five (5) years, pending funding availability. This Agreement is anticipated to constitute full compliance with Minimum Measure 2 of both the current and the next RIPDES General Permit, with exception of the requirement for Public Notice of the Annual Report, during the term of the Agreement. **[ATTACHMENT 1A]**

A detailed summary of URI work has been provided for **2014 & 2015**. **[ATTACHMENT 1B]**

RESPONSIBLE PARTIES - The University of Rhode Island is the primary entity responsible for the implementation of RIDOT's Public Education and Outreach Program with significant support & coordination from the RIDOT Natural Resources Unit and RIDEM

EFFECTIVENESS - This Minimum Measure work has been extremely effective. Municipal officials, RIDOT personnel, and the general public have been given the opportunity to provide their input and insight on RIPDES requirements. URI NEMO has continued to provide very high quality training with support from both DEM and DOT and the URI T2 Center.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT executed a new contract with URI NEMO and RIDEM, in June 2014. Currently, it is anticipated that URI NEMO will manage the update of the newly revised Erosion and Sediment Control Handbook; continue development of a Linear LID Stormwater Design Manual; continue to provide municipal and RIDOT staff stormwater training; provide TMDL-specific trainings; and provide children's public education of stormwater topics. RIDEM is an involved partner in this Agreement and has an active role in developing the next Agreement. A scope of tasks has been developed, and is included in the new agreement **[ATTACHMENT 1A]** and detailed summary of URI work has been provided. **[ATTACHMENT 1B]**

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

<input type="checkbox"/> Cleanup Events	<input type="checkbox"/> Storm Drain Markings
<input type="checkbox"/> Comments on SWMP Received	<input type="checkbox"/> Stakeholder Meetings
<input type="checkbox"/> Community Hotlines	<input type="checkbox"/> Volunteer Monitoring
<input type="checkbox"/> Community Meetings	<input type="checkbox"/> Plantings
<input checked="" type="checkbox"/> Other (describe)	

The RIDOT Natural Resources Unit (NRU) was responsible for partnering with RIDEM and URI, through their NEMO Program at the Cooperative Extension of the College of the Environment and Life Sciences, to provide a coordinated, statewide public outreach and involvement program. This Agreement was resigned in 2014, and continued in 2015.

Public outreach, education, and involvement tools and techniques are provided on the website: www.RIstormwaterSolutions.org for MS4s and the general public.

Additional Measurable Goals and Activities:

BMP ID 2A – ADOPT-A-HIGHWAY PROGRAM

In 2014 & 2015, the RIDOT Maintenance Division has continued supporting both the Adopt-a-Highway and the Sponsor-a-Highway programs.

The Adopt-A-Highway Program (AAH) is geared for non-profit, volunteer groups such as environmental groups, students, boy/girl scouts and civic minded businesses. RIDOT Maintenance provides advanced warning signs, safety vests, litter picks and trash bags. RIDOT Maintenance Division also fabricates and installs signs for this program (small signs are free to not-for-profit organizations; larger signs are a charge). The Sponsor is responsible to do a minimum of 4 cleanups per year. The segments in the AAH Program are on secondary roads (no high speed routes or interstates).

- In 2014, the Adopt A Highway program had 100 Sponsors and for a total of 200 miles cleaned 4x per year.**
- In 2015, the Adopt A Highway program had 110 Sponsors and for a total of 220 miles cleaned 4x per year.**

The Sponsor-A-Highway Program (SAH) is geared toward businesses and there are currently two companies that the Department does business with, Adopt-A-Highway Maintenance Corporation (AAHMC) and Adopt-A-Highway Litter Removal Service of America, Inc. (AAHLRSA). AAHMC and AAHLRSA are both based out of California and they are active in many states. They both charge a monthly fee to each Sponsor for the sign panel (Catch the Wave- Ride with Pride) and they are obligated to clean each segment 19 times per year. There is a set schedule for each company to follow and the cleanups take place on Mondays throughout the year. All companies send electronic cleanup reports.

- In 2014, the Sponsor-A-Highway program had 25 Sponsored Segments. Through this program, over 2,200 bags of trash were picked up by two companies.**
- In 2015, the Sponsor-A-Highway program had 48 Sponsored Segments. Through this program, over 3,000 bags of trash were picked up by two companies.**

RESPONSIBLE PARTIES - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program; support from RIDOT Natural Resources Unit is provided as needed.

EFFECTIVENESS - RIDOT considers this BMP very effective in both public involvement and the reduction of floatables/trash along RIDOT roadways.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT Maintenance will continue this BMP

BMP ID 2C – PRISON CREW CLEANUPS

In 2014 & 2015, the RIDOT Maintenance Division has continued funding prison crew cleanups along RIDOT roadways.

- In 2013, RIDOT paid \$592,510 for prison crews and picked up 61,958 bags of litter.
- In 2014, RIDOT paid \$603,095 for prison crews and picked up 54,589 bags of litter.
- In 2015, RIDOT paid \$536,625 for prison crews and picked up 48,292 bags of litter.

Bag numbers are down in 2014 & 2015 due to the type of bags used. The new trash bags are bigger and of better quality, therefore they can fit more and do not tear as easily as compared to the old bags.

RESPONSIBLE PARTIES - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program; support from RIDOT Natural Resources Unit is provided as needed.

EFFECTIVENESS - RIDOT considers this BMP very effective in both public involvement and the reduction of floatables/trash along RIDOT roadways.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT will continue this BMP

BMP ID 2E – ENHANCEMENT PROGRAM

RIDOT is discontinuing the reporting of this Measure due to the inapplicability of this measure.

The recently adopted transportation bill - Moving Ahead for Progress in the 21st Century (MAP-21) - created the Transportation Alternatives Program (TAP), which combines the Transportation Enhancement Program with two other popular, non-traditional transportation programs; Safe Routes to School and the Recreational Trails Program.

The TAP Program provides funding for activities that include:

- On road/off road pedestrian and bicycle facilities;
- Infrastructure projects to improve/enhance non-driver mobility;
- Community improvement programs;
- Environmental mitigation;
- Recreational trails projects; and
- Safe Routes to School

The legacy projects in the former Transportation Enhancement Program are being implemented with funding left over from previous transportation funding efforts and MAP-21. These projects were selected and recommended by RIDOT's Transportation Enhancement Advisory Committee (TEAC), which conducted a thorough solicitation, outreach, and proposal evaluation process. All enhancement projects listed in the TIP are initiated through the development of a project agreement with the sponsor and/or the commencing of the design process. The funds to be allocated for each project as well as the year of anticipated implementation is available at <http://www.planning.state.ri.us/transportation/>. The implementation schedule is based on the information available to RIDOT and is subject to change. To expedite program implementation, RIDOT is given flexibility in advancing projects within the annual Enhancement budget when other projects are delayed.

RESPONSIBLE PARTIES - RIDOT Intermodal Planning Division is the primary RIDOT entity responsible for the implementation of this program; support from RIDOT Natural Resources Unit is provided as needed.

EFFECTIVENESS - RIDOT does not consider this BMP measure effective. RIDOT has limited control over what projects are submitted for Enhancement Program funding, and therefore cannot be held accountable for the lack of stormwater-related projects.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT will evaluate more suitable goals for this Program for the next RIPDES General Permit.

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

ATTACHMENT 2

Was the availability of this Annual Report and the Stormwater Management Program Plan (SWMPP) announced via public notice? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If YES, Date of Public Notice: FEBRUARY 8 - MARCH 8, 2016
How was public notified: <input type="checkbox"/> List-Serve (Enter # of names in List: _____) <input checked="" type="checkbox"/> Newspaper Advertising: ProJo legal Notice on 2/8/16 <input type="checkbox"/> TV/Radio Notices <input checked="" type="checkbox"/> Other: posted on the RIDOT Stormwater webpage Enter Web Page URL: www.dot.ri.gov – posted on 2/10/16	
Was public meeting held? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Where:
Date:	
Summary of public comments received: One request for the document was received; no comments were submitted.	
Planned responses or changes to the program: Minor revisions were made to the Document based on internal review by the Department, including: fixing of typos; an update to the Drainage Inspection RFP language (pg 12, 13, 22, & 24) because the method of procurement has changed from a 'RFP (Request for Proposals) to an "Agency Price Agreement (APA)" and it is expected to be posted in March; an update to applicable "Responsible Parties" sections to include the anticipated "Office of Stormwater Management" and the newly created "Asset Management Office".	



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

The Rhode Island Department of Transportation has signed a Consent Decree with the US Environmental Protection Agency and Department of Justice. The Consent Decree was entered by US Federal Court, and is effective as of December 22, 2015. The full Consent Decree may be viewed on the RIDOT Stormwater Management website at: <http://www.dot.ri.gov/about/stormwater.php>

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Runoff Controls, Good Housekeeping, and Total Maximum Daily Loads (TMDLs). The Consent Decree also requires semi-annual Compliance Reporting.

Where Consent Decree Remedial Measures overlap with RIPDES Minimum Measures, the RIDOT will report in the Consent Decree Compliance Report only.

Minimum Measure 3, IDDE: This report documents the RIDOT's measurable goals in 2014 and 2015. Going forward, and pending RIDEM approval, RIDOT proposes to document IDDE compliance in the Consent Decree Semi-Annual Reports only, as the Consent Decree Remedial Measure C covers all RIPDES Minimum Measure 3 requirements.

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.)

Responsible Party Contact Name: PETER HEALEY, PE
Phone: 401-222-2023 ext 4039 **Email:** peter.healey@dot.ri.gov

IV.B.3.b.1:	<p>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.)</p> <p>Number of Outfalls Mapped: 3814 - statewide Percent Complete: estimated 95% If 100% Complete, Provide Date of Completion: 2010</p>
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BMP ID 3A, 3B – OUTFALL MAPPING, GIS DATABASE

This measurable goal was completed in 2010. RIDOT required additional time to map its **entire** state-wide system. The Natural Resources Unit Summer Interns, supported by the MIS Office, inventoried outfalls through plan research and field data collection using GPS. To date, RIDOT has 3814 outfalls and associated photos in the GIS database. RIDOT NRU continues to use Summer Interns to verify and update the outfall database.

RESPONSIBLE PARTIES - The Natural Resources Unit was the primary RIDOT entity responsible for the implementation of this BMP; support from RIDOT Design, Construction, Maintenance, and MIS/GIS are also provided as needed. Going forward, the OSM will be the primary RIDOT entity responsible for the implementation for this BMP.

EFFECTIVENESS - RIDOT has mapped its entire outfall system – not just within the regulated areas. This has taken longer than the Permit allowance; however RIDOT felt that it was an acceptable alternative to achieve state-wide outfall coverage.

YEAR 13 (2016) EXPECTED ACTIONS - [Comply with EPA Consent Decree Remedial Measure C.](#)

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 2014 calendar year.
<p>N/A – RIDOT used GPS/GIS to develop outfall map</p>	
IV.B.3.b.3	Use the space below to provide a summary of the implementation of recording of 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.
<p><u>BMP ID 3C – RECORDING OF ADDITIONAL ELEMENTS</u></p>	
<p>In 2014, the Natural Resource Unit's summer interns worked with RIDEM interns to continue implementation of the Municipal Mapping Assistance Program (MMAP). In 2014, the MMAP interns mapped the catchment of the Greenwich Bay outfalls with the town of Warwick.</p>	
<p>In 2015, RIDOT contracted with Data Transfer Solutions, LLC to inventory catch basins and manholes. Catch basins and manholes, along with other RIDOT assets, were identified from video-logs and geo-registered. GIS data layers have been developed, and are currently in the QA/QC process. Final data inventory will be complete by March 31, 2016.</p>	
<p>In 2015, RIDOT contracted with Data Transfer Solutions, LLC to develop the VueWorks Drainage Module. This module will provide RIDOT with means to manage the scheduling and documentation of the inventory, inspections, maintenance, & repair of all drainage structures (catchbasins, manholes, pipes, outfalls, STUs, etc) and IDDE investigations.</p>	
<p>In 2015, RIDOT developed an Agency Price Agreement (APA) for Drainage System inspections, which will identify additional elements of the RIDOT drainage system and catalogue the condition of the system. The APA is expected to be released in March 2016, with a start-work date of 4/1/16.</p>	
<p>In 2016, inventory, inspection, and maintenance efforts will be documented in the Consent Decree Compliance report.</p>	
<p>In 2013, a pilot project including newly developed specifications to clean/inspect/repair the drainage system received funding through the RICAP program, and was advertised for construction. This work within the I-295 corridor was initiated in 2013. As part of the 'inspection' of catch basins, GPS coordinates and connecting pipes and outfall information will be documented. The I-295 contract will be used as a template for future construction projects, where appropriate, and these specifications will be routinely utilized by the RIDOT and the resulting data will be made available to the Maintenance Division and Regulatory agencies. In 2014, the I-295 contract was completed and the data reviewed and accepted.</p>	
<p>It is anticipated that more of these types of contracts may be developed for compliance with the Consent Decree and RIPDES permit.</p>	
<p>In 2016, all efforts will be documented in the Consent Decree Compliance report.</p>	
<p>RESPONSIBLE PARTIES - The Natural Resources Unit, the MIS/GIS Office, Design, Construction, and the Maintenance Division were the primary RIDOT entities responsible for the implementation of this BMP. Going forward, the Office of Stormwater Management and the Maintenance Division will be the primary RIDOT entities responsible for this BMP.</p>	
<p>EFFECTIVENESS - Mapping system elements as part of IDDE investigations, new construction projects, or catch basin inspection/maintenance has not been effective for RIDOT due to the size and complexity of the RIDOT drainage system. A broader, systematic approach to mapping/inspecting/ cleaning/repairing the State system in a discrete time-period is required by the EPA Consent Decree.</p>	
<p>YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure C.</p>	

IV.B.3.b.4	<p>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: n/a If the Ordinance was amended in 2014/2015, please indicate why changes were necessary.</p>
<p align="center">N/A – RIDOT does not have regulatory authority to develop and implement ordinances.</p>	
IV.B.3.b.5.ii, iii, iv, & v	<p>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.</p>
<p><u>BMP ID 3D – DEVELOP & IMPLEMENT IDDE PLAN</u></p> <p>In compliance with the Consent Decree Remedial Measure C, RIDOT submitted an IDDE Plan to the US Department of Justice, the US EPA, and RIDEM on December 30, 2015. RIDOT is awaiting comments. Reporting on this effort will be part of the Consent Decree Compliance report.</p> <p>RESPONSIBLE PARTIES - The Natural Resources Unit is the primary RIDOT entity responsible for the implementation of this plan; with support from RIDOT Design, Construction, and Maintenance are also provided as needed. Going forward, the Office of Stormwater Management and the Maintenance Division will be the primary RIDOT entities responsible for this BMP.</p> <p>EFFECTIVENESS - RIDOT considers the IDDE plan an effective guidance document.</p> <p>YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure C.</p>	
IV.B.3.b.5.vi	<p>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.</p> <p>Number of Catch Basins and Manholes Inspected for illicit connections/IDDE: will report in 2016 after implementation of VueWorks</p> <p>Percent Complete: will report in 2016 after implementation of VueWorks</p> <p>Date of Completion: Anticipated 2018</p>
<p>In 2014 and 2015, RIDOT inspected catch basins as part of regular Maintenance activities, and during Design and Construction projects involving drainage components.</p> <p>In 2015, RIDOT contracted with Data Transfer Solutions, LLC to develop the VueWorks Drainage Module. This module will provide RIDOT with means to manage the scheduling and documentation of the inventory, inspections, maintenance, & repair of all drainage structures (catchbasins, manholes, pipes, outfalls, STUs, etc) and IDDE investigations.</p> <p>In 2015, RIDOT developed an Agency Price Agreement (APA) for Drainage System inspections, which will inspect the RIDOT drainage system for operational and environmental condition (which includes illicit connections). The APA is expected to be released in March 2016, with a start-work date of April 1, 2016. Data will be collected/managed in the VueWorks System.</p> <p>Reporting of this effort will be part of the Consent Decree Compliance report.</p> <p>RESPONSIBLE PARTIES - The RIDOT Natural Resources Unit, Maintenance Division, Construction Division, Office of Stormwater Management, and the Asset Management Office are all responsible for the implementation of this plan.</p> <p>EFFECTIVENESS - This is a new program that is being rolled out in 2016; effectiveness is to be determined.</p> <p>YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure C.</p>	

IV.B.3.b.5.vii	<p>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 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.</p> <p>Number of Outfalls Surveyed once: 3814 Number of Outfalls Surveyed twice: 90+ Percent Complete: unknown %</p>
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90+BMP ID 3E, F – Outfall Surveys / Sampling

In 2014 and 2015, RIDOT did not sample outfalls. This Minimum Measure will be guided by the EPA Consent Decree. **Reporting on this effort will be part of the Consent Decree Compliance report.**

RESPONSIBLE PARTIES - RIDOT Natural Resources Unit is the primary RIDOT entity responsible for the implementation of this program; support from RIDOT Maintenance, GIS, Design, & Construction is provided as needed. **Going forward, the Office of Stormwater Management and the Maintenance Division will be the primary RIDOT entities responsible for this BMP.**

EFFECTIVENESS - New Consent Decree requirements require a new program in 2016; effectiveness is to be determined.

YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure C.

IV.B.3.b.7	<p>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 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.</p>
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RIDOT NRU works with other MS4 Coordinators, and with the RIDEM Office of Compliance and Inspection (OC&I) to investigate dry weather discharges and possible illicit connections. RIDOT provides plans and field support when requested by either the MS4 or OC&I.

RESPONSIBLE PARTIES - RIDOT Natural Resources Unit is the primary RIDOT entity responsible for the implementation of this program; support from RIDOT Maintenance, GIS, Design, & Construction is provided as needed. **Going forward, the Office of Stormwater Management and the Maintenance Division will be the primary RIDOT entities responsible for this BMP.**

EFFECTIVENESS - RIDOT considers the coordination with MS4s and RIDEM OC&I an extremely effective effort.

YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure C.

IV.B.3.b.8	<p>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.</p>
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No referrals were made to DEM in 2014 or 2015. **Reporting of this effort will be part of the Consent Decree Compliance report.**

RESPONSIBLE PARTIES - RIDOT Natural Resources Unit is the primary RIDOT entity responsible for the implementation of this program; support from RIDOT Maintenance, GIS, Design, & Construction is provided as needed. **Going forward, the OSM will be the primary RIDOT entities responsible for this BMP.**

EFFECTIVENESS - RIDOT considers the coordination with other MS4s and RIDEM an effective effort.

YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure C.

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

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.
This requirement is covered under the URI NEMO Agreement and RIDOT Winter (Construction) & Summer (Maintenance) Training (Please see Minimum Measure 1).	
Additional Measurable Goals and Activities	
<u>BMP ID 3D – EXISTING/FUTURE CONNECTIONS</u>	
<p>The Design Office & Maintenance Division oversees the drainage discharges to the RIDOT system accounted for through the Physical Alteration Permit Application (PAPA) process. Issuance of a Physical Alteration Permit (PAP) by RIDOT is required whenever a private party desires to make a physical change to any State owned Right of Way (ie: for a curb cut, or to add drainage to the State system, etc). The PAPA process does not typically allow for any net increase in peak flow or runoff volume to be routed to any component of an existing RIDOT drainage system.</p> <p>In 2006, PAP's issued from 2002-2006 were reviewed and each documented connection into the RIDOT system was inspected, geo-located utilizing a GPS unit, and documented. A revised policy for PAP policy/regulation was established in Year 3 (2006) to include geo-referencing of proposed drainage interconnections. The PAP records may be reviewed during an illicit discharge investigation to aid in identification of existing contributors.</p> <p>In 2013, there were 135 PAPA's either issued by RIDOT, or recommended for approved by the Design Section. Of these, there were 12 permits issued for a total of 14 interconnections to RIDOT's drainage system.</p> <p>In 2014, there were 85 PAPA's either issued by RIDOT, or recommended for approved by the Design Section. Of these, there were 7 permits issued for a total of 9 interconnections to RIDOT's drainage system.</p> <p>In 2015, there were 95 PAPA's either issued by RIDOT, or recommended for approved by the Design Section. Of these, there were 14 permits issued for a total of 16 interconnections to RIDOT's drainage system.</p> <p>RESPONSIBLE PARTIES - RIDOT Highway Design & Maintenance Division are the primary RIDOT entity responsible for the implementation of this program; support from RIDOT Natural Resources Unit and GIS is provided as needed.</p> <p>EFFECTIVENESS - RIDOT considers this effort effective.</p> <p>YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure C.</p>	

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

# of Illicit Discharges Identified in	2014: 0	2015: 0	# of Illicit Discharges Tracked in 2014:	2014: 0	2015: 0
# of Illicit Discharges Eliminated in	2014: 0	2015: 0	# of Complaints Received:	2014: 1	2015: 0
# of Complaints Investigated in:	2014: 0	2015: 4	# of Violations Issued:	2014: 0	2015: 0
# of Violations Resolved in:	2014: 0	2015: 0	# of Unresolved Violations Referred to RIDEM:	2014: 0	2015: 0
Total # of Illicit Discharges Identified to Date (since 2003): 0			Total # of Illicit Discharges remaining unresolved at the end of 2014:	2014: 1	2015: 1
<p>RIDOT has not identified any illicit discharges. RIDOT has investigated four illicit connections, but have not determined them to be illicit discharges. At this time, it appears that the connections are discharging clean stormwater. Further investigation is underway. Reporting of this effort will be part of the Consent Decree Compliance report.</p> <p>Route 44 / Putnam Pike – See [ATTACHMENT 3A]</p> <p>Main St. Pascoag - See [ATTACHMENT 3B]</p>					

Summary of Enforcement Actions: None.
Extent to which the MS4 system has been mapped: Outfalls: 95% completion for easy-access, standard DOT roadways; 95% divided highway/limited access DOT roadways Catchbasins & Manholes: GIS inventory 95% completion (via Right-of-Way images); awaiting finalization of QA/QC – anticipated by March 1, 2016 Total # of Outfalls Identified and Mapped to date: 3814

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:
Please See PAPA records. [ATTACHMENT 3C]					



**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.)

Responsible Party Contact Name: Joseph Baker, PE

Phone: 401-222-2468 x4202 **Email:** joseph.baker@dot.ri.gov

IV.B.4.b.1	<p>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.</p> <p>Date of Adoption: N/A</p> <p>If the Ordinance was amended in 2015, 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. N/A</p>
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RIDOT does not have authority to develop &/or adopt ordinances. RIDOT relies on the RIDOT Standard Specifications for Road and Bridge Design and Other Specifications, Contract Specific and Job Specific Specifications, and the RIPDES General Permit for Storm Water Discharge Associated with Construction Activity for compliance with this measure.

The RIPDES General Permit for Storm Water Discharge Associated with Construction Activity requires sediment and erosion control and other waste control at construction sites. As the RIPDES permit requirement is met by the Construction General Permit, RIDOT has focused on creating standardized construction site Soil Erosion & Sediment Control (SESC) Plan templates, which have been in use at RIDOT since 2008 and have been made available to all MS4s via a training session in August 2009. RIDOT created both a Large Site Soil Erosion & Sediment Control (SESC) Plan Template for projects with over an acre of soil disturbance (required by the General Permit), and a Small Site Soil Erosion & Sediment Control (SmallSESC) Plan Template for projects with less than an acre of soil disturbance (not required by the General Permit, but enacted by RIDOT to further control erosion and sedimentation at our Construction sites). Note: These plans and plan templates were previously known as Site Specific Stormwater Pollution Prevention Plans (SWPPP's).

RIDOT Construction personnel received training on the updated SESC Plans and inspection requirements as part of Winter Construction Training in 2015. RIDOT Construction personnel also received specialized training on the "Environmental Results/Compliance Assistance Program (CAP)". Please see Minimum Measure 1.

In 2014, RIDOT initiated a URI research project to investigate implementation of a revised model of the RIDEM "Environmental Results/Compliance Assistance Program (CAP)" on RIDOT Construction Sites. Please see ATTACHMENT 4A for 2014/2015 Annual Report.

RESPONSIBLE PARTIES - RIDOT Design, Construction, and the Natural Resources Unit are the primary RIDOT entities responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers the SESC Plan templates successful, however full implementation still remains inconsistent; RIDOT considers the update of the 1989 E&S Handbook to be a valuable effort.

YEAR 13 (2016) EXPECTED ACTIONS - Continue RIDOT training on SESC Plans and inspection requirements; Continue the URI-Eng Compliance Assistance Program classroom and field training; Continue efforts with RIDEM and Construction Industries of Rhode Island (CIRI) to develop and offer Contractor stormwater awareness and compliance training.

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.

RIDOT's Executive Office includes a Customer Service Office. The purpose of the Customer Service Office is to keep information lines open between the citizens of Rhode Island and RIDOT. We hope to inform, assist, and coordinate our efforts with the general public, cities/towns, businesses, chambers of commerce, public and private organizations, and elected officials during all phases of transportation projects, from concept through completion, to lessen both construction inconveniences and economic impacts. We will strive to produce an effective public information program incorporating such tools as public meetings, project brochures and informational handouts concerning our roads and bridges. Our web site will continue to post up-to-date information on the progress of our projects. The Customer Service Office will also respond to any questions or concerns the public may have regarding the Department of Transportation. The Customer Service Office may be contacted via phone, email, or the RIDOT website: <http://www.dot.state.ri.us/custserv/index.html>.

RESPONSIBLE PARTIES - RIDOT Office of Customer Service, Design Section, Construction Section, and the Natural Resources Unit are the primary RIDOT entities responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this effort effective.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT will continue this effort.

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.

RIDOT requires the Prime Contractor awarded each construction contract that includes an SESC Plan to sign the plan as "Operator.". Any sub-contractor involved in earthwork is also required to sign a signature page acknowledging SESC Plan requirements.

RIDOT has implemented a revised Job-Specific Specification that applies a tiered fine for non-compliance with the Maintenance and Cleaning of Erosion and Pollution Controls. This Specification will remain Job Specific in order to be tailored to meet the requirements of each individual contract.

RESPONSIBLE PARTIES - RIDOT Design, Construction, and the Natural Resources Unit are the primary RIDOT entities responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this effort effective.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT will continue this effort.

Additional Measurable Goals and Activities

BMP ID 4A – E, H – J – REVIEW/REVISE RIDOT POLICIES

RIDOT additional BMPs (RIDOT SWMPP 4A – E; H-J) have been informally adopted. Although the Standard Specifications have not been formally revised, the BMPs have been implemented in a manner such that legal responsibility is placed on the Contractors to follow environmental permits, conditions, and requirements. RIDOT has implemented many of the BMPs via the Job Specific (J-S) pages or the Contract Specific (C-S) pages of the Contract Documents. RIDOT has also drafted a revised Environmental Protection specification (Section 104.15 of the RIDOT Standard Specifications) to further clarify what is required of State contractors bidding on RIDOT construction projects. This specification, along with the entire Chapter it is part of, are under Legal review, which must be completed prior to adoption.

Both Construction Site SESC Plan Templates (large-site and small-site) are being utilized for RIDOT Construction projects. Job Specific and Contract Specific pages include specific requirements regarding additional, or more

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL cont'd

specific, specifications regarding environmental protection. The Natural Resources Unit ensures that the JS and/or CS pages include the environmental protection language in all applicable contracts.

RIDOT has reviewed the BMPs originally provided in the SWMPP Measure 4 – Construction Site Runoff Control, and feels that the spirit of the BMPs are satisfied with the Standard Specification section 104.15 revision, the inclusion of environmental protection language in to J-S and C-S pages, and the development and use of the Construction Site SESC Plan templates.

BMP ID 4G – EROSION AND SEDIMENTATION CONTROL TRAINING

Please see Minimum Measure 1.

BMP ID 4K, 4L – WASTE CONTROL TRAINING

The standard specifications require proper control and disposal of construction site waste. The Resident Engineer is responsible for ensuring these specifications are met onsite; training is provided as part of the Construction Winter Training Series. Please see Minimum Measure 1.

BMP ID 4M, 4N, 4O – PRE-CONSTRUCTION MEETINGS

The NRU attends meetings with Construction Contractors (ie “Operators”) prior to construction commencement to review environmental constraints and permit conditions.

RESPONSIBLE PARTIES - RIDOT Design, Construction, and the Natural Resources Unit are the primary RIDOT entities responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this effort effective.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT will continue this effort.

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 12 (2015), 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 must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

# of Construction Reviews completed:	100% of applicable project plans are reviewed by the RIDOT Natural Resources Unit for water quality impacts, RIPDES General Permit, and RIPDES Construction General Permit requirements.
# of Permits/Authorizations issued:	
% of Total:	

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 NRU reviews engineering drawings and SESC Plans as part of the design review and permitting process. RIDOT is required to submit plans to DEM, CRMC, ACOE, etc for permits.

RESPONSIBLE PARTIES - The RIDOT Natural Resources Unit is the primary RIDOT entity responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this effort effective.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT will continue this effort.

SECTION II.B - Erosion and Sediment Control Inspections during Year 11 (2014), 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 Active Construction Projects: 2014: 100 2015: 86	
# of Site Inspections: 2014 & 2015: 620 reported for 37 active construction contracts	# of Complaints Received: 2014 & 2015: 15
# of Violations Issued: 2014 & 2015: 5	# of Unresolved Violations Referred to RIDEM: 2014 & 2015: 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.

RIDOT Construction projects that disturb an area greater than one acre are required to have Soil Erosion & Sediment Control (SESC) Plans under the RIPDES Construction General Permit. SESC Plans require erosion and sedimentation control inspections on a weekly basis, and after a storm event. RIDOT hires consultant inspectors to perform SESC Plan inspections on RIDOT construction projects. Each active construction project with an SESC Plan has weekly &/or storm event E&S monitoring.

RIDOT Construction projects that disturb an area less than one acre are required to have a Small Site Soil Erosion & Sediment Control (SmallSESC) Plans. Small SESC require erosion and sedimentation control inspections on a weekly basis, and after a storm event. RIDOT Resident Engineers (or a designated inspector) perform the inspections on RIDOT construction projects.

Final Inspections are conducted on every RIDOT construction project, and are attended when possible by appropriate personnel from the Finals, Maintenance, Design, Construction, and Environmental sections. If any drainage work, BMP, or proper stabilization is noted as not being correctly installed/established, the contractor is notified of this as part of a "Punch List" and must remedy the issue before Final Acceptance is granted. Final payment is based on this Final Acceptance.

In 2014, there were 52 Final Inspections.

In 2013, there were 58 Final Inspections.

[\[ATTACHMENT 4B\]](#)

In 2014, RIDOT initiated a URI research project to investigate implementation of a revised model of the RIDEM "Environmental Results Program" on RIDOT Construction Sites. Please see ATTACHMENT 4A for 2015 Annual Report. Inspection Results and specialized training were utilized to reinforce the effectiveness of good practices and procedures and to correct deficiencies.

RIDEM Inspected Five (5) RIDOT sites from July to October 2015. Three (3) of Five (5) met the definition of Significant Non-Compliance and were referred to OCI for formal enforcement. 2 of 5 resolved outstanding issues in a timely manner.

RIDOT Barton Corner Bridge – Inspected 7/17/2015 → enforcement

RIDOT Route 1 Pier Caps - Inspected 7/20/2015 → resolved

RIDOT Providence Viaduct – Inspected 8/28/2015 → resolved

RIDOT Great Island Bridge – Inspected 9/17/2015 → enforcement

RIDOT Apponaug Circulator – Inspected 9/30/2015 → enforcement

RIDOT is working with URI-NEMO to develop additional training.



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

The Rhode Island Department of Transportation has signed a Consent Decree with the US Environmental Protection Agency and Department of Justice. The Consent Decree was entered by US Federal Court, and is effective as of December 22, 2015. The full Consent Decree may be viewed on the RIDOT Stormwater Management website at: <http://www.dot.ri.gov/about/stormwater.php>

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Runoff Controls, Good Housekeeping, and Total Maximum Daily Loads (TMDLs). The Consent Decree also requires semi-annual Compliance Reporting.

Where Consent Decree Remedial Measures overlap with RIPDES Minimum Measures, the RIDOT intends to report in the Consent Decree Compliance Report.

Minimum Measure 5, Post Construction Stormwater Management: This report documents the RIDOT's measurable goals in 2014 and 2015. Going forward and pending RIDEM approval, RIDOT proposes to document MM5 compliance in the Consent Decree Compliance Reports only, as the Consent Decree Remedial Measure D covers all RIPDES Minimum Measure 5 requirements.

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:	
<p>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.</p> <p>(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)</p> <p>Responsible Party Contact Name: PETER HEALEY, PE Phone: 401-222-2023 ext 4039 Email: peter.healey@dot.ri.gov</p> <p>Responsible Party Contact Name: JOSEPH BUCCI, PE Phone: 401-734-4800 Email: joseph.bucci@dot.ri.gov</p>	
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.
<p>RIDOT NRU coordinates with RIDEM, CRMC, Army Corps, RIDEM, F&W, etc as necessary.</p> <p>RESPONSIBLE PARTIES - RIDOT Natural Resources Unit is the primary RIDOT entities responsible for the implementation of this program.</p> <p>EFFECTIVENESS - RIDOT considers this effort effective.</p> <p>YEAR 13 (2016) EXPECTED ACTIONS - RIDOT will continue this effort going through the Office of Stormwater Management.</p>	
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 RIPDES Rule 31(b)(15) (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).
Not applicable to RIDOT	

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

IV.B.5.b.9	<p>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.</p> <p>Date of Adoption: N/A</p> <p>If the Ordinance was amended in 2015, please indicate why changes were necessary. <i>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.</i></p>
Not applicable to RIDOT	
IV.B.5.b.12	<p>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.</p>
<p><u>BMP ID 5C – IDENTIFICATION OF EXISTING STRUCTURAL BMPS & BMP ID 5B – MAINTENANCE AND CLEANING OF STRUCTURAL BMPS</u></p> <p>In 2015, RIDOT contracted with Data Transfer Solutions, LLC to develop the VueWorks Drainage Module. This module will provide RIDOT with means to manage the scheduling and documentation of the inventory, inspections, maintenance, & repair of all drainage structures (catchbasins, manholes, pipes, outfalls, STUs, etc) and IDDE investigations.</p> <p>In 2015, RIDOT developed an Agency Price Agreement (APA) for Drainage System inspections, which will inspect the RIDOT drainage system for operational and environmental condition (which includes illicit connections). The APA is expected to be released in March 2016, with a start-work date of April 1, 2016. Data will be collected/managed in the VueWorks System.</p> <p>In 2016, these efforts effort will be documented in the Consent Decree Compliance report.</p> <p>RESPONSIBLE PARTIES - The RIDOT Natural Resources Unit, Maintenance Division, Office of Stormwater Management, and the Asset Management Office are all responsible for the implementation of this project.</p> <p>EFFECTIVENESS - RIDOT considers the implementation of the VueWorks System in Maintenance an effective method to ensure long term operation and maintenance of the storm water treatment units.</p> <p>YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure D.</p>	
<p>Additional Measurable Goals and Activities</p> <p><u>IV.B.5.B.2; BMP ID 5A: MEETING WATER QUALITY STANDARDS</u></p> <p>Current RIDOT policy requires that all new construction meet the State water quality standards for pollutant removal from storm water and redevelopment projects must incorporate BMPs to improve storm water quality to the maximum extent practicable. Management of post-construction runoff is incorporated into project designs. Applicable RIDOT projects are required to follow all federal, state, and local regulations, including the use of the 2010 RIDEM/CRMC <u>Rhode Island Stormwater Design and Installation Standards Manual</u> for the design of construction projects.</p> <p>RESPONSIBLE PARTIES - RIDOT Design and Natural Resources Unit are the primary RIDOT entities responsible for the implementation of this program.</p> <p>EFFECTIVENESS - RIDOT considers this effort effective.</p> <p>YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measures (all affect meeting water quality standards) and applicable RIDEM requirements relating to the 2010 RISDISM.</p>	

IV.B.5.B.4 – REVIEW OF PLANS

Current RIDOT policy requires that all new construction meet the State water quality standards for pollutant removal from storm water and redevelopment projects must incorporate BMPs to improve storm water quality to the maximum extent practicable. Management of post-construction runoff is incorporated into project designs. RIDOT’s Natural Resource Unit reviews all construction design plans to determine if Permits from regulatory agencies (RIDEM, CRMC, ACOE, Coast Guard, etc) are required.

RESPONSIBLE PARTIES - RIDOT Natural Resources Unit is the primary RIDOT entity responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this effort effective.

YEAR 13 (2016) EXPECTED ACTIONS - **Comply with EPA Consent Decree Remedial Measure D and applicable RIDEM requirements relating to the 2010 RISDISM.**

SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 12 (2015), 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).

<p># of Post-Construction Reviews completed: # of Permits/Authorizations issued: NA % of Total:</p>	<p>100% of applicable project plans are reviewed by the RIDOT Natural Resources Unit for water quality impacts, RIPDES General Permit, and RIPDES Construction General Permit requirements.</p>
<p>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.</p> <p>Engineering drawings and SESC Plans are reviewed by RIDOT Design and NRU before contract award. Post-construction storm water BMPs are reviewed at that time. Please see Minimum Measure 4, Section III.</p> <p>RESPONSIBLE PARTIES - RIDOT Natural Resources Unit & Design are the primary RIDOT entities responsible for the implementation of this program.</p> <p>EFFECTIVENESS - RIDOT considers this effort effective.</p> <p>YEAR 13 (2015) EXPECTED ACTIONS - RIDOT will continue this effort.</p>	

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

SECTION II.B. - Post Construction Inspections during Year 12 (2015), 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 Active Construction Projects: 2014: 3 2015: 2	
# 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 Enforcement Actions:	
<p><u>BMP ID 5D, 5E</u></p> <p>Every RIDOT Construction project receives a Final Inspection before final payment. Final Inspections are typically attended by Design, Construction, and Maintenance personnel. Environmental personnel attended when appropriate. [ATTACHMENT 4B]</p> <p>RESPONSIBLE PARTIES - RIDOT Final Inspections Division, Construction, Maintenance, Design and the Natural Resources Unit are the primary RIDOT entities responsible for the implementation of this program.</p> <p>EFFECTIVENESS - RIDOT considers this effort effective.</p> <p>YEAR 13 (2016) EXPECTED ACTIONS - RIDOT will continue this effort as part of Minimum Measure 4.</p>	

SECTION II.C. - Post Construction Inspections during Year 12 (2015), 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: 2014: 0 2015: 0	# of Complaints Received: 2014: 0 2015: 0
# of Violations Issued: 2014: 0 2015: 0	# of Unresolved Violations Referred to RIDEM: 2014: 0 2015: 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.	
<p>In 2015, RIDOT contracted with Data Transfer Solutions, LLC to develop the VueWorks Drainage Module. This module will provide RIDOT with means to manage the scheduling and documentation of the inventory, inspections, maintenance, & repair of all drainage structures (catchbasins, manholes, pipes, outfalls, STUs, etc) and IDDE investigations.</p> <p>In 2015, RIDOT developed an Agency Price Agreement (APA) for Drainage System inspections, which will inspect the RIDOT drainage system for operational and environmental condition (which includes illicit connections). The APA is expected to be released in March 2016, with a start-work date of April 1, 2016. Data will be collected/managed in the VueWorks System.</p> <p>RIDOT Maintenance will include the BMP database in their Asset Management System (VueWorks). Proper inspection and maintenance of post-construction stormwater controls is covered under the Consent Decree Remedial Measure D. In 2016, these efforts effort will be documented in the Consent Decree Compliance report.</p> <p>RESPONSIBLE PARTIES - The RIDOT Natural Resources Unit, MIS/GIS Office, Maintenance Division, Office of Stormwater Management, and the Asset Management Office are all responsible for the implementation of this project.</p> <p>EFFECTIVENESS - RIDOT considers this effort will be effective once implemented in to the Maintenance Asset Management System.</p> <p>YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure D.</p>	



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

The Rhode Island Department of Transportation has signed a Consent Decree with the US Environmental Protection Agency and Department of Justice. The Consent Decree was entered by US Federal Court, and is effective as of December 22, 2015. The full Consent Decree may be viewed on the RIDOT Stormwater Management website at: <http://www.dot.ri.gov/about/stormwater.php>

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Runoff Controls, Good Housekeeping, and Total Maximum Daily Loads (TMDLs). The Consent Decree also requires semi-annual Compliance Reporting.

Where Consent Decree Remedial Measures overlap with RIPDES Minimum Measures, the RIDOT intends to report in the Consent Decree Compliance Report.

Minimum Measure 6, Pollution Prevention and Good Housekeeping: This report documents the RIDOT's measurable goals in 2014 and 2015. Going forward and pending RIDEM approval, RIDOT proposes to document duplicative MM6 compliance in the Consent Decree Compliance Reports only. The RIPDES Minimum Measure 6 requirements that are not covered by the Consent Decree (highlighted in yellow, below) will continue to be reported in the RIPDES MS4 Annual Report.

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.)

Responsible Party Contact Name: JOSEPH BUCCI, ACTING ADMINISTRATOR HIGHWAY AND BRIDGE MAINTENANCE

Phone: 401-734-4800 **Email:** joseph.bucci@dot.ri.gov

IV.B.6.b.1.i	Use the space below to 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.
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Do you have an inventory of MS4-owned BMPs? YES NO

The NRU and the Design Section have identified RIDOT BMPs through plan inspection and contract document searches. An Access Database was developed by the NRU to document the BMP inventory, inspection, and maintenance (a copy of the database was provided as an attachment to the 2012 Annual Report; data has not changed). This data will be used in the VueWorks Asset Management System.

RESPONSIBLE PARTIES – The RIDOT Natural Resources Unit, MIS/GIS Office, Maintenance Division, Office of Stormwater Management, and the Asset Management Office are all responsible for the implementation of this project.

EFFECTIVENESS - RIDOT considers the implementation of VueWorks will be effective to document existing BMPs, implement an inspection program, and document maintenance activities.

YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure D.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.1.ii	<p>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.</p> <p>Do you have a system for tracking:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">a. Inspection schedules of MS4-owned BMPs?</td> <td style="width: 10%;"><input type="checkbox"/> YES</td> <td style="width: 10%;"><input checked="" type="checkbox"/> NO</td> <td style="width: 20%;">under development</td> </tr> <tr> <td>b. Maintenance/cleaning schedules of MS4-owned BMPs?</td> <td><input type="checkbox"/> YES</td> <td><input checked="" type="checkbox"/> NO</td> <td>under development</td> </tr> <tr> <td>Repairs, corrective actions needed?</td> <td><input type="checkbox"/> YES</td> <td><input checked="" type="checkbox"/> NO</td> <td>under development</td> </tr> <tr> <td>Complaints?</td> <td><input checked="" type="checkbox"/> YES</td> <td><input type="checkbox"/> NO</td> <td></td> </tr> </table> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>RIDOT has previously tracked inspections, cleanings, and repairs in Excel spreadsheets or on paper forms. Going forward in 2016, RIDOT will exclusively use the VUEWORKS Maintenance Management System to document all efforts with all drainage structures (catch basins, manholes, outfalls, STUs, etc.). This effort is required as part of the EPA Consent Decree, and will be documented in Consent Decree Annual Reports.</p>	a. Inspection schedules of MS4-owned BMPs?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	under development	b. Maintenance/cleaning schedules of MS4-owned BMPs?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	under development	Repairs, corrective actions needed?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	under development	Complaints?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
a. Inspection schedules of MS4-owned BMPs?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	under development														
b. Maintenance/cleaning schedules of MS4-owned BMPs?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	under development														
Repairs, corrective actions needed?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	under development														
Complaints?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO															

BMP IDs 6F, 6G, 6H, 6I, 6J, 6M, 6N, 6O, 6P, 6Q, 6R

All RIDOT BMPs have been inspected and were cleaned as necessary in 2010. RIDOT STUs installed on currently active Construction sites are cleaned as part of the final acceptance requirements. In 2012, RIDOT NRU interns reviewed the database to ensure QA/QC. The updated database will be used as the base data for the newly configured VueWorks Management Program.

This effort is required as part of the EPA Consent Decree, and will be documented in Consent Decree Annual Reports.

RESPONSIBLE PARTIES - The RIDOT Natural Resources Unit, MIS/GIS Office, Maintenance Division, Office of Stormwater Management, and the Asset Management Office are all responsible for the implementation of this project.

EFFECTIVENESS - RIDOT considers the BMP Monitoring Contract an effective one-time-baseline inspection/cleaning effort. RIDOT anticipates the VueWorks system will be an effective tool to schedule and document BMP inspections and maintenance work.

YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure D.

IV.B.6.b.1.iii	<p>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.</p> <p>Total # of CBs within regulated area (including SRPW and TMDL areas): estimated over 16,000 CBs in RIPDES Permit Area and stormwater impacted TMDL/Impaired watersheds; unknown # of Manholes at this time</p> <p>Total # of CBs/MHs inspected in 2014: 1039 2015: 659</p> <p>Total # of CBs/MHs cleaned in in 2014: 2232 2015: 2039 % of Total: unknown</p> <p>Quantity of sand/debris collected by cleaning of catch basins: unknown</p> <p>Location used for the disposal of debris: Maintenance: Facilities for dewatering → Landfill; Construction:</p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>RIDOT has previously tracked inspections, cleanings, and repairs in Excel spreadsheets or on paper forms. Going forward in 2016, RIDOT will exclusively use the VUEWORKS Maintenance Management System to document all efforts with all drainage structures (catch basins, manholes, outfalls, STUs, etc.). This effort is required as part of the EPA Consent Decree, and will be documented in Consent Decree Annual Reports.</p>
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BMP ID 6K, 6L – ANNUAL CATCH BASIN CLEANING

In 2015, the RIDOT Maintenance Division created a new Statewide Drainage Crew. The establishment of this crew includes the purchasing of new equipment including 2 new stetco/clam-shell trucks and 6 new vacor trucks, hiring of new staff, reorganization of a Facility, and the commitment of resources to adequately implement a Catch Basin inspection/cleaning/repair of the State drainage system, in accordance with the Consent Decree. This statewide crew will be responsible for the cleaning and inspection of catchbasins on a scheduled basis. The other Maintenance Facilities will continue with localized cleaning/inspections based on institutional knowledge of system, emergencies, and complaints.

RIDOT is able to provide the following estimates of what has been inspected/cleaned by the Maintenance Division.

- In 2014, RIDOT estimates that 1039 catch basins were cleaned as part of Maintenance projects.
- In 2015, RIDOT estimates that 659 catch basins were cleaned as part of Maintenance projects.

The RIDOT Construction Division is also responsible for maintenance and cleaning of drainage system components involved in active construction projects. As part of any project that requires drainage work, contractors are typically required to 'flush and clean' the drainage system. RIDOT estimates these catch basins by examining the "Distribution of Quantities" in projects that have been Finalized in the calendar year (the "DOQ" provides a listing of payment items; and 'clean and flushing of the system is typically one of the last procedures of an active construction project). [ATTACHMENT 6A](#)

- In 2013, RIDOT estimates that 107,085 linear feet of drainage lines, 210 manholes, and 724 catch basins were cleaned as part of Construction projects.
- In 2014, RIDOT estimates that 58,978 linear feet of drainage lines, 147 manholes, and 1,046 catch basins were cleaned as part of Construction projects.
- In 2015, RIDOT estimates that 71,963 linear feet of drainage lines, 303 manholes, and 1,077 catch basins were cleaned as part of Construction projects.

In 2011, the Maintenance Division purchased an Asset Management System (VueWorks). VueWorks is currently being configured for implementation in the RIDOT Highway and Bridge Maintenance Division. RIDOT understands the importance of accurate records and reporting with respect to storm water management, and RIDOT has chosen to prioritize the implementation of the drainage network assets. The current RIDOT catch basin database will be used as base data and concept. . RIDOT also anticipates implementing this program in the Design and Construction Divisions to more accurately document the catch basins inspected and cleaned as part of their routine work.

This measure is required as part of the EPA Consent Decree, and will be documented in Consent Decree Annual Reports.

RESPONSIBLE PARTIES - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program. RIDOT Construction is the secondary RIDOT entity responsible for the implementation of this program. The RIDOT Natural Resources Unit, MIS/GIS Office, Office of Stormwater Management, and the Asset Management Office assist in the implementation of this project.

EFFECTIVENESS - With the implementation of VueWorks, it is anticipated that RIDOT will be able to provide accurate documentation of inspections and maintenance and develop a programmatic preventative maintenance schedule for the drainage network.

YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure D.

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.
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BMP ID 6S – Stabilization of roadside shoulders

RIDOT and FHWA funded projects for research on grasses on Rhode Island roadways. Two studies were completed and Dr. Rebecca Brown of the University of Rhode Island (URI) was a researcher for both slope stabilizing, salt tolerant grass mixes for use on Rhode Island roadways. The first study with URI is entitled Evaluation of Native Grasses for Highway Slope Stabilization and Salt Tolerance dated July 2010. The purpose of

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

the study was to determine a grass seed mix with natives that would be best suited along the highway, especially at the road edge, where erosion is a concern. Salt tolerance, root depth, establishment and survivability in the approximate 20 foot zone, were evaluated. A recommendation for a blend of grasses to meet the various needs of the roadside was made.

The second study also with URI is entitled Development of Salt Tolerant Grasses for Roadside Use dated September 2011. In the 2 year study it was found that the survivability of the grasses were not affected by salt as much as the effects of very low soil fertility. It was found that incorporating biosolids or organic matter on the front slope would help the establishment and survivability of the grasses. Another observation is that the seeded turfgrasses are not persisting long term on the roadside. The seeded grasses establish but are then gradually replaced by native or naturalized species. Reduced mowing is recommended to increase the ability of natives and naturalized types to establish in disturbed areas. Overall suggestions include soil amendments, reduced mowing, revising the seed mixes for the roadside, and discontinuing the use of haybales which contain and introduce high levels of weeds to the road edge.

In 2014 and 2015, RIDOT has introduced reduced mowing in applicable areas and has eliminated the use of haybales on projects. Both practices have been beneficial.

RESPONSIBLE PARTIES - URI has completed both research studies.

EFFECTIVENESS – Using research studies to develop Department standard practices is considered effective.

YEAR 13 (2016) EXPECTED ACTIONS - The RIDOT Landscape Unit has reviewed the studies, and will continue to implement key findings as appropriate. Next steps are to incorporate the recommended seed mixes and soil amendments in RIDOT projects.

RIDOT will continue to fund applicable environmental studies through the National Highway Cooperative Research Program.

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.
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Discharges causing scouring are identified during the initial outfall location identification and GPS field work.

RIDOT intends to inspect all drainage system component by December 2017, per Consent Decree requirements. Scouring will be an identified feature.

RESPONSIBLE PARTIES - The RIDOT Natural Resources Unit, MIS/GIS Office, Maintenance Division, Office of Stormwater Management, and the Asset Management Office are all responsible for the implementation of this project.

EFFECTIVENESS - With the implementation of VueWorks, it is anticipated that RIDOT will be able to provide accurate documentation of inspections and maintenance and develop a programmatic preventative maintenance schedule for the drainage network.

YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure D.

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). Evaluate appropriateness and effectiveness of this requirement.
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Total roadway miles within regulated area (including SRPW and TMDL areas): 1240 roadway miles
Total roadway miles that were swept in 2014: 1831* in 2015: 2765* % of Total: unknown
***values are CURB MILES, which differ from roadway miles**

Type of sweeper used: Rotary brush street sweeper Vacuum street sweeper
 Quantity of sand/debris collected by sweeping of streets and roads: **unknown**
 Location used for the disposal of debris: **Maintenance Facilities for dewatering → Landfill**
 Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the annual sweeping of streets and roads? YES NO

RIDOT has previously tracked sweeping in Excel spreadsheets or on paper forms. Going forward in 2016, RIDOT will exclusively use the VUEWORKS Maintenance Management System to document all efforts with all

drainage structures (catch basins, manholes, outfalls, STUs, etc.). This effort is required as part of the EPA Consent Decree, and will be documented in Consent Decree Annual Reports.

BMP ID 6T, 6U – ANNUAL ROAD SWEEPING

The RIDOT Maintenance Division has attempted to sweep 100% of the state highways each year, however this is often not achieved due to the limited availability of overtime, personnel, and equipment. It is estimated that 80-90% of divided highway sweeping is completed each year. The individual facilities estimate that 90-100% of the secondary roadways are completed each year.

Currently, RIDOT cannot provide accurate documentation of roadway sweeping operations.

In 2014, RIDOT Maintenance contracted for the purchase and installation of GPS tracking equipment for the RIDOT fleet of sweepers. This equipment will allow for accurate documentation of sweeping efforts. **[ATTACHMENT 6B]**

In 2015, RIDOT contracted with Data Transfer Solutions, LLC to develop the VueWorks Sweeping Module. This module will provide RIDOT with means to manage the scheduling and documentation of the sweeping efforts.

RIDOT Maintenance will include the Sweeping in their Asset Management System (VueWorks). Proper sweeping and documentation of roadways within the RIPDES permit area and Consent Decree Appendix 11 are required under the Consent Decree Remedial Measure D. In 2016, these efforts effort will be documented in the Consent Decree Compliance report.

RESPONSIBLE PARTIES - The RIDOT Natural Resources Unit, MIS/GIS Office, Maintenance Division, Office of Stormwater Management, and the Asset Management Office are all responsible for the implementation of this project.

EFFECTIVENESS - With the implementation of VueWorks, it is anticipated that RIDOT will be able to provide more accurate documentation of sweeping operations and develop a programmatic maintenance schedule for the sweeping operation.

YEAR 13 (2016) EXPECTED ACTIONS - Comply with EPA Consent Decree Remedial Measure D.

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.

RIDOT uses prison work crews to pick up litter along highways. Please see Minimum Measure 2C.

- In 2014, RIDOT paid \$603,095 for prison crews and picked up 54,589 bags of litter.
- In 2015, RIDOT paid \$536,625 for prison crews and picked up 48,292 bags of litter.

RESPONSIBLE PARTIES - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this measure effective.

YEAR 11 (2014) EXPECTED ACTIONS - RIDOT Maintenance will continue this program.

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

RIDOT Maintenance facilities have Stormwater Pollution Prevention Plans and/or Spill Prevention Plans (as appropriate) which require the proper storage and removal of waste. (Submitted to RIDEM RIPDES w/ 2006 Annual Report; Updated Reports submitted with 2012 Annual Report). Catch basin and street sweeping wastes are disposed of at the Johnston Rhode Island Resource Recovery landfill following applicable state regulations and guidance. In 2011, the SWPPPs and SPCCs were evaluated and updated.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

RIDOT Construction projects must adhere to the RIDOT Standard Specifications (“Blue Book”), which requires the proper and legal disposal of waste from all RIDOT Construction sites. In order for a Contractor to get paid for the item, proper documentation and record-keeping is required.

RESPONSIBLE PARTIES - RIDOT Maintenance and Construction are the primary RIDOT entities responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this measure effective.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT Maintenance & Construction will continue this program.

IV.B.6.b.4 and IV.B.6.b.5	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 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 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.
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RIDOT Maintenance facilities have Stormwater Pollution Prevention Plans and/or Spill Prevention Plans (as appropriate). The Facility SWPPP requires actions (inspections, monitoring, reporting) fulfilling obligations under IV.B.6.b.4 and IV.B.6.b.5. The SWPPPs and SPCCs were updated in 2011.

RESPONSIBLE PARTIES - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this measure effective.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT Maintenance & Construction will continue this program.

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 staff municipal participation in the URI NEMO stormwater public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement. How many stormwater management trainings have been provided to <i>municipal RIDOT</i> employees during this reporting period? 2014: 1 2015: 7 Please see MM1, MM2, & ATTACHMENT 1A and ATTACHMENT 1B What was the date of the last training? August 6&7, 2015 How many <i>municipal RIDOT</i> employees have been trained in this reporting period? What percent of <i>municipal RIDOT</i> employees in relevant positions and departments receive stormwater management training? Construction: 72 Construction employees received training in 2015; Construction estimates 150 employees need stormwater management training Maintenance: 15 employees received stormwater training in 2014; 5 employees received stormwater training in 2015; Maintenance estimates 150 employees need stormwater management awareness training. Design/Project Managers: 3 Design employees received stormwater training in 2014; RIDOT estimates that 110 employees need stormwater management training. Environmental: 4 (out of 4) employees received stormwater training in 2014 and 2015
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BMP ID 6C, 6D, 6E – EMPLOYEE TRAINING
Please see Minimum Measure 1.

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.
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Not applicable to RIDOT

Additional Measurable Goals and Activities

BMP ID 6A, 6B – WINTER OPERATIONS - ONGOING

Starting in 2012, RIDOT began outfitting its winter fleet with new “closed loop” spreader controls that incorporated GPS and wireless technologies. This program required a significant investment by the Department but has resulted in financial savings and reduced our overall impact on the environment. With salt (sodium chloride) representing the most expensive part of snow and ice operations, we have been able to reduce our potential expenses.

Starting in 2013, RIDOT began using salt brine for anti-icing and pre-wetting applications. We currently have one brine production unit at our Midstate Facility in East Greenwich which can produce close to 5,000 gallons per hour with salt brine storage available at most of our storage facilities. In order to expand this initiative, which is a much improved method of anti-icing versus using solid materials, we will be working to expand our production abilities in the coming years and will continue to have a need for assistance with application and perhaps hauling between storage sites.

For the 2014 season, the Department had 100% of the heavy duty fleet outfitted with this equipment.

For the 2015 season, 13 new closed loop winter operation trucks were purchased to replace older, less efficient trucks. RIDOT anticipates full fleet replacement by 2020.

In 2013/2014, RIDOT introduced a “Green Incentive” for vendors which has increased the vendor use of closed loop systems and calibration. **[ATTACHMENT 6C]**

2015 SALT BARN STATUS:

Anthony Road, Portsmouth – new Maintenance facility on Boyd's Lane currently scheduled to be constructed 2016 and completed in 2017. Salt storage facility will follow that construction, likely in 2017-2018. Projects were delayed due to use of our parcel as a stockpile area for Sakonnet River Bridge project

- Apex/I-95 Pawtucket – new paved stockpile area was constructed in 2010 near Exit 30 (I-95 South). RIDOT is currently in negotiations with the City of Pawtucket to construct a new salt storage (shared use) at their existing DPW facility off of Armistice Blvd.; on hold due to funding, may be a candidate in 2017 and/or 2018
- Belleville, NK – completed 2009
- Dillon's Corner, Narragansett: Completed 2014. Facility is open and in full operation.
- Geo. Washington Hwy, Lincoln: awarded in 2012, completed in early 2014, facility is open and in operation
- Route 116, Smithfield –completed in 2010
- Route 6 & 295, Johnston: completed 2010
- Warren Ave, E. Prov –previously scheduled for construction in 2014-2015 however this has been delayed to have space for laydown area for adjacent bridge replacement project and due to funding. Candidate for 16-17.
- West Main Road, Middletown – site use was discontinued in 2010; new stockpile area is located at Route 138 off-ramp in Newport. Long term plan is to construct a shared-use facility at the Newport DPW site off of Adm. Kalbfus. Highway. Projected to be likely a candidate for 2019-2020.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

Of note is that the new environmental regulations which took effect in 2010 have increased our overall construction costs by about 25% thus reducing our ability to construct 2 new facilities per year, we now can only afford to build 2 facilities over 3 years based on current funding appropriations. The new environmental regulations require the entire storage and loading process to occur under the same roof, within the structure, which forced us to expand the square footage of the facilities in order to continue to maintain adequate salt quantities to maintain safe and operable highways.

RESPONSIBLE PARTIES - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program.

EFFECTIVENESS - RIDOT considers this measure effective.

YEAR 13 (2016) EXPECTED ACTIONS - RIDOT Maintenance will continue this program. RIDOT Maintenance will continue to upgrade equipment & salt barns as funding allows.

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

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:
	See [ATTACHMENT D]		
	<i>This will be documented as part of Consent Decree Remedial Measure D Compliance.</i>		

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:
<i>This will be re-evaluated and documented as part of Consent Decree Remedial Measure D Compliance.</i>				

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).

RIDOT Design/Construction projects are required to use the 2010 Rhode Storm Water Design and Installation Standards Manual, as applicable, which requires water quality BMPs & LID. RIDOT Design/Construction projects are also subject to DEM RIPDES, Water Quality, & Wetland regulations, CRMC, ACOE, USCG, etc. permit requirements.

In 2016, RIDOT has begun the evaluation of storm drain STU retrofits in the Woonasquatucket River watershed, in accordance with the requirements of the Consent Decree.

Going forward, this will be documented as part of Consent Decree Remedial Measures Compliance.

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).

None

Going forward, this will be documented as part of Consent Decree Remedial Measures Compliance.



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 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.

In 2014 and 2015, the Rhode Island Department of Transportation negotiated a Consent Decree with the US Environmental Protection Agency and Department of Justice. The Consent Decree was signed by the parties, and entered by US Federal Court, and is effective as of December 22, 2015. The full Consent Decree may be viewed on the RIDOT Stormwater Management website at: <http://www.dot.ri.gov/about/stormwater.php>

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Runoff Controls, Good Housekeeping, and Total Maximum Daily Loads (TMDLs). The Consent Decree also requires semi-annual Compliance Reporting.

Going forward, RIDOT proposes to document TMDL compliance in the Consent Decree Compliance Reports only, as the Consent Decree Remedial Measure B covers all RIPDES TMDL requirements.

The following STUs were finalized:

2014:

2008-CB-056: Replacement of Sakonnet River Bridge #250, Portsmouth/Tiverton; 2 Bioretention areas

2012-CB-030: Ten Rod Road Bridge #591, Exeter – 1 Forebay/Detention Basin

2012-CH-056: 1R Improvements to Route 44, Construct 3C, Chepachet – 1 Water Quality Basin

2015:

2013-CB-062: Magnolia Bridge #503 Removal, Providence – Bioretention Swale

2014-CH-045: Reconstruction fo Two Mile Corner – Stormwater Management Facility, Middletwon – Wet Vegetated Treatment System



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 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.

In 2014 and 2015, the Rhode Island Department of Transportation negotiated a Consent Decree with the US Environmental Protection Agency and Department of Justice. The Consent Decree was signed by the parties, and entered by US Federal Court, and is effective as of December 22, 2015. The full Consent Decree may be viewed on the RIDOT Stormwater Management website at: <http://www.dot.ri.gov/about/stormwater.php>

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Runoff Controls, Good Housekeeping, and Total Maximum Daily Loads (TMDLs). The Consent Decree also requires semi-annual Compliance Reporting.

Going forward, RIDOT proposes to document Impaired Waters compliance in the Consent Decree Compliance Reports only, as the Consent Decree Remedial Measure B covers all RIPDES impaired waters requirements.



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 Margarita Chatterton of the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700 ext. 7605.

The Annual Report must be submitted to:

RIDEM
Office of Water Resources
RIPDES Program
Permitting Section
235 Promenade Street
Providence, RI 02908
ATTN: Jennifer Stout

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 (RIPDES Rules 3 & 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

Rules 3 & 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 Rule 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 2014 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.

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 2014, number of illicit discharges tracked in 2014, number of illicit discharges eliminated in 2014, 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 2014. 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 11 (2014) 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 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 Appendix D of the *RIDEM Water Quality Regulations* at this link:

<http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf>
or

an impaired water body including water bodies with no approved TMDL as listed 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>.

In accordance with Rule 31(a)(5)(i)G in the *Regulations for the Rhode Island Pollutant Discharge Elimination System* (RIPDES Regulations), MS4s were required to incorporate any discharges to these water bodies into their MS4 Program on or after March 10, 2008 unless a waiver has been granted in accordance with Rule 31(g)(5)(iii).

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.

2014-2015 ATTACHMENTS

ATTACHMENT 1A: DOT / URI / DEM Stormwater Phase II Agreement

ATTACHMENT 1B: 2014 & 2015 summary of URI work

ATTACHMENT 1C: RIDOT MS4 Training

ATTACHMENT 1D: Training Staff Training 2014 & 2015

ATTACHMENT 2: ProJo Public Notice - April 17, 2013

ATTACHMENT 3A: Main St - Pascoag IDDE, Route 44 - IDDE

ATTACHMENT 3C: PAP Drainage Interconnection - 2014 & 2015

ATTACHMENT 4A: URI-Eng Compliance Assistance Program 2014-2015

ATTACHMENT 4B: RIDOT Final Inspections – 2014-2015

(no attachments for Minimum Measure 5)

ATTACHMENT 6A: RIDOT Construction Catch Basin estimates

ATTACHMENT 6B: RIDOT Sweepers GPS System Install - 2015

ATTACHMENT 6C: Green Incentive for Winter Vendor - 2014-2015

ATTACHMENT 6C: Green Incentive for Winter Vendor - 2015-2016

ATTACHMENT 6D: RIDOT STU Inventory

A G R E E M E N T

Between the

State of Rhode Island and Providence Plantations

Department of Transportation

and

The University of Rhode Island

and

The Rhode Island Department of Environmental Management

In the Amount of

One Hundred and Seventy Thousand Dollars (\$170,000)

For a Period of Twelve Months

For the Purpose of

**Storm Water Phase II
Public Outreach, Education, Involvement and Participation**

Contract Identification Code FAP # STP-SDRP(004)

This contract is funded in whole or in part with federal funds, 1270.39001102 (federal),
1270.38851019 (State)

Whereas, the State of Rhode Island and Providence Plantations, hereinafter referred to as **STATE**, by and through its Department of Transportation, hereinafter referred to as **DOT**, has applied for and received FHWA federal grant funds; and

Whereas, the University of Rhode Island, hereinafter referred to as **CONTRACTOR**, has agreed to undertake services described in Appendix I, herein, Scope of Work of this Agreement; and

Whereas, the Department of Environmental Management, hereinafter referred to as **DEM**, has agreed to provide technical assistance and undertake certain other services as described in Appendix I – Scope of Work of this Agreement; and

Whereas, the **STATE** has delegated contracting authority to the **DOT** to enter into agreements with sponsors of projects to accomplish work to enhance transportation; and

Whereas, the **DOT**, **DEM** and the **CONTRACTOR**, under their respective authorities are cooperating to implement programs to enhance transportation as well as protect ground and surface water resources that are threatened by stormwater; and

Whereas, the **DOT** and **DEM** have agreed that the successful completion of the services and activities further described in the Scope of Work will fulfill the **DOT's** responsibilities under *Rhode Island Pollution Discharge Elimination System Regulations Storm Water Phase II*, hereinafter referred to as Storm Water Phase II, minimum measure for the *Public Outreach and Education*; and

Whereas, the **DOT** and **DEM** have agreed that the successful completion of the services and activities further described in the Scope of Work will fulfill certain aspects of the **DEPARTMENT's** responsibilities under the Storm Water Phase II *Public Involvement and Participation* minimum measure; and

Whereas, the **DOT** and **DEM** acknowledge further services and activities are required to fulfill the **DOT's** Stormwater Management Plan responsibilities under Storm Water Phase II minimum measure *Public Involvement and Participation*.

Whereas, the **DOT** desires to engage the **CONTRACTOR** to perform certain services and activities, in conjunction and cooperation with **DEM** and other parties, further described in Appendix I, herein, Scope of Work; and

Whereas, the **CONTRACTOR** is willing and qualified to provide the services.

Now Therefore, the **DOT**, **DEM** and the **CONTRACTOR** hereto do mutually agree as follows:

Paragraph 1 - Governing Law and General Terms and Conditions

This Agreement is deemed executed and delivered in the **STATE**, and all questions arising out of or under this Agreement shall be governed by the laws of the **STATE**.

The **STATE'S** Purchasing Law (Chapter 37-2 of the Rhode Island General laws),

Purchasing Rules and Regulations and General Terms and Conditions, which can be obtained at www.purchasing.state.ri.us shall apply as the governing terms and conditions of this Agreement.

Paragraph 2 - Federal Funding Provisions

Funds made available to the **CONTRACTOR** under this Agreement are derived from federal funds made available to **DOT**. The provisions of Paragraph 1 notwithstanding, the **CONTRACTOR** agrees to make claims for reimbursement under this Agreement in accordance with the applicable federal policies governing allowable costs to be charged against federal grants which specific policies are clearly identified to Contractor elsewhere in this Agreement. The **CONTRACTOR** agrees that no expenditures claimed for reimbursement under this Agreement will be claimed for reimbursement under any other Agreement, grant or contract that the **CONTRACTOR** may hold which provides funding from **STATE** or federal sources. The **CONTRACTOR** further agrees to be liable for repayment of monies that the State's auditor reasonably determines, after an audit of the Contractor's accounts for this project, and after a consultation with Contractor, to have been mistakenly or wrongly paid to the Contractor for examination of expenditures:

- a) claimed by the **CONTRACTOR** for reimbursement under this Agreement; and/or
- b) submitted by the **CONTRACTOR** in meeting any cost participation (i.e., match) requirements.

In executing this Agreement, the **CONTRACTOR** acknowledges that it is serving as an independent **CONTRACTOR** performing services for the **DOT** paid for by the **DOT** with funding provided in part under a federal contract between the **DOT** and the federal government, the terms of which federal contract are hereby incorporated into and made a part of this Agreement. The **CONTRACTOR** specifically agrees that, in the performance of its activities under this Agreement, it will abide by all applicable federal requirements, including all applicable requirements in the said federal contract between the **DOT** and the federal government which the **DOT** specifically makes known to the **CONTRACTOR**. In the event that such federal contract terms conflict with the terms of this Agreement, the federal contract terms shall prevail.

Paragraph 3 - Disclosure and Certifications

The **CONTRACTOR** has executed **Appendix III--Contractor Certification Form.**

Paragraph 4 - Contract Period

The **CONTRACTOR** shall commence performance of this agreement on the February 1, 2014 and shall complete performance no later than January 31, 2015 with the option for four, one-year renewals subject to available funding, unless both parties mutually agree to extend the contract period or one or both parties terminate the Agreement prior to that day in accordance with other provisions of this Agreement.

In accordance with Chapter 37-2-54 (3) of the Rhode Island General Laws "no purchase or contract shall be binding on the **STATE** or any agency thereof unless approved by the Department of Administration." Authorization for the **CONTRACTOR** to proceed with the contract shall be in the form of a Purchase Order issued by the Department of Administration or, in urgent circumstances, a Letter of Authorization to Proceed issued by the Purchasing Agent in anticipation of the issuance of a Purchase Order.

Paragraph 5 - Performance

The **CONTRACTOR** shall, in a manner to be determined satisfactory at the sole and exclusive discretion of the **DOT** and **DEM** acting on behalf of the **STATE**, perform all obligations and duties required of Contractor as specified in Appendix I - Scope of Work, hereby incorporated by reference into this Agreement.

The **DOT** and **DEM** or their agents and if appropriate representative(s) of the federal government shall have the right at all times to inspect the work performed or being performed under this Agreement as well as the places where such work is performed; and to that end, **DOT** and **DEM** representative(s) shall be given reasonable access to all activities related to this Agreement.

Paragraph 6 - Licenses and Permits

The **CONTRACTOR** certifies that he possesses all licenses and permits required by Federal and State law and regulation as they pertain to the requirements of this Agreement as set forth herein. The **CONTRACTOR** shall maintain such required licenses and permits during the entire course of this Agreement and, should such licenses or permits lapse or be suspended, shall immediately inform the Contract Officer in writing of such circumstance. Failure to maintain proper licenses or comply with permit requirements is consider a material breach of this Agreement and may result in termination without notice.

Paragraph 7 - Contract Officer

The **DOT** shall appoint a Contract Officer to manage this contract as specified in Appendix IV--Contract Management. Such Contract Officer shall be the contact person for all matters regarding implementation of this Agreement. The **DOT** shall notify the **CONTRACTOR** in writing, immediately, should the Contract Officer be changed.

The **CONTRACTOR** and **DEM** agree to maintain close and continuing communication with the **DOT** Contract Officer, throughout the performance of work and services undertaken under the terms of the Agreement. The Contract Officer is responsible for assuring that all terms and conditions set forth in this Agreement and that all performance criteria are met before approving any payments made by the **STATE** to the **CONTRACTOR**.

Paragraph 8 - Project Officers

The **CONTRACTOR** shall appoint a Project Officer, as specified in **Appendix IV--Contract Management**. Such Project Officer shall be the contact person for all matters regarding implementation of this Agreement. The **CONTRACTOR** shall notify the **DOT** in writing immediately should a significant problem arise regarding implementation of any material part of this Agreement or should a material change be necessary. No Project Officer shall be appointed by the **CONTRACTOR** without the written consent of the **DOT**.

DEM shall appoint a Project Officer, as specified in **Appendix IV--Contract Management**. Such Project Officer shall provide technical assistance to the **DOT** by overseeing and helping ensure the proper performance by **DEM** of all of its obligations under this Agreement, and by reviewing **CONTRACTOR** products for technical accuracy and compliance with Storm Water Phase II and notifying the Contract Officer of **DEM**'s findings. No payment shall be made by the **DOT** prior to **DEM**'s review and approval; however, **DEM** shall not be responsible for contract administration beyond technical review of products and notification of the **DOT** as described in this paragraph. The **DEM** shall notify the **DOT** in writing immediately should a problem arise regarding implementation of any part of this Agreement or should a change be necessary. No Project Officer shall be appointed by **DEM** without the written consent of the **DOT**.

Paragraph 9 - Compensation

Total payment for services to be provided to the **CONTRACTOR** under this agreement shall not exceed Eight Hundred Fifty Thousand Dollars (\$851,300) subject to the availability of funds. The **CONTRACTOR** shall provide documentation and certification of matching expenses for the project in the amount of Zero Dollars (\$0). Changes shall not be implemented without prior written authorization and shall be made in accordance with the provisions of **Paragraph 15 - Changes** of this agreement. There shall be no payment to **DEM**.

Total value of this agreement may be subject to availability of funds to the **STATE**. Whether funding availability is reduced because of executive or legislative actions or because of any fiscal limitations not presently anticipated, the **STATE**, at its sole discretion, may reduce the value of a contract or eliminate the value of the contract as a whole, or may reduce or eliminate any budget line item(s) to accommodate funding availability amendments. The **CONTRACTOR** and **DEM** shall be notified in writing of such amendments after first being consulted and being given an opportunity to object to or provide comment on specific proposed amendments.

All payments shall be made in accordance with procedures established by the **STATE** Controller. Upon submission of an original signed invoice and documentation as required in accordance with provisions of **Appendix V--Payments and Reports Schedule**, **DEM** shall notify the **DOT** of the findings of its Project Officer technical review as described in Paragraph 8 and the **DOT** shall notify the Controller of the request for payment to the **CONTRACTOR**. The **CONTRACTOR** will complete and forward narrative and fiscal reports as per **Appendix V--Payments and Reports Schedule**.

Ten percent (10%) of the grant amount shall be withheld pending the completion and acceptance of tasks and products as described in **Appendix I--Scope of Work**. Failure to complete tasks or provide products in a timely manner may result in termination of this Agreement.

Paragraph 10 - CONTRACTOR Liability for Reimbursement Denied to the STATE for Work Conducted Under this Agreement

It is understood and agreed that in the event the CONTRACTOR receives payment for its expenditures related to its work under this Agreement and the STATE is later denied reimbursement by the federal government for those same expenses, due solely to the CONTRACTOR'S alleged failure to adhere to the applicable federal requirements made part of this Agreement, the CONTRACTOR shall refund those payments to the STATE, provided that (1) the federal government's decision was reasonable, (2) the CONTRACTOR's failure was not attributable to the negligent, mistaken or wrongful action or inaction of the STATE, and (3) if the CONTRACTOR or STATE reasonably believe the federal government's decision did not appear to be reasonable, the STATE utilizes all reasonable and available means to appeal or seek the reversal or modification of the federal government's decision.

Paragraph 11- Fiscal Assurances

The CONTRACTOR agrees to abide by **Appendix VI--Fiscal Assurances**. Failure to comply is considered a material breach of this Agreement and may result in immediate termination.

Paragraph 12 - Accessibility and Retention of Records

The CONTRACTOR agrees to make accessible and to maintain all fiscal and activity records relating to this Agreement to STATE and/or federal officials. This requirement is also intended to include any auditing, monitoring, and evaluation procedures, including on-site visits performed individually or jointly, by STATE or federal officials or their agents. Minutes of town council and board of directors meetings, fiscal records, and narrative records pertaining to activities performed will be retained for audit purposes for a period of at least three (3) years following the submission of the final expenditure report for this Agreement or, if audit funding has not been received at the end of the three (3) years, the records shall be retained until resolution of the audit findings are made.

Paragraph 13 – Confidentiality of DOT Records

The CONTRACTOR agrees to abide all federal and STATE laws and regulations governing the confidentiality of information to which the CONTRACTOR may have access pursuant to the terms of this Agreement. In addition, the CONTRACTOR agrees to recognize basic rights to privacy and to the confidentiality of personal information. ("Confidential records" are the records as defined in Section 38-2-3(d) (1) - (1 - 19) of the General Laws, entitled "Access to Public Record.") Failure to abide by this paragraph will result in termination of this Agreement.

Paragraph 14 - Termination of Agreement

This Agreement may be terminated upon thirty (30) days written notice (delivered by certified mail, return receipt requested) by **DEM**, the **DOT** or the **CONTRACTOR**. In the event of termination by any party, all property and finished or unfinished documents, data, studies, and reports prepared by the **CONTRACTOR** under this Agreement, shall, at the option of **DOT**, become **STATE** property subject to a non-exclusive license retained by the **CONTRACTOR** for future use in its educational or research activities. Notice of the effective date of termination will include the reports that must be completed. The above mentioned thirty (30) day written notice notwithstanding, the **DOT** expressly reserves the unilateral right to terminate, amend and/or reduce services and payments under this agreement, effective immediately upon notice to the **CONTRACTOR** and **DEM**, in the event that the funding underlying the participation of **DOT** is limited or curtailed.

The **DOT** may terminate this agreement without notice in the event of material breach of the Agreement by **CONTRACTOR** or **DEM**.

Paragraph 15 - Changes

The **STATE** may permit changes in Appendix I—Scope of Work, time of performance, or approved budget of the **CONTRACTOR** to be performed hereunder. Such changes, which are mutually agreed upon by the **STATE** and the **CONTRACTOR**, must be in writing and shall be made a part of this agreement by numerically consecutive amendment and shall be issued by the **STATE** in the form of Change Orders. No amendment shall be valid until and unless approved by the Rhode Island Department of Administration in the form of Change Order to the Purchase Order established for this agreement.

Paragraph 16 - Assignability

The **CONTRACTOR** shall not subcontract or otherwise assign or novate any interest in this Agreement without **DOT'S** approval.

Paragraph 17 - Subcontracts

Any proposed subcontract under this Agreement shall be submitted to the **DOT** contract officer for approval prior to execution. To be valid, all subcontracts shall incorporate this grant agreement by reference and attachment Subcontracting shall transfer all provisions of this grant agreement to subcontractors pursuant to the scope of work they are to perform. Notwithstanding, the **CONTRACTOR** shall remain liable to the **STATE** for all aspects of this Agreement. Failure to comply with the provisions of this article may result in denial of reimbursement for such nonapproved subcontractual services.

Paragraph 18 - Partnership

It is understood and agreed that nothing herein is intended or should be construed in any manner as creating or establishing the legal relation of partnership between the parties

hereto, or as constituting the employees, agents, or representatives of the **CONTRACTOR** included in this agreement as employee, agents, or representatives of the **DOT** or **DEM**.

Paragraph 19 - Pecuniary Interest

The **CONTRACTOR** covenants that it presently has no pecuniary interest and shall not acquire any such interest, direct or indirect, which would conflict in any manner or degree with the performance of services required to be performed under this Agreement. The **CONTRACTOR** further covenants that in the performance of this Agreement no person having any such interest shall be employed.

Paragraph 20 - Intellectual Property, Equipment, Capital and Other Assets

All equipment, property, management practices, finished or unfinished documents, computer software, data studies, and reports prepared or acquired by the **CONTRACTOR** under this Agreement and for which reimbursement was claimed under this Agreement shall, at the option of **DOT**, become the property of **STATE**.

The **CONTRACTOR** further understands and agrees to abide by federal regulations, requirements, and policies governing the disposition of equipment or property purchased with funds made available to the **CONTRACTOR** under this Agreement or with funds identified by the **CONTRACTOR** as matching expenditures under this Agreement. The **CONTRACTOR** agrees to maintain an equipment inventory list under this Agreement and to identify related equipment properly for inspection.

The **CONTRACTOR** agrees to operate, maintain and repair any management practices installed or equipment purchased pursuant to this Agreement, in accordance with state-of-the-art standards as approved by the **DEPARTMENT**, throughout their life. The **CONTRACTOR** agrees to provide the **DEPARTMENT** free and clear access to any such management practices and equipment for the purpose of inspection and monitoring.

Paragraph 21 - Copyrights and Publicity

The **DOT**, **DEM** and the **CONTRACTOR** shall retain permanent right to receive use and distribute copies of all documents and materials (hardcopy and digital formats) developed under this Agreement.

All printing, signage, advertising, publicity, or outreach materials distributed for the purpose of this grant will require prior review and approval by the **DOT** and **DEM** and must recognize the **DOT** and federal agencies as appropriate as a source of funding. Additionally, the **DOT** and **DEM** logo shall be prominently displayed where textual acknowledgements are included on materials produced for the purposes of this Agreement.

Paragraph 22 - Use of recycled paper for printing

All written correspondence, documents, reports and other printed materials for work

pursuant to this Agreement shall utilize nontoxic ink and recycled paper (minimum 20% post-consumer content) whenever practicable.

Paragraph 23 – No liability for personal injuries

Each party agrees that during the term of this Agreement each will keep and maintain, at their sole cost and expense, adequate insurance providing coverage for the activities and risks contemplated by this Agreement in such amounts and with such companies as are reasonably acceptable to the other and will further provide each other certificates of insurance in usual form evidencing such insurance coverage upon reasonable request which request shall not be made more than once a year. Each party will provide notice to the other prior to any cancellation or any change in the agreed upon insurance coverage which may be cause to termination of this Agreement.

Each party assumes any and all risks of liability for property damage and personal injury, including bodily injury and death, caused by the willful misconduct or negligent acts or omissions of themselves, and their respective officers, employees and agents.

Paragraph 24 - Nondiscrimination in Employment and Services

The **CONTRACTOR** agrees to comply with the requirements of Title VI of the Civil Rights Act Of 1964 (42 USC 200d et seq.); Section 504 of the Rehabilitation Act Of 1973, as amended (29 USC 794); Title IX of the Education Amendments of 1972 (20 USC 1681 et seq.); The United States Department of Health and Human Service Regulations found in 45 CFR, parts 80 and 84; and the United States Department of Education Implementing Regulations (34 CFR, parts 104 and 106); which prohibit discrimination on the basis of race, color, national origin, handicap, or sex, in acceptance for or provision of services, employment, or treatment in educational or other programs or activities.

The **CONTRACTOR** acknowledges receipt of **Appendix VII--Notice To Department Contractors Of Their Responsibilities Under Title VI Of The Civil Rights Act Of 1964** and **Appendix VIII--Notice To Department Contractors Of Their Responsibilities Under Section 504, Of The Rehabilitation Act Of 1973** incorporated herein by reference and made part of this Agreement.

The **CONTRACTOR** agrees to comply with all other provisions applicable to law, including the Americans with Disabilities act of 1990; the Governor's Executive Order No. 93-1, which prohibits discrimination on the basis of race, sex, age, national origin, sexual orientation, or disability; and the Governor's Executive Order No. 95-11, relating to sexual harassment.

Failure to comply with the provisions of this paragraph may be the basis for cancellation of this Agreement.

Paragraph 25 – Fair Share for Procurement, Construction and Subcontracting

The **CONTRACTOR** agrees to abide by Appendix IX--Fair Share for Procurement, Construction and Subcontracting.

Paragraph 26 - Drug-free Workplace Policy

The **CONTRACTOR** agrees to comply with the requirements of the Governor's Order No. 89-14 and The Federal Anti-Drug Abuse Act of 1988. As a condition of contracting with the **STATE**, the **CONTRACTOR** hereby agrees to abide by Appendix X--Drug-Free Workplace Policy, and in accordance therewith has executed Appendix XI--Drug-Free Workplace Policy CONTRACTOR Certificate of Compliance.

Furthermore, the **CONTRACTOR** agrees to submit to the **DOT** any report of forms which may periodically be required to determine the **CONTRACTOR**'s compliance with this policy.

The **CONTRACTOR** acknowledges that a violation of the drug-free workplace policy may, at the **STATE**'s option, result in termination of this Agreement.

Paragraph 27 - Pro-Children Act of 1994 (Act)

As a condition of contracting with the **STATE**, the **CONTRACTOR** hereby agrees to abide by Appendix XIII - Certification Regarding Environmental Tobacco Smoke and in accordance has executed Appendix XIII - Certification Regarding Environmental Tobacco Smoke.

Paragraph 28 - Contractor Certificate of Compliance Regarding Hotel and Motel Safety

As a condition of contracting with the **STATE**, the **CONTRACTOR** hereby agrees to abide by Appendix XIV--Contractor Certificate of Compliance Regarding Hotel and Motel Safety.

Paragraph 29 - Debarment, Suspension and Other Responsibility Matters

The **CONTRACTOR** agrees to abide by Appendix XV - Certification Regarding Debarment, Suspension, and Other Responsibility Matters, and in accordance has executed the required certification included in Appendix XV--Certification Regarding Debarment, Suspension and Other Responsibility Matters--Primary Covered Transactions.

Paragraph 30 - Lobbying

CONTRACTOR agrees to comply with all federal laws restricting and/or limiting lobbying activities of recipients of federal funds including but not limited to 31 U.S.C. Section 1352 and Section 503 of the Departments of Labor, Health and Human Services, and Education, and Related Agencies Appropriations Act (Public Law 104-209).

Paragraph 31 - Campaign Contributions

Pursuant to Rhode Island General Law 17-27, all contractors must file campaign contribution affidavits when the cumulative annual value of all State contracts to a vendor exceeds \$5000. Affidavits may be obtained at the Rhode Island Board of Elections.

Paragraph 32 - Severability

If any provision of this Agreement is held invalid, the remainder of this Agreement shall not be affected thereby if such remainder would then continue to conform to the terms and requirements of applicable law.

Paragraph 33 - Appendices

Attached hereto and made part of this Agreement are the following appendices:

Appendix I	Scope of Work
Appendix II	Budget Forms
Appendix III	Contractor Certification Form
Appendix IV	Contract Management
Appendix V	Payments and Reports Schedule
Appendix VI	Fiscal Assurances
Appendix VII	Notice to Department Contractors of Their Responsibilities Under Title VI of The Civil Rights Act of 1964
Appendix VIII	Notice to Department Contractors of Their Responsibilities Under Section 504 of the Rehabilitation Act of 1973
Appendix IX	Contractor Responsibilities Regarding Fair Share for Procurement, Construction and Subcontracting
Appendix X	Drug-Free Workplace Policy
Appendix XI	Drug-Free Workplace Policy Contractor Certificate of Compliance
Appendix XII	Drug-Free Workplace Policy Subcontractor Certificate of Compliance
Appendix XIII	Contractor Certificate of Compliance Regarding Environmental Tobacco Smoke
Appendix XIV	Contractor Certificate of Compliance Regarding Hotel and Motel Safety
Appendix XV	Certification Regarding Debarment, Suspension, And Other Responsibility Matters - Primary Covered Transactions

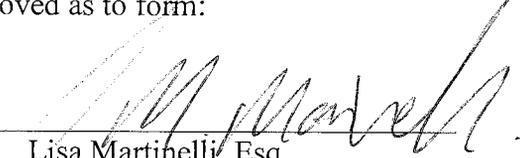
IN WITNESS THEREOF, the parties, through their duly authorized representatives have executed this Agreement on the 12 July day of, 2014 A.D.

RI DEPARTMENT OF TRANSPORTATION

Recommended for Approval:

By: 
Kazem Farhoumand PE
Chief Engineer

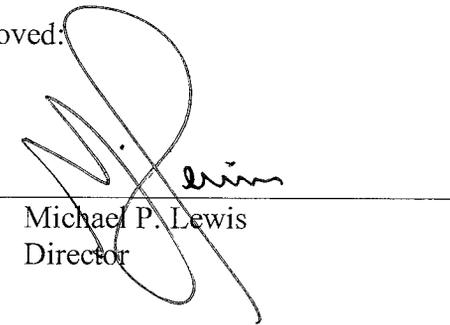
Approved as to form:

By: 
Lisa Martinelli, Esq.
Executive Counsel

Approved:

By: 
Phillip Kydd
Deputy Director

Approved:

By: 
Michael P. Lewis
Director

UNIVERSITY OF RHODE ISLAND

Approved:

By: 
James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Approved:

By: 
Janet Coit
Director

Appendix I
Scope of Work Revised

TITLE: Storm Water Phase II Public Outreach, Education, Involvement and Participation

PROBLEM / NEED

Under the Storm Water Phase II regulations, the Rhode Island Department of Transportation (DOT) is required to undertake and maintain ongoing public education and outreach on preventing stormwater pollution, and to actively involve the public in carrying out its stormwater management program plan. DOT believes that many aspects of these initiatives will be most efficiently developed and implemented via a contract for services. The University of Rhode Island Cooperative Extension (URI) has successfully provided public outreach, education, involvement and participation on water quality issues to municipalities and the general public for many years and has developed a high degree of expertise in this arena.

In addition, URI has developed the award-winning stormwater education program known as RI Stormwater Solutions under contract to DOT, in partnership with the Rhode Island Department of Environmental Management (DEM) and a diverse group of municipal, state, business, and non-profit partners. From 2005 to 2011, the Stormwater Solutions project has directly assisted DOT and other owners of Municipal Separate Storm Sewer Systems (MS4s) to meet Phase II permit requirements for Public Education and Involvement. This scope of work is designed to maintain and expand public education and involvement activities under the Stormwater Solutions project, in support of DOT's stormwater management program.

PURPOSE

The purpose of this project is to contract URI for services to establish continued DOT compliance with their obligations under the Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Storm Water Discharges for the *Public Education and Outreach* minimum measure. This project will also establish compliance with the following aspects of the *Public Involvement and Participation* minimum measure that are related to public outreach and education of the Storm Water Phase II general permit:

- Identification of target audiences (Item IV.B.2.b.2 (i)).
- Description of public involvement activities (Item IV.B.2.b.2 (ii)).
- Evaluation of success (Item IV.B.2.b.4).

DEM will, in addition to its other roles and responsibilities as specified in this Scope of Work, provide technical assistance to DOT by reviewing URI's deliverables for technical accuracy and compliance with Storm Water Phase II to achieve approval. After reviewing deliverables, DEM will forward their findings to DOT. No payment shall be made by DOT prior to DEM's review and approval; however, DEM shall be responsible for no contract administration beyond technical review of deliverables and notification to DOT of acceptability for payment.

In undertaking this effort, DOT anticipates that a number of very valuable public education and outreach tools will be produced that will be applicable to the Storm Water Phase II needs of Rhode Island municipalities and will enable the general public to prevent stormwater pollution.

GENERAL PROJECT PLAN

DOT and DEM will contract with URI to establish and describe the roles and responsibilities of URI, as well as those of DEM and other parties, relating to the performance of the scope of services described below.

These activities, combined with other initiatives by DOT, will fully comply with the *Public Education and Outreach* and *Public Involvement* and Participation minimum measures of the Storm Water Phase II program.

This project plan has been developed with extensive input from State agency partners, regulated municipalities and other MS4s, engineering and planning professionals, and nonprofit organizations involved in stormwater outreach. Their input on outreach and training needs has been gathered through discussions between DEM and local stormwater managers on Phase II permit issues, numerous workshop evaluations, and surveys of stormwater managers, including a 2012 survey used as a basis for this project plan.

A. STATE, MUNICIPAL AND PRIVATE SECTOR TRAINING AND TECHNICAL SUPPORT

TASK A-1 MS4 Workshops on Stormwater Manual Updates and Policies

Overview

This task will provide continued training and technical support on proper use of and compliance with the RI Storm Water Design and Installation Standards Manual. This will build on introductory workshops organized under the RI Stormwater Solutions project following release of the Manual in December, 2010 through January, 2012. The initial 4-part workshop series attracted 577 attendees, including stormwater managers from all 39 RI municipalities, other MS4s, designers, and project reviewers. In addition, more than 100 individuals participated in two specialized workshops for DOT staff and consultants on designing LID for linear transportation projects.

Given the introductory nature of the previous workshops, the DEM anticipates the need for continued training to address technical questions and policy issues that arise as the manual is used. Results of URI workshop evaluations and surveys of MS4 operators clearly document the need for continued support in applying the manual. The training topics most frequently listed as high priority included: clarification of state and local responsibilities, procedures for inspection and maintenance of LID practices, information on manual updates and policies, and more in-depth training in applying the standards using problem solving exercises. Notably, there was also widespread interest in meeting these information needs through new guidance documents and instructions rather than workshops. This task is designed to address these priority topics using a variety of training methods and /or guidance documents. In cases where a meeting or workshop is determined to be the most effective approach, these will be in group settings small enough to promote interaction and discussion rather than large auditoriums.

Training Topics

The annual training schedule will be determined by DEM and DOT with input from other MS4s. At a minimum, the following training topics, which have been identified as priorities by agency partners and MS4 stormwater managers, will be considered:

MS4 Training Priorities Statewide

- Manual updates and amendments, including revised technical standards, supporting guidance in applying the standards, and updated permit review and approval procedures
- State and local permit coordination in using the manual. Examples include: state and local permit coordination on linear transportation projects, state and local permit coordination on projects subject to municipal review such as development of single family lots, subdivisions and other land development projects, redevelopment projects, and coordination of State stormwater, wetlands and OWTS permits
- Technical details for linear LID transportation projects by DOT and municipalities
- Policies for applicability of stormwater manual standards to typical municipal /DOT projects
- Procedures for inspection and maintenance of post-construction stormwater facilities, including methods for promoting and enforcing compliance. When available, the inspection and maintenance manual developed under Task A-2 will be used in training on this topic.

MS4 Training Priorities for Critical Resources

These areas may include impaired waters, Special Resource Protection Waters, cold water fisheries, CRMC Special Area Management Plan (SAMP) areas, and other locally-identified critical water resources.

- Designing LID for no-net increase in TMDL pollutants, with supporting hydrologic /nutrient loading calculations
- Designing LID for difficult sites (shallow groundwater, small lots, etc.)

Tasks

URI will provide support to DEM in organizing training for municipalities, DOT and other manual users on applying the RI Stormwater Manual, focusing on manual updates, policies and current topics.

DEM will assume the lead role in developing educational materials and conducting training on the manual. DEM may seek assistance from DOT, other agency staff, stormwater managers, municipal planners and other professionals on specialized topics as needed.

DEM and URI will work closely with DOT to address DOT training needs and schedules of DOT staff and consultants to the extent possible. Training and technical assistance may be delivered using a variety of formats such as meetings, work sessions, webinars and workshops. In general, these will be half day programs or shorter. All events will be designed to promote discussion and active participation to the extent possible. For the later stages of the project, an annual RI stormwater management conference may be considered, with invited speakers showcasing LID project examples and lessons learned using the RI Stormwater Standards Manual and related LID guidance.

URI responsibilities will be based on DEM needs, to include the following:

- Support workshop planning. This will include development of an annual training work plan, agenda review, and assistance in outlining training modules.
- Coordinate with MS4s and other stakeholders in developing workshops and supporting educational materials. Workshops will be developed with input from project partners and planning committees as needed.
- Develop workshop materials and provide logistical support including: workshop flyers, agendas and other notices distributed primarily through electronic news, manage registrations, coordinate with speakers and attendees, organize meeting arrangements and other logistics, and evaluate training results using pre- and post- workshop testing where appropriate.
- Manage subcontracts with trainers and/or reimburse speakers expenses for workshop preparation, travel and related expenses where funds are budgeted for this purpose, with assistance from the Southern Rhode Island Conservation District as needed.
- Maintain workshop website. All workshop materials including flyers and registration forms, presentations, handouts, and other supporting educational materials, will be made easily accessible via the ristormwatersolutions.org website, maintained by RI NEMO. Where appropriate, the URI Coastal Institute will assist in coordinating educational and outreach efforts with statewide coastal management initiatives carried out under the umbrella of the Coastal Institute.
- Coordinate with the URI T2 Center to co-sponsor and assist with training where possible.
- URI may charge registration fees to offset training expenses not included in the budget for this task, including but not limited to, travel expenses for presenters, refreshments, meeting room and audio visual fees, printing, and other expenses. Where registration fees are necessary to cover expenses, a sliding fee scale and/or incentives will be offered to state, local and nonprofit organizations.

Trainers: DEM/CRMC staff; other professionals to be identified based on workshop topic. URI will coordinate with T2 Center to provide training to appropriate audiences.

Format: To be Determined (TBD); May be conducted through meetings, presentations, training sessions with practice exercises, or guidance documents. An annual RI stormwater meeting may be considered in later stage of the project with speakers showcasing LID project examples and lessons learned using the RI Standards Manual or related LID guidance.

Lead / Support: DEM /URI

Deliverables:

- 1 - 3 workshops annually (determined by DEM)
- Annual schedule of stormwater manual workshops developed and incorporated into project work plan, to include: topic(s), target audience, preliminary format, trainers, supporting educational materials needed, and responsibilities
- Coordination with MS4s, including opportunity to comment on training topics annually, and to participate in workshop planning on an ad hoc basis
- Draft and final workshop agendas and training modules including presentations, handouts, and exercises

- Workshop organization, publicity and registration including: workshop flyer, electronic notices and other publicity, website, registration, communication with speakers and attendees, meeting room arrangements, refreshments and other logistics, and training evaluation.
- Workshop conducted, educational materials revised as needed
- Training evaluation completed and workshop materials posted to website

TASK A-2 Inspection and Maintenance Manual for Post Construction Stormwater Facilities

Overview

Inspection and maintenance of post-construction stormwater facilities, particular for LID practices, was consistently reported as the chief concern of all those attending stormwater manual training. Among MS4 stormwater managers, 87% ranked inspection and maintenance procedures as the important topic for future training. These groups expressed a need for guidance in how to conduct inspections and maintenance, and how to promote and enforce compliance with maintenance requirements.

To meet these needs, URI will provide assistance to DEM and DOT in developing an inspection and maintenance manual for post construction stormwater best management practices. The manual will be designed as **templates** that can be easily customized for various types of stormwater best management practices (BMPs) based on site specific landscape features. The templates will address inspection and maintenance activities and procedures to promote and enforce compliance. Supporting instructions and educational materials for MS4 staff and BMP owners will be included. The need to create different templates for use with linear transportation projects versus other commercial and residential development projects will be considered and prepared if needed. Training and practice in using the templates will be provided under Task A-1 of this project.

Similar to the Stormwater Standards Manual, we expect the Inspection and Maintenance Manual will be a state document, with DEM and CRMC as “owners” and responsible for future updates. URI will be responsible for managing development of the manual with active involvement of project partners (DEM, CRMC, and DOT). An advisory committee of MS4 representatives, consulting professionals, and others will be formed to provide guidance in scoping the manual, identifying available inspection and maintenance resources, and reviewing manual drafts. DEM and CRMC, with support from DOT, will be responsible for the technical accuracy of the inspection and maintenance procedures.

We expect that the manual can be developed with in-house expertise at state agencies and URI support. However, the assistance of a professional contractor will help ensure that the final manual addresses a range of post-construction practices, meets needs of DOT and other MS4s, and is designed in a user-friendly format with sufficient guidance for users. We expect that the final product will help overcome resistance to use of LID due to maintenance concerns. Because EPA is also committed to promoting use of LID and Green Infrastructure, we will coordinate development of the manual with EPA Region 1. In addition, we will seek EPA assistance to develop the manual as a model for other Phase II programs beyond Rhode Island.

Task A-2.1 Coordinate manual development with MS4s and EPA Region 1

URI will coordinate development of the manual with support by DEM, DOT, CRMC, and EPA Region 1 where possible. MS4s, private sector professionals, and others will be invited to participate in review and development of the materials at key decision points.

Task A-2.2 Collect and review existing resources

Manuals and related inspection, maintenance and enforcement procedures will be collected and evaluated. The focus will be on readily available information and well established methods that may be practical for use in RI. Materials will be collected by a general web search and requests to MS4s, UNH stormwater center, and stormwater professionals. This is a short term effort, and not a comprehensive search.

Task A-2.3 Outline manual contents

URI will evaluate collected materials, select models for RI, and outline the contents of the manual and its use, considering the following features:

- **Scope of manual.** At a minimum the manual will address post construction stormwater management facilities focusing on nonstructural LID (stormwater credit) practices and structural treatment practices for water quality control specified within the RI Stormwater Manual. The need to include pretreatment practices, storage practices for water quantity control, and pre-existing drainage system components will be determined by DEM and DOT.
- **Manual format.** The main body of the manual will be the inspection and maintenance templates with inspection checklists, schedules, and maintenance reporting forms. The templates will be easily customized, similar to the RI Model SWPPP, based on factors such as BMP design, site conditions, and any specialized maintenance requirements. Other supporting information may include, for example, instructions in troubleshooting typical problems and corrective maintenance measures.
- **Procedures for communication and enforcement.** The manual will include procedures to promote proper inspection and maintenance, and to enforce compliance with such requirements. In determining the scope of work, the need to develop different templates based on the local, State, or non-traditional MS4 responsible for project approval and enforcement, and type of BMP owner.
- **Residential LID.** The need to simplify inspection and maintenance materials for residential properties will be considered, including individual lots with rain gardens or other small scale practices. Separate templates may also be needed for homeowners associations who own for drainage systems, particularly in procedures MS4s can use to communicate with these groups and support compliance.
- **Regulatory authority.** DEM and CRMC will determine if the inspection and maintenance manual is adopted as enforceable regulatory standards or provided only as technical guidance.

Task A-2.4 Prepare draft and final manual

URI will coordinate development of the manual with assistance from agency partners. The final will incorporate input from MS4s, consultants, and agency staff to address both technical issues and enforcement procedures. Preparation of the final manual will include final editing, revisions to graphics, design and layout, and final production of the document for publication. The manual will be designed as a printable document. On-line access in a format optimized for mobile devices will be considered.

Task A-2.5 Distribute the final inspection and maintenance manual

The manual will be made available through the DEM website with links from other state agency sites and URI. Supporting materials will be prepared including a summary factsheet on the manual, with publicity on

release of the manual provided by agency partners and URI. Training in use of the inspection and maintenance manual will be developed and conducted under Task A-1 of this project as needed.

Lead / Support: URI / DEM

Deliverables:

- Meeting agendas and notes, record of communication with MS4s
- Summary of inspection and maintenance resources
- Table of contents outlined
- Draft and final manual developed with input from MS4s
- Final manual produced and distributed as printable document and online access

TASK A-3 Outreach and Training in Use of the Revised RI Soil Erosion and Sediment Control Handbook

The RI State Conservation Committee (RI SCC) has agreed to a major revision of the RI Erosion and Sediment Control Handbook. The revision is currently underway, spearheaded by the Rhode Island Resource Conservation and Development (RC&D) Council, in cooperation with an expert review panel composed of private sector volunteers and government agency staff representing DOT, DEM and CRMC. The revised handbook is based on a number of reference materials, including, but not limited to the 2002 Connecticut Erosion and Sediment Control Guidelines, the 2005 New York State Standards and Specifications for Erosion and Sediment Control, and other state manuals and documents.

The Southern Rhode Island Conservation District (SRICD) is managing this project, with funds provided by the USDA Natural Resources Conservation Service, through the end of March, 2013. There are no other funds to support the project after this point. Since March, the volunteer committee has proceeded with the review process and final edits with support from agency staff, primarily DOT and DEM. The release of the final revised Handbook is scheduled for March, 2014.

Under this task we propose to distribute the revised RI Erosion and Sediment Control Handbook, develop an outreach and training program in use of the updated Handbook: and develop a condensed field guide for contractors and field inspectors. The Southern Rhode Island Conservation District (SRICD) will have primary responsibility for completing this work, under sub-contract to URI, with support from URI and agency partners as needed.

Task A-3.1 Distribute the revised erosion and sediment control handbook

- After the completion of the public review comment period and final edits, develop the final Handbook as a printable document to be viewed and downloaded from the RI DEM website. It is expected this may require limited final revisions to graphics, design and layout. The possibility of printing a small number of handbooks will be considered based on needs of agency staff and printing costs.
- Finalize the RI DEM website as the central location for public access to the Handbook, related documents, and future revisions. The RI State Conservation Committee and RI DEM will cooperate to maintain and update the handbook with notification of future revisions managed

through subscription to a list serve made available to those accessing the Handbook. The website will include and /or link to existing resources for construction site stormwater control and permit compliance, including links to the RI model SWPPP, the RI Construction Site Stormwater Compliance Self-Certification Program, and other supporting materials developed under this project. Information on workshops and supporting training materials will continue to be made available through the RIstormwaterSolutions.org site with links to this website and others sites as appropriate.

- Publicize availability of the Handbook via press releases, e-news, professional newsletters, etc., in cooperation with the review panel and state agencies. The SRICD will engage industry professionals and organizations, both public and private, to assist in this publicity. This task will include development of a factsheet summarizing key features of the Handbook.

Task A-3.2 Develop a training program in use of the Erosion and Sediment Control Handbook

The goal of the training program is to build practical skills in using the updated and new control measures and in complying with new procedures presented in the updated Handbook. The program will be designed to provide a basic overview of the Handbook for all users in the first year of the project, highlighting the following topics. In subsequent years, basic training will continue as needed, with additional training developed and conducted on specialized topics or for specific audiences.

Topics

- New and updated features of the revised Handbook
- Proper implementation of new site planning techniques, housekeeping and control measures
- State and local permit coordination
- Procedures for inspection, maintenance and enforcement
- Use of the RI Model SWPPP (or Soil Erosion and Sediment Control plan).
- Implementation of the RI Construction Site Stormwater Compliance Self-Certification Program (Environmental Results Program, or ERP) at DOT construction sites and projects subject to municipal review

To the extent possible, the training will be customized to suit key audiences such as MS4 construction site inspectors and plan reviewers, DOT staff and their contractors in applying the Handbook to linear projects, and other contractors responsible for installing and maintaining erosion controls.

Field training may be held to demonstrate and/or provide practice installing new types of erosion control measures. Condensed training will also be considered for municipal officials, project managers, and builders responsible for small residential sites. The opportunity to link training to existing professional certification programs for site inspectors will be explored.

Tasks

- Organize and coordinate with an advisory review committee to guide design of the training program. Members of the existing Handbook committee will be invited to participate, with new members recruited as appropriate. It is likely that subcommittees will be formed to plan individual training programs.

- Compile information on existing erosion and sediment control (ESC) training and certification programs, including but not limited to those offered by the Massachusetts Association of Conservation Commissions, T2 Centers, Maine DEP, NC State University, CPESC Inc., the IECA, and other government /professional organizations.
- Draft the training plan. The plan will establish the scope of training, target audiences, training objectives and evaluation methods, format of each program, and preliminary schedule of training. For each program, the plan will identify supporting guidance and educational materials needed, co-sponsors, trainers, and potential locations. Training programs for MS4s and DOT will be designed with input from the URI T2 Center and with their co-sponsorship where possible. Options for creating a self-sustaining training program will be considered, including opportunities to partner with entities currently offering training in ESC and related stormwater topics.

At a minimum, the following training modules will be considered:

- Basic training module for MS4 field inspectors, plan reviewers and contractors;
- Training for DOT field inspectors and contractors in installing, maintaining and inspecting erosion and sediment controls during active construction, possibly as field training. This will be coordinated with specialized DOT training under Task A-5.
- Brief “tailgate” training for construction contractors and MS4 public works staff, with educational materials for participants and trainers.
- Condensed training for municipal officials, board and commission members, and project managers. This module will include educational materials for their use, such as:
 - o Recommended procedures for pre-construction meetings with contractors with supporting educational materials
 - o Summary of basic erosion and sediment control practices used on residential lots for those applying for building permits and land development projects
 - o Factsheet on application requirements for property owners and builders seeking a building permit for small residential sites
 - o Factsheet for municipal officials on local responsibilities in applying the Handbook and procedures for state/local permit coordination
- Finalize the plan with input from project partners and MS4s as needed. Incorporate the plan into the project work plan and update the training schedule annually.

Task A-3.3 Develop training modules and conduct training

- Select staff and/or contractors. The SRICD will identify qualified professionals available to develop the training modules based on the completed training plans and to conduct training. The training may be conducted by members of the Handbook advisory review committee and state agency staff. Where additional assistance is necessary, the SRICD will be responsible preparing a request for proposals for a contractor and/or conducting a search for a temporary employee to assist in this task. For workshops sponsored by the T2 Center, the SRICD will be responsible for applying to the T2 Center for support to cover trainer’s expenses, in developing training materials, and in delivering the program.
- Develop modules and conduct training. For each training program, the module will include all presentations, handouts, exercises, factsheets, and other supporting materials. These will be designed to build skills in using updated measures and procedures, specifically for each target audience. To the extent possible, training methods will be designed to actively engage trainees in active learning, using interactive techniques throughout the program.

- Seek input from the advisory committee at each stage in developing the training program, to include:
 - For each program, prepare draft agendas, training modules, and schedule
 - Finalize the agenda, workshop schedule, and complete training module to include presentations, exercises, handouts, and other supporting educational materials
 - Organize the workshops to include: workshop flyer and e-news, publicity, workshop website, registration, meeting arrangements, coordination with trainers and registrants, training evaluations, and other logistical support. URI will provide assistance in this task.
 - Make all training materials available online for easy access and use before each program
 - Conduct training program(s).
 - Modify training modules as needed based on feedback from the review committee, trainers, and results of workshop evaluations. For each program, prepare a trainer's module with additional resources needed to plan and deliver the program.

Task A-3.4 Develop a Field Guide to Erosion and Sediment Control

The purpose of the Field Guide is to offer a quick reference on proper installation, inspection, maintenance and trouble-shooting of erosion and sediment controls for field staff, primarily field inspectors and supervisors. The guide will be developed in the final year of the project if needed, based on DOT and DEM priorities and interest by Handbook users. Workshop evaluations conducted under Task A-3.3 will be used to survey inspectors and others on potential use of the field guide and key features needed. Waiting until the final year will also allow time for any corrections or updates to the Handbook that might be needed.

- Collect and review examples of existing field guides, including those developed by the MA Association of Conservation Commissions, University of Minnesota, and CT, NC and KY state agencies. Search for examples designed for mobile devices.
- Survey handbook users on need for field guide through workshop evaluations. Identify key information needed, type of mobile devices used, and most useful format considering online format optimized for mobile devices, downloadable pdf, and printed guide.
- Outline contents and select format with input from the review panel and considering costs to develop, update and distribute.
- Prepare the draft and final guide, and produce in final format(s). If web access version is used, conduct usability testing at draft stage.
- Distribute the Field Guide. Prepare summary information about the guide and publicize its availability. Update the training modules to address use of the field guide as needed.

Trainers: TBD; may be conducted by state agency staff and members of the advisory review committee.

Lead / Support: SRICD / DEM, DOT, URI, Advisory Committee,

Deliverables:

Year 1

- Final Handbook produced and distributed
- Publicity and summary factsheet on the Handbook
- Summary of existing erosion and sediment control training programs

- Training plan with schedule and outline of training modules
- Complete basic training modules for 3-4 types of programs, with all supporting educational materials, considering:
 - Handbook overview for MS4 field inspectors, plan reviewers and contractors
 - Handbook overview customized for DOT field inspectors and contractors
 - Condensed training for municipal officials and project managers
- Field guide produced if needed

Years 2 - 5

- Training schedule developed and minimum of 3 training programs completed annually. Basic program offered as needed. Specialized programs by topic and audience developed and conducted as needed, considering for example, “Tailgate” training for construction contractors and MS4 public works staff, and use of Field Guide for inspectors.

TASK A-4 Model Ordinances, Technical Support, and Training to Incorporate RI Stormwater Standards in Municipal Ordinances and Regulations

Overview

The purpose of this task is to enable RI municipalities to apply the RI Stormwater Manual standards to land development activities subject to municipal approval, including small projects not regulated by DEM or CRMC. This task will support compliance with the MS4 general permit for post construction stormwater management by providing direct assistance to municipalities in updating land use standards, and by providing consistent, peer-reviewed ordinance language for use by all MS4s in updating ordinances. The major sub-tasks include the following:

- Develop model language and supporting guidance for planners to apply the RI Stormwater Manual standards in local ordinances and regulations, focusing on excerpts that can be inserted into existing codes.
- Work directly with selected communities to review local ordinances and draft recommended updates, using the model provisions as a guide.
- Provide municipal officials with training and educational materials to support adoption of LID ordinances in all communities throughout the state.

Need for Local Ordinance Updates

RI Municipalities are required by their MS4 permit to have applicants for local permits adhere to the RI Stormwater Design and Installation Standards Manual (as noted in Section 1.2 of the Manual). At a minimum, the permit requires MS4s to manage runoff from new and redevelopment projects disturbing one or more acres, including projects less than one acre that are part of a larger common plan of development or sale. Most, if not all MS4s currently require use of the RI Stormwater Manual in design of subdivisions and other land development projects. However, these references alone are not sufficient for the following reasons:

- The RI Stormwater Manual establishes Low Impact Development (LID) as the primary method to avoid and reduce stormwater runoff impacts to the maximum extent practicable, beginning with LID Site Planning and Design Strategies as the first minimum standard. To meet this standard,

municipalities must review land development standards that can generate excessive runoff, and revise these to incorporate current LID practices. This includes for example, roadway and parking design, clearing and grading standards, landscaping requirements, and wetland buffer setbacks. These standards are not found in one ordinance, but are embedded in Zoning ordinances, Subdivision and Land Development Regulations, and other stand-alone ordinances.

- Use of the RI Manual on small sites needs to be addressed. The Stormwater Manual clearly notes that the design and installation standards are not only for subdivisions and other land development projects but “should be applied to the maximum extent practicable for single-family lots of record” (Section 1.2). The RI Stormwater Management Guidance for Individual Single-Family Residential Lot Guidance should also be referenced where appropriate.
- Application review procedures need to address stormwater planning in early stages of project review. This should begin with soils-based site assessment at pre-application review, and site planning in early master plan review phase. In many local ordinances, LID may not be addressed at all and drainage plans are typically required only much later, with development of preliminary engineering plans.
- Municipalities must ensure consistency between local and state standards. For example, in cases where local regulations specify design storms for flood control or infiltration volumes, the local provisions must at least meet state standards.
- Local policies and standards are needed on applying the Manual in critical areas. The Manual establishes minimum standards and clearly notes that higher levels of stormwater treatment may be needed cold-water fisheries, special resource protection waters, and impaired waters. In addition, areas with approved TMDLs, the MS4 is responsible for preventing any increase in the pollutant of concern to waterbodies with an approved TMDL, which may require more stringent standards than the state minimum.
- Effective local procedures are needed for long term stormwater system inspection and maintenance Existing procedures need to be reviewed, updated as needed, and incorporated into local ordinances and regulations consistent with the RI Manual standards.
- Procedures are needed for coordination of local and State storm water management permits, and referrals for enforcement action. This includes situations where municipal and DOT drainage systems are interconnected.

Approach

To address these needs, we will work directly with municipalities to update land use standards. A consulting professional planner(s) will be hired to lead this effort, with support by stormwater design/engineering professionals as necessary. Providing direct technical assistance was selected as the most effective strategy based on surveys of MS4 stormwater managers, who clearly expressed a strong preference in two areas: 1) Assistance in applying the RI standards, rather than training alone; and 2) Technical guidance in applying the standards, including procedures to enforce compliance. Development of consistent, peer-reviewed ordinance language created under this task will provide the specific guidance all RI communities need to apply the updated storm water standards, including those not receiving direct assistance in ordinance review.

Task A-4.1 Organize an advisory committee and develop a work plan

The committee will provide guidance and oversight in project development and will consist of project partners, municipal planners, and other interested professionals. Ad hoc subcommittees will be formed as needed for each subtask to ensure diverse interests are represented, including for example, developers and builders, consulting engineers, and building inspectors.

Specific roles and responsibilities of participants will be determined in discussion with the group but will include: assistance in collecting local ordinance examples, review of draft products and outreach methods, advising on the process of selecting and working with municipalities to update ordinances, workshop planning, development of educational materials, and assistance in publicizing the project and distributing results.

- DEM and CRMC staff will provide technical review of proposed local stormwater standards and make recommendations to ensure consistency with the RI Manual. In addition, agency staff will assist in developing procedures for state and local permit coordination, and for inspection and maintenance of stormwater facilities, including referrals for enforcement where state and local drainage systems are interconnected.
- Refine scope of work with input from the advisory committee. The scope of work will address issues such as: types of stormwater ordinances and standards to be reviewed, suitability of readily available example ordinances, communication with MS4s, priority for direct technical assistance considering watershed types and pollution prevention benefits with future growth and redevelopment; procedures for selecting participating communities; extent of technical assistance provided, responsibilities of participating municipalities; and design of training workshops and educational materials. The work plan will be updated annually.
- Contract with a consulting professional planner. URI will be responsible for managing the contract with the consulting planner, with assistance from the SRICD as needed. The consultant will lead development of the model ordinance provisions, prepare draft agreements with municipal officials receiving technical assistance, and complete ordinance reviews and recommended updates working directly with town staff and/or boards with support from RI NEMO. DEM and CRMC will provide assistance as needed. In addition, the consultant will assist with workshop planning and delivery under Task A-3.4 and review of educational materials to support implementation of stormwater ordinances under Task A-3.5.

Task A-4.2 Develop model language for local plans, ordinances and regulations

Development of consistent, peer-reviewed ordinance language will provide a standard reference for the planning consultant and project staff conducting the ordinance reviews, as well as for municipal staff doing this work on their own.

- Collect example ordinances and model language for local stormwater management. This will focus on excerpts to be included within subdivision and land development regulations and zoning, with secondary attention to local plans and other ordinances. A survey of RI planners may be used to identify the most current and complete examples, as well as innovative methods used to manage stormwater impacts on critical resources. Other readily available examples from MA, CT and other sources will be considered as needed. This review will center on the following three major areas:

- (1) LID site planning and design strategies. The Rhode Island Low Impact Development Site Planning and Design Guidance Manual (DEM, 2011) will be used in this review, with the emphasis on simple changes that can be easily implemented, including site clearing and grading standards, roadway design, parking guidance and landscaping standards. Other special purpose ordinances may be addressed such as riparian buffers and impervious cover standards, depending on local priorities and as resources permit.

 - (2) Incorporating the RI Stormwater Design and Installation Standards Manual in local ordinances and regulations. This review will address issues such as:
 - Appropriate references to the RI Standards Manual
 - Incorporating LID site planning requirements in early project review, including site assessment Application checklists (consistent with appendix A of the RI Standards Manual) for land development projects, building permits, and zoning approvals
 - Types of local land development applications where the RI Standards Manual and/or RI Stormwater Management Guidance for Individual Single-Family Residential Lot Development should be used. This will include all new construction and redevelopment on sites disturbing 1 acre and greater, and may include sites disturbing less than one acre depending on the type of activity and/or its location.
 - Types of activities and locations where more protective local stormwater management standards such as no-net increase in stormwater pollutants, volume controls or redevelopment triggers, are needed to protect critical water resources, restore impaired waters, or control localized flooding.
 - Coordinating local permit review with DEM, CRMC and DOT, including pre-treatment of runoff on sites draining to state-owned storm drains
 - Ensuring use of LID for land disturbance activities and landscape care on property owned and managed by MS4s

 - (3) Stormwater System Inspection and Maintenance Ordinance. Standards and procedures for post-construction stormwater system inspection and maintenance will be collected and reviewed. Where available, this will include examples for different types of BMP owners, including commercial, single family residential, homeowner associations, and public properties owned by municipalities and other MS4s.
 - DEM will be responsible for determining the adequacy of the model stormwater management ordinance provided to MS4s early in the Phase II program.
 - This task will be coordinated with development of the inspection, maintenance and enforcement procedures under Task A-2., which we expect will provide the primary guidance for local ordinances on this topic.
 - The need to make stormwater system inspection and maintenance procedures available as either a model ordinance or as excerpts for use in subdivision regulations and zoning will be based on input from the advisory committee members.
- Identify need for ordinance updates on construction site stormwater management based on the revised RI Erosion and Sediment Control Handbook (expected completion date July, 2013) and the RI Storm Water Pollution Prevention Plan (SWPPP). DEM will provide assistance in this task.
 - Evaluate collected ordinances, select best examples as models, and draft new model language as needed. Identify appropriate sections of subdivision regulations and zoning where excerpts can be inserted and/or or reference made to use of the RI Manual and related guidance manuals.

- Compile Model Ordinances with User Guide
 - Model ordinance language will be organized and made available using an ordinance database at the RI NEMO website with links from ristormwatersolutions.org.
 - Concise guidance in using the model language to review and update local land use standards will be prepared, most likely by annotation of the example ordinances. The annotation will identify recommended standards and procedures that either directly support compliance with Phase II requirements or generally promote use of LID and implementation of the town's stormwater program. Other issues that may be addressed include, for example: background information on the need for revisions; types of LID practices that are most appropriate based on land use, type of water resource, or pollutant of concern; and rationale in selecting the recommended language and other alternatives that may be considered.
- Distribute results. Model ordinances and supporting guidance will be made widely available through electronic communication from URI in cooperation with partners, including RI APA, Statewide Planning, and others.

Task A-4.3 Work with selected municipalities to update ordinances and regulations

The planning consultant will work directly with municipal staff and boards to review ordinances and regulations, draft recommended updates, prepare informational materials for local officials and the public, and participate in hearings on the proposed revisions to address technical issues. URI and agency staff will provide assistance, with input from the advisory committee. Steps in implementing this task will include the following:

- Establish a process for providing technical assistance to municipalities on updating ordinances. Issues to be addressed will include for example:
 - The priorities for selecting participating municipalities considering factors such as state agency watershed priorities, potential benefits of using LID to prevent degradation of high quality waters vs. restoration of impaired waters, level of municipal interest and schedule for updating local ordinances.
 - Opportunities to leverage other staff support and/or funding
 - Extent of services to be provided, addressing scope of work for the planning consultant, URI responsibilities, role of agency partners, and the advisory committee
 - Municipal responsibilities, including extent of in-house support by municipal staff and board members, and legal and/or engineering review by staff or consultants
 - Draft a model agreement between URI and the municipality
 - Determine how progress will be monitored and results evaluated.
- Publicize technical assistance program and recruit municipalities. Prepare and distribute outreach materials, conduct information meeting(s) to introduce the program if necessary. Select participating communities with input from project partners. Meet with staff and local officials as necessary to define scope of the project in each municipality considering local needs and priorities. Establish URI and municipal responsibilities and finalize agreements. Local responsibilities may include for example: a resolution by the town/city council to participate and make good faith effort to adopt ordinances; attendance at project meetings to provide input and review drafts; coordinate review by town staff and/or consultants including public works, safety, engineering, and legal counsel.
- Review ordinances and prepare draft and final recommendation. The model ordinances developed in the preceding task will be used as a guide. The recommended updates will be made as tracked changes, with annotation as needed to providing supporting information, such as

rationale for the change, compliance with Phase II permit requirements, and alternate language or regulatory mechanisms that may be considered. The draft will be finalized based on input from the town and the pre-determined scope of the project, and submitted to the town.

- Public education to support ordinance adoption. Prepare summary factsheet(s) about the proposed ordinance changes for council, board and commission members, developers and builders, and the general public. With town staff, determine the best approach to publicize the proposed changes, seek input from the local stakeholders affected, and conduct public education and information sessions as necessary prior to public hearings. The consultant and URI will participate in public meetings on the proposed ordinance(s), with assistance from DEM, CRMC and others as needed. The town will be responsible for providing information to DEM on adopted ordinances, including certification of compliance by legal counsel where appropriate.
- Public education to support compliance with adopted ordinances. Finalize information about the ordinance revisions and prepare new materials based on needs identified by town staff and other local officials. Topics may include for example, overview of the LID requirements for developers and those seeking building permits, plan review procedures for town boards focusing on LID elements, and instructions for maintaining LID facilities on privately-owned parcels. Methods to distribute the information to appropriate audiences will be developed by the town with input from URI.
- Distribute results. Updated ordinances and regulations, and related educational materials will be made available at the RI NEMO site with links from RIStormwaterSolutions.org. This may be the version recommended by project staff and/or final adopted by the town. Information about these materials will be publicized regularly as new examples are generated, using URI electronic news partner list serves, and professional newsletters.

Task A-4.4 Develop MS4 workshop on using the model language to update ordinances

This training workshop will be designed for municipal planners but will also be appropriate for other staff and boards responsible for updating land development standards and/or reviewing land development applications. The training will be held as either a half day program or shorter. A brief presentation for council, board and commission members may also be created depending on interest.

URI will develop training materials and conduct training, with assistance from the planning consultant and support from agency partners and the advisory committee. Responsibilities will include:

- Coordinate workshop development with the advisory committee. A workshop planning subcommittee may be formed to ensure all interests are represented. Developers and builders, town and/or consulting engineers, landscape architects, and building inspectors will be invited to participate. The committee will advise on key project elements such as training priorities, draft and final agendas, development of draft and final training modules, selection of trainers, workshop schedule and location(s), publicity materials, and evaluations. Other organizations providing training for municipal officials will be invited to participate in project planning, including the RI Chapter of the American Planning Association (APA RI), the Grow Smart RI training collaborative, the Narragansett Bay Research Reserve Coastal Training program, and the URI T2 Center.
- Prepare training outline. Topics to be addressed will include the following:

- (1) Reviewing and updating local ordinances and regulations. This session will introduce the model ordinances and offer practice in using the materials to include for example, locating sections of subdivision regulations and zoning that may be outdated or inconsistent with the RI Stormwater Manual Standards, identifying updates that support compliance with the RI standards, and selecting updates that are appropriate for the community and type of water resources. In addition, this session will provide an opportunity for discussion with fellow planners. Staff and boards in communities that have adopted LID practices will be invited to participate to share their knowledge and experiences. State agency staff will address technical questions on stormwater system design, inspection and maintenance procedures, and Phase II permit requirements.

 - (2) Application review procedures using the RI Stormwater Manual standards. This session is designed to supplement, not substitute for, MS4 technical training in applying the Stormwater Standards Manual provided under Task A-1. Using the model guidance and checklists developed in Task A-3.2, this will address procedures for incorporating LID site planning and design in the local review process. Topics to be addressed include: information requirements, issues to be addressed at each stage of review, and state and local permit coordination. Examples will include projects disturbing less than 1 acre such as residential building permits and zoning applications on difficult sites, and those disturbing one acre or more, including subdivisions and other land development projects requiring multiple state and local permits. A practice exercise will be incorporated to reinforce concepts. Agency staff will participate in conducting the workshop to address state and local permit coordination and technical questions.
- Develop draft and final agendas, workshop format, and training materials with practice exercises. A pilot training for a small group may be held to test the materials. The final module will include all materials used in the workshop such as agenda, exercises, checklists, and other handouts. In addition, a trainer's module will be prepared with supporting resources such as include workshop setup instructions, presentation details, workshop notices, evaluation forms, and other materials as needed.

 - Establish workshop schedule and location. Prepare workshop flyers and related publicity. Manage registration and meeting logistics. Coordinate with trainers, and prepare workshop evaluations to document change in knowledge, attitude or behavior.

 - Conduct training. At least one workshop will be held, with additional workshops and/or presentations depending on interest. Revise the workshop modules as needed based on workshop results and participant evaluations.

 - Distribute workshop materials. All presentations and supporting resources will be posted at the RI NEMO and ristormatersolutions.org websites. URI will publicize availability of the materials and encourage town staff to use with their board members through URI e-news and partner list serves, including RI Chapter APA and GrowSmartRI.

Lead / Support: URI with consultant / DEM and MS4s

Deliverables:

- Work plan updated annually

- Ordinance examples collected and drafted as needed

- Model ordinance provisions compiled with user guide
- Procedures established for municipal technical assistance
- Up to six municipalities recruited and agreements signed
- Ordinances updated in up to six municipalities
- Educational materials and support at public meetings
- One complete training module in updating local ordinances
- At least one workshop conducted for MS4 staff and boards
- All products made available at the URI website

TASK A-5 Specialized DOT Staff Training

All training programs developed and conducted under this project will be open to all DOT staff and sufficient space will be provided for all DOT staff as needed. In some cases however, DOT staff and their consultants may require specialized training on planning, design, inspection and/or maintenance of stormwater drainage systems serving state roadways and facilities.

Training topics and schedules will be determined by DOT staff but will focus on applying the stormwater manual standards, particularly use of LID, operation and maintenance of post construction BMPs, and use of the revised RI Erosion and Sediment Control Handbook. The training will be organized in cooperation with the T2 center. We will also explore opportunities to conduct practical field training at project sites during active installation of BMPS and as part of required inspection and maintenance activities and/or as “tailgate” training. Methods to promote participation in training and enhance effectiveness will be investigated such as including training requirements in bid specifications and contracts, offering continuing education credits under existing certification programs, and involving the responsible project designers, installers and supervisors in the programs. Training topics to be considered will include, but are not limited to, the following:

- **Installing, maintaining and inspecting erosion and sediment controls during active construction**

This training for field supervisors and internal specification writers will focus on using the updated RI Erosion and Sediment Control Manual for linear transportation projects and proper installation and use of new technologies for erosion and sediment control. The training objective is to address specific and practical matters field inspectors face while on the job, including for example:

- What are the design specifications for each BMP and unique features?
- What to look for when BMPs are being installed, before complete protection of the area?
- What to look for to ensure BMPS are working properly?
- What needs to be done to correct a problem?

We will investigate the feasibility of conducting this training at DOT construction sites in conjunction with actual installation activities, and as part of required inspections, maintenance and reporting under the Self-Inspection ERP. This will be coordinated with training on the revised

RI Erosion and Sediment Control Handbook under Task A-3 and research of the DOT Self-Inspection ERP.

- **Contractor training in installing and maintaining new RI stormwater treatment practices during active construction**

Alternatives for contractor training in using updated stormwater treatment BMPS for DOT projects will be investigated. Information on existing programs will be collected, including training offered by the New Hampshire Transportation Center, North Carolina State University, the National Highway Institute, and others. We will consider the feasibility of customizing the training to address particular site(s) to address design of the LID practice and/or structural BMP used, and also to direct training to the contractors working at that site. This may include training at different stages beginning with pre-construction meetings. This training will be coordinated with workshops on the Manual conducted under Task A-1.

- **Inspecting and maintaining new RI stormwater treatment practices during POST construction**

This training for DPW/Maintenance staff will focus on inspecting post-construction BMPs and proper maintenance. As in the previous topics, the goal will be to conduct the training as part of the scheduled inspection and maintenance of LID practices at particular sites, working with those responsible for inspections and reporting. This will be coordinated with Manual training under Task A-1, and with development of an inspection and maintenance template under Task A-2.

Trainers: TBD; State agency staff and/or consultant.

Format: TBD; field training ideally.

Lead / Support:

- Erosion and sediment control training: SRICD / DOT, DEM, URI
- Post Construction BMPs: DOT / DEM, URI

Deliverables:

- Educational module for at least one training program
- At least one training program conducted

TASK A-6 MS4 Training in Developing a TMDL Implementation Plan

Rhode Island stormwater managers have limited capacity to undertake water quality restoration activities where local waters are impaired by stormwater runoff. Where a total maximum daily load (TMDL) study finds that stormwater discharges are causing the impairment, the MS4 must develop a TMDL implementation plan and follow it through to restore the water body. Complying with this Phase II permit requirement has generally been difficult for MS4s. In addition, actions taken have varied widely, ranging from little progress, especially in communities hit hard by the economic downturn, to hiring consultants to undertake the task entirely. It is clear that MS4s need specific guidance in developing TMDL Implementation Plans, including parts that can be done in-house with existing staff and parts that may require outside consultants.

The purpose of this task is to support MS4 compliance with TMDL implementation plans by providing training and development of supporting guidance /educational materials in how to design and carry out an implementation plan, using in-house staff and low cost measures where possible.

DEM will be responsible for leading this task, with support by URI. All elements of this task will be developed in cooperation with an advisory committee organized by DEM to include DOT, other agency staff, and representatives of MS4s, and others as appropriate.

URI will assist DEM in coordinating with the advisory committee, planning workshops and establishing agendas, communicating with MS4s, managing registrations, coordinating with speakers, managing workshop logistics, and assisting with development of supporting educational materials.

Overview of MS4 workshops on implementing TMDL plans

This training will be designed as a series of informal meetings for MS4s, agency staff, and invited speakers to share methods used to develop and carry out TMDL implementation plans. The emphasis will be on practical, low cost examples from RI and the New England region. The following sessions are planned:

- (1) TMDL Basics – How to develop an implementation plan. Topics may include, for example: What is an implementation plan, step-by-step guidance in prepare the plan, updating Storm Water Management Program Plans (SWMPP), methods to implement the restoration plans at the watershed scale and site level, DOT/municipal coordination in TMDL implementation, and examples of successfully implemented restoration plans.
- (2) Components of the Plan. This session will focus on stormdrain analysis and illicit discharge detection and elimination (IDDE), including for example: how to identify catchment /contributing areas; steps in conducting an effective analysis of the catchment area, coordination between DOT and other MS4s on shared systems; responsibilities for private drainage flowing to MS4 stormdrains and enforcement of no net increase of pollutants of concern with new development or redevelopment; IDDE surveys, setting priorities for correction, and procedures for responding to violations.
- (3) Budget Planning - Creating an affordable restoration plan. Topics covered in this session will include for example: process of creating the plan and identifying budget items; parts of the plan MS4s can do in-house with staff, parts consultants can do and at what cost; examples using low-cost rapid assessments vs. higher cost comprehensive studies, and hybrid methods; example plans completed by RI MS4s, EPA, watershed organizations and consultants; sources of funding available; and developing operational and capital budgets for municipal stormwater management.

Trainers: DEM staff; other invited speakers as needed.

Format: TBD; May be informal 2-4 hour work session or networking meeting.

Lead / Support: DEM URI

Schedule: 1-3 workshops over project term

Deliverables:

- Guidance materials developed on one to three TMDL topics
- One to three workshops conducted

TASK A-7 Technical Support to MS4s in Public Education and Involvement Methods

The purpose of this task is to assist MS4s build effective community outreach programs. Most RI MS4s are already using educational materials and methods created under Part B of this project. Many MS4s have customized the materials, and some are using creative ways to actively engage citizens in stormwater awareness and pollution prevention activities. This represents significant progress since the start of the Phase II Storm Water Education Project. Under the renewed project, we believe much more can be done to improve the effectiveness of local stormwater outreach programs, provided we address one major problem. Most stormwater managers have very limited capacity for public outreach. These managers have multiple responsibilities and very limited time for public education, even if only to coordinate with local groups that could assist.

We propose to address this need by shifting from training to more direct technical support and coordination of MS4s in three areas:

- Coordinate MS4 networking meetings on implementing education programs in TMDL watersheds
- Work directly with MS4s to Develop Public Outreach Plans for Selected TMDL watersheds
- Provide Resources and Guidance to MS4s in Developing Effective Outreach programs

Task A-7.1 Coordinate networking meetings with MS4s on implementing education programs in TMDL watersheds

The goal of the networking meeting is for stormwater coordinators and partners to share information about their education programs identify opportunities to share resources, and where possible coordinate outreach within the watershed. The assistance would be directed to communities that share a TMDL watershed but may also address other priority areas such as drinking water supplies and other special resource protection waters. The meetings will either be scheduled based on local interest, particularly by stormwater managers. URI will work with the input host community to identify the pollution issues and TMDL recommendations, develop the agenda, organize the meeting, and facilitate the discussion to address potential for cooperation and next steps. Speakers from outside the watershed may be invited to share successful methods and partnerships formed to address similar stormwater problems in their communities. URI may provide follow up assistance in designing outreach plans under the following Task A-7.2.

Task A-7.2 Work with MS4s to develop public outreach plans for selected TMDL watersheds

URI will assist MS4s in designing a public education /involvement plan for areas with a completed TMDL. The purpose of this task is to create realistic sample outreach plans for MS4s while also promoting restoration of the impaired waters and permit compliance.

- Review existing education plans developed for TMDL watersheds. DEM will provide representative examples.
- Select priority watersheds based on input from DEM and other members of the project team, local interest, and ability of the MS4 and /or local partners to participate. Factors considered in selecting the study area may include restoration priorities, potential for addressing the impairment through public outreach, and need for local support. In addition, representative watersheds will be selected considering water quality goals, priority pollutants, sources of the pollutant, and target audience.

- In each study area:
 - Organize a local advisory group. Members will include the MS4, local partners such as watershed organizations, neighborhood groups, educators, and the project team.
 - With input from DEM, identify the pollutant of concern, the major pollution sources, identified control measures, specific target audience(s), actions considered most effective in reducing pollutant inputs, and areas within the watershed where actions will have the most direct benefit.
 - Prepare draft and final plan in cooperation with the local advisory group and input from the target audience as necessary. The plan will identify measureable goals for minimum measures one and two, and methods for evaluating progress. To the extent possible, the plan will make use of existing educational materials available from URI and other organizations. Outreach methods will be designed to will build upon existing efforts of local groups and agencies. The final plan will include an implementation schedule identifying responsibilities, outputs and budget.
- Develop four to six plans over the project period, depending on complexity.

Task A-7.3 Provide resources and guidance to MS4s in developing effective outreach programs

URI will continue to coordinate with DEM and MS4s to support public education and involvement in local stormwater programs through the following activities:

- Coordinate with DEM in establishing basic requirements for public education and involvement under Minimum Measures 1 and 2 with renewal of the Phase II permit. URI support may include: reviewing the draft permit, preparing recommendations, coordinating with MS4s to obtain their input, and assistance in organizing a meeting with MS4s on this topic.
- Maintain regular communication with MS4s on public outreach topics. This will be primarily by URI e-news and partner list serves or newsletters, to include:
 - Announcements of new /updated web resources available,
 - Outreach reminders, suggestions and tips for using available resources,
 - Invitations to participate in workshops, technical assistance opportunities and other events.
 - Updates highlighting innovative outreach activities by municipalities and other MS4s, teachers, community groups and others, including accomplishments by recipients of small grants under Part B of this project.
- Continue to respond to MS4 requests for information and assistance in developing education programs. This has including for example, collecting educational resources for specific audiences, guidance in developing outreach strategies, reviewing new factsheets created by the MS4, and providing factsheets, displays and/or staff support for festivals and other public events.

Lead / Support: URI / DEM

Deliverables:

- One to four networking meetings organized annually
- Meeting Agendas, Minutes and summary of action items
- Draft education outreach plans developed in cooperation with MS4s and partners in TMDL watersheds

Four to six outreach plans completed for TMDL watersheds over the project period

- Coordination with DEM and MS4s on renewal of the Phase II permit related to minimum measures one and two
- Record of communication to MS4s promoting use of public education and involvement resources and technical assistance provided

TASK A-8 MS4s Workshops on LID / Pollution Prevention Topics

Training under this task is designed to address identified MS4 needs and to support compliance with the RI Stormwater Standards Manual focusing on LID (Minimum Measure 5) and Pollution Prevention /Good Housekeeping (Minimum Measure 6). The proposed workshops will be conducted based on DEM and DOT priorities, interest by MS4, and depending on support from the URI T2 Center as co-sponsor for workshops. The following types of training are proposed:

- Workshops for non-traditional MS4s on LID standards and enforceable policies
- Pollution prevention training at municipal public works facilities*
- Rain garden training for landscapers, MS4s and volunteers
- Field training for MS4 staff in rain garden / bioretention planting and maintenance*
- Landscape care and turf management for MS4s*

**Note: these programs will be offered depending on assistance from the URI T2 center as co-sponsor.*

Task A-8.1 Workshops for non-traditional MS4s on LID standards and enforceable policies

Under this task URI will coordinate work sessions on applying LID at State and academic institutions regulated as MS4s. Our objective is to promote compliance with the RI Stormwater Manual LID standards by providing opportunities for these stormwater managers to share information on successful LID projects. This will fill an important need as no training or assistance has been provided for this group, yet these stormwater managers must implement the RI Stormwater Manual standards on MS4 property, whether the work is conducted by staff or contracted out. The model ordinance language and training proposed under Task A-4 are not directly applicable, given these institutions must rely on enforceable policies and contract specifications rather than ordinances and regulations.

Two areas of interest have been identified:

- Incorporating LID in Institutional Policies and Procedures. Topics addressed may include: LID standards adopted, procedural review, and methods to incorporate LID in construction contracts. This will highlight methods adopted at the Newport Naval Station, Newport RI appropriate for other non-traditional MS4s.

- Campus Sustainable Stormwater Management. This session will demonstrate how Campus master plans are being used to speed permitting and implement projects at RI College. This will also provide an opportunity to showcase innovative use and maintenance of LID practices at academic institutions and other sites. Groups not technically regulated as MS4s but responsible for stormwater management, will be invited to participate. This includes, for example: the DEM Planning and Development Office who is responsible for park planning and management, smaller academic institutions such as Providence College, and hospitals and businesses working to adopt sustainable stormwater practices.

Work sessions will be held based on interest and participation of the non-traditional MS4s, with the topics selected and agenda developed by the group. URI will provide support for organizing and facilitating the work sessions with project partners.

Lead / Support: URI / DEM

Deliverables:

- Meeting agendas, minutes and action items
- Presentations and /or supporting resource distributed by website
- One to two sessions organized over the project term

Task A-8.2 Pollution prevention training at municipal public works facilities

This practical “tailgate” training is for municipal employees who work at maintenance garages and other public works facilities. The primary focus is on conducting a facility inspection and completing the annual inspection report with active participation of the employees, at the DPW facility. Topics covered include spill prevention and response, good housekeeping practices, and materials management.

Each training program will be customized for the facility using its SWPPP. Stormwater inspection and reporting template(s) available from URI or DOT will be adapted for each facility as needed. Depending on local needs, either first-time or refresher training may be offered. Allison Hamel has already completed this training for DOT staff but has offered to make templates and other training materials available to be adapted for other facilities. Training resources, including the Annual Stormwater Inspection and Report Template are also available at the URI workshop page at: http://www.uri.edu/ce/wq/nemo/Workshops-Support/Previous_Workshops.htm#EmployeeTraining, and from the URI T2 Center based on follow-up training conducted at several municipal DPW facilities.

This program addresses the staff training portion of a Stormwater Pollution Prevention Plan (SWPPP) for public works garages and structures. As a result, this workshop will support compliance with minimum measures for public education and outreach, and for pollution prevention and good housekeeping in municipal operations.

Lead / Support: DOT / T2 Center, URI

Deliverables:

- Workshops agendas and DOT training materials customized for the DPW facility SWPPP
- Facility inspected and maintenance report completed as part of training
- Number of training sites to be determined

Task A-8.3 Rain garden training for landscapers, MS4s and volunteers

The Rain Garden Training program was developed under the DOT Storm Water Education Program in 2011 and in just one year, resulted in construction of four rain gardens in three municipalities. Each workshop includes indoor training and construction of a rain garden at a public site. This comprehensive program addresses all rain garden elements, including planning and siting, state regulations, design, plant selection, installation, and maintenance. The program is appropriate for MS4 staff responsible for rain garden design, installation, and maintenance.

MS4s are invited to host the program which results in construction of one or more rain gardens at a public site. URI is responsible for rain garden design, plant and materials list, coordinating siting and installation with the MS4, overseeing construction, and training including rain garden planting with the class. The MS4 host is expected to assist in selecting a location, prepare and excavate the site, and provide plants, other materials and equipment. Workshop fees are waived for staff from the host community and reduced for other MS4s. Other elements in this task include updating training materials as needed, publicizing the workshops, organizing the program and managing registrations, preparing a training handbook, and evaluating results.

Trainers: URI Outreach Center

Format: Full day or 1 ½ day workshop

Lead / Support: URI Outreach Center / Host MS4

Schedule: 1 workshop annually (depending on MS4 hosting)

Deliverables:

- Workshop agendas, presentations and handbook
- Rain garden designed and installed at a public site

Task A-8.4 Field training for MS4 staff in rain garden / bioretention planting and maintenance

Rain gardens, bioretention systems, grassed swales, and other vegetated LID practices represent a maintenance challenge for MS4 staff more comfortable with riding mowers and string trimmers than hand weeding and pruning. This workshop will be designed to cover the basics of installing plants and mulch within a rain garden, and conducting routine inspection and maintenance. The program may be adapted to address maintenance of any other vegetated LID BMP, including grassed swales, qualified pervious areas, and others. The sessions on planting and maintenance will be designed to be offered separately. Training will include be designed primarily as hands-on field practice as part of the BMP installation and scheduled maintenance. Ideally, the product of the maintenance session would be a completed inspection and maintenance report based on the maintenance plan approved for the BMP and/or templates developed in Task A-2. This workshop is similar to, and may be coordinated with development of specialized training for DOT staff in installing and maintaining updated stormwater treatment BMPs under Task A-5.

Topics to be addressed in the planting session will include: overview of rain garden / bioretention function; sediment removal and decompaction (if needed); preparation of soil/compost mix; proper planting, mulching, and watering; and review of the inspection and maintenance schedule.

The maintenance session will address: overview of inspection and maintenance procedures; identification of rain garden plants vs. weeds; inspecting the BMP to identify trouble spots; completing the inspection and maintenance checklist; identifying additional maintenance or repairs needed, and related administrative procedures.

Trainers: TBD

Format: Primarily field program, 20 minutes – 1 hr.

Lead / Support: URI / T2 Center

Deliverables:

- Workshop agendas and training materials customized for the stormwater BMP
- BMP either planted or inspected and maintained, with report completed as part of training
- Number of training sites to be determined

Task A-8.5 Landscape care and turf management for MS4s

Training and technical support under this task will be designed to promote use of current “low-input” management practices with reduced need for chemical fertilizers, herbicides and watering. This training will support compliance with minimum measures for Good Housekeeping / Pollution Prevention, and for Construction Site Stormwater Management, focusing on preserving soils. The training topics and format will be developed with input from project partners and MS4s. In addition, the programs will be designed to address site-specific issues at each MS4 to the extent possible. The following types of programs will be considered:

- **Employee Training in Lawn and Landscape Care Basics.** This is for MS4 field staff including public works, facilities, and parks and recreation departments. It is appropriate for new employees or refresher, and can be held as brief “coffee break” or “tailgate” training. Topics to be addressed may include:
 - Importance of good landscape care practices and MS4 policies
 - Mowing practices - Mow high as the new standard; identify areas needing special attention and different treatment; reduce mowing to 1 or 2 times/year in low maintenance areas (roadsides) and encourage naturalizing
 - Soil quality - Ensuring soil depth and quality, amend soils with compost at time of seeding/planting (as required by the draft Revised RI Soil Erosion and Sediment Control Handbook, 2013 update, Chapter 18, Soil Preparation and Topsoiling)
 - Lawn maintenance - Topdressing with compost instead of synthetic fertilizer, when and how to aerate high traffic areas
 - Protecting trees - Avoiding damage from trimmers and mowers; proper mulching
 - Plant it right - Proper planting steps for trees and shrubs
 - Administrative procedures necessary to implement existing /new practices; roles of staff and supervisors. Department managers and supervisors at all levels will be encouraged to participate.
- **Natural Turf and Landscape Management for MS4 Grounds Managers.** This program is for MS4 property managers, landscape care supervisors, and other managers responsible for grounds keeping at schools, parks, recreational fields, and other municipal properties. The programs will be customized to address local needs through brief presentations, informal discussion and consultation on specific land management concerns rather a classroom setting.

Basic topics to be addressed will include:

- Transitioning to natural lawn and turf management, including environmental and health benefits, reduced costs, improvements in lawn / plant health over the long term
- Low input seed varieties

- Alternatives to synthetic fertilizers and herbicides
- Lawn maintenance - Topdressing with compost instead of fertilizer, overseeing
- How to interpret soil tests and convert synthetic fertilizer recommendations to compost equivalent
- Dealing with compaction in sports fields and other heavily used greens, when/how to aerate high traffic areas
- Instructing staff and/or contractors so their work is done properly

Onsite Composting topics. A separate session on expanding or improving MS4 on-site composting operations may be developed depending on local interest. The training objective is to enable the MS4 to generate high quality compost suitable for top dressing lawns, or to amend topsoil on MS4 properties before seeding or planting as required under the Draft RI Erosion and Sediment Control Handbook. Topics to be addressed may include:

- Creating or expanding a composting center for lawn clippings, leaves, brush
- Policies for returning grass clippings on lawn or composting
- How to divert materials from trash to composting
- Compost center operating procedures to ensure high quality compost

Trainers: TBD

Format: Primarily field program, 20 min. - 1 hr.

Lead / Support: URI / Co-sponsorship by T2 Center to be determined.

Deliverables: Workshop agendas and training materials for each program.

B. MODEL STORMWATER EDUCATION AND INVOLVEMENT PROGRAM

The purpose of this project element is to update, enhance and maintain the model stormwater outreach program known as Rhode Island Stormwater Solutions. RI Stormwater Solutions is the public education and involvement component of the DOT Stormwater Education project. Consolidating public stormwater education at the state level ensures public messages are consistent in content and reach across municipal boundaries. In our small state this is the most cost-efficient strategy rather than fragmenting outreach among 44 regulated MS4s, many of whom have limited capacity to undertake public education. This approach also allows stormwater managers to choose among a variety of outreach materials and delivery methods that best address specific pollution sources in their communities, and apply them locally in ways that may be much more effective than the statewide campaign.

The RI Stormwater Solutions project is designed to meet the following objectives:

- (1) Develop and deliver consistent messages directly to the public on the need for stormwater controls, actions individuals can take, and ways to get involved in preventing stormwater pollution.
- (2) Provide a comprehensive source of consistent, reliable materials with outreach methods and related tools to aid RIDOT, MS4s, and others implement effective stormwater education and involvement programs.
- (3) Provide direct support to DOT and MS4s in implementing education plans on priority topics and in priority areas, including TMDL watersheds.

All major activities under this project will be coordinated with an advisory group comprised of the project team, stormwater managers and other local officials, environmental educators, and other professionals with interest and expertise in public outreach. Ad hoc committees will be organized as needed to focus input on specific tasks and to obtain their input at key decision points.

TASK B.1 Evaluate Rhode Island Stormwater Solutions and Develop a Marketing Plan

The objective of this task are to evaluate and refresh the RI Stormwater Solutions program to ensure outreach is as effective as possible in reaching target audiences. This is needed as RI Stormwater Solutions has evolved since the early messages were tested. We've shifted from the early statewide media campaign to more source-specific information on pollution control actions and involvement activities. In addition, we completed a major reorganization of www.RIStormwaterSolutions.org and transitioned to a new website in May 2013. We believe the progress has been positive but formal evaluation will identify new audiences and provide us with blueprint for outreach over the term of this project.

We propose to conduct this "checkup" with the assistance of consulting professionals with expertise specifically in public outreach on stormwater topics. The project evaluation will provide recommendations for enhancing statewide public outreach. In addition, at least three representative areas of the state will be selected for analysis of target audience profiles as basis for developing source-specific education plans for TMLD implementation. These areas will be selected in cooperation with DOT and other MS4s. Results of this task will support development of education plans for TMDL implementation under Task A-7.2.

Tasks

- Organize a project advisory committee to participate in this element of the project. A key task will be to select areas of the state for analysis of target audience profiles.
- Develop a scope of work and subcontract with a professional consultant, with assistance from the SRICD as needed.
- Conduct evaluation considering the following:
 - Evaluate selected stormwater messages and outreach materials. This will address design of project materials and use of the Know Where it Goes logo vs. DOT, DEM and URI logos.
 - Develop audience profiles for MS4 target audiences across the state and in at least three additional selected areas using census data, market research databases, and other web resources. Results will be used to better identify target audiences to choose the most appropriate techniques to reach them.
 - Analyze Google keyword patterns and trends. Results will be used to identify opportunities to link stormwater messages to identified public attitudes and behaviors.
 - Determine appropriate balance of statewide education vs. targeted outreach by audience, location, and /or source of pollution.
 - Generally evaluate program strengths and weaknesses and provide recommendations
- Prepare a marketing plan for the RI stormwater solutions project, to include outcome measurement tools. In developing the marketing plan a variety of media and delivery methods will be considered, including, for example: social media, "earned" media such as news articles in traditional and electronic outlets, advertising and public relations, direct mail, email marketing and

search engine optimization. In addition, the plan will consider involvement activities currently organized by URI and partners, and build on these where appropriate.

Deliverables:

- Recommendations for updating RI Stormwater Solutions
- Target Audience Profiles for stormwater outreach statewide and in three selected areas of the state
- Marketing plan for RI Stormwater Solutions with outcome measurement tools
- Outreach evaluation at project midpoint and end

TASK B-2 Develop and Deliver Consistent Public Messages on Preventing Stormwater Pollution, Using a Variety of Media and Activities

Activities under this task will be guided by the results and recommendations of the marketing plan developed in Task B-1. However, we have already identified the need to update and refresh educational materials; other outreach tasks listed below are preliminary pending results of the marketing plan.

- Update public education materials, delivery methods, involvement strategies, and instructions for organizing stormwater events. This will include: correcting outdated information; ensuring all materials are clear and concise; upgrading photos and other graphics where needed; organizing and consolidating materials for ease of use and access; and updating delivery methods.
- Continue to promote public awareness on the need for stormwater management through “earned” media. This includes generating occasional press releases for both electronic and traditional media, and working with news outlets to support development of news articles.
- Strengthen coordination with agencies and organizations seeking to spread similar messages. These groups include, for example: the RI Water Resources Board (Slow the Flow water conservation campaign), RI HEALTH (Scoop the Poop beach protection campaign), Watershed Counts, and rain barrel displays and sales at public festivals by the RI Water Lady, EPA Soak up the Rain (rain gardens).
- Determine need for new outreach materials and involvement activities with input from the advisory group. Topics may include for example:
 - Additional information and/or incentive programs related to lawn and landscape care, rain barrel / gutter diversion incentive programs, rain garden maintenance factsheet and rain garden design booklet.
 - Rain Garden app for mobile devices developed in cooperation with UConn NEMO as part of a regional effort.
 - Promoting use of LID among various audiences, either voluntary, or to support adoption of local stormwater ordinances. Consider public displays and/or short instructional videos on residential LID practices.
 - Evaluate need to update more technical materials such as the URI Permeable Pavement booklet which describes types of permeable pavement materials, vendors, and costs.
 - New areas of outreach such as trash and litter control, urban stormwater management, and making educational materials available in Spanish and other languages.

- Continue to coordinate stormdrain marking events with Save the Bay and MS4s with the URI Feinstein Civic Engagement program as a service learning project with URI 101 students and faculty.
- Continue to provide advanced training for URI Master Gardeners on landscape care, using the EnviroScape® Watershed model, and rain garden stewardship. The URI Outreach Center conducts the training and coordinates with the Master Gardeners to schedule landscape care talks, set up watershed displays, and help maintain a public rain garden.

Task B-2.1 Update and maintain the project website

The central hub for public information is the project website, rstormwatersolutions.org. The main page is designed with straightforward information on simple steps individuals can take to prevent stormwater pollution. Additional resources include ideas for getting involved with community groups and step-by-step guides for organizing public involvement events, such as stormdrain marking, installing pet waste stations, building a community rain garden, and many more.

The website is also the primary resource center for MS4 stormwater managers. Towns with limited time and budgets can simply link to the website rather than creating their own stormwater page. All of the content is free and open to the public domain for use in education and training. The materials are organized specifically for use by stormwater managers and other groups wishing to educate people on stormwater pollution topics. A menu of choices is available, all in readily accessible, easy to use formats. For example, basic materials range from monthly bill inserts and cartoons with simple messages to factsheets and short newsletter articles. These are organized by pollution source topics and by time of year, considering when public audiences are most likely to be receptive to particular messages. In-depth strategies for reaching specific audiences and for organizing public involvement activities are also provided. Municipalities throughout Rhode Island have used this resource to help with their educational compliance component. In addition, URI has provided assistance to MS4s in customizing these materials and prepared sample education plans by request.

Under this task we will undertake the following activities:

- Maintain the Rlstormwatersolutions.org as the portal for all stormwater information for the general public and educational materials and methods for stormwater managers.
- Complete website update and reorganization. The website redesign has been in progress through 2012 and in May 2013 we transitioned to an entirely new website. Additional improvements are needed, in both navigation and editing to complete the reorganization. Results will improve access to and use of resources.
- Incorporate website recommendations resulting from the marketing plan, including strategies to direct more users to the site. A post card mailing to MS4s and other audiences may be used.
- Expand information available on LID stormwater management for public audiences.
- Maintain and update the LID inventory database, working in coordination with DEM to identify new sites. Publicize availability of the site to promote greater awareness of the types of innovative stormwater practices installed throughout the state as well as their appearance and function. The inventory also identifies contractors with experience in designing and installing LID practices.

- Evaluate and track web visits using Google Analytics

Task B.2-2 Promote youth education on stormwater pollution prevention

Youth Education was identified as a priority for public outreach based on input from MS4 stormwater managers in 2010. Although we initially investigated the feasibility of incorporating stormwater education into the state education curriculum, we found that not realistic given the lengthy process and multiple levels of approval required. Instead, we have organized a variety of resources to promote, and in some cases, conduct youth education on stormwater science and management. This includes: a stormwater education curriculum for various grade levels with grade span expectations; teacher training in using the EnviroScape® Model; making the model available for loan; and displaying the watershed model and other stormwater information at festivals and farmers markets. Our goal for this project is to continue to facilitate youth education through the following activities:

- Continue to make the stormwater education curriculum and related resources readily available to educators, stormwater managers, master gardeners, and other volunteers through the project website, and update as needed.
- Create a simple guide for educators and stormwater managers in establishing stormwater education programs in local schools through case studies of successful examples.
- Provide training to MS4s and educators on use of the EnviroScape® watershed model and other curriculum materials with support from the URI Outreach Center.
- Make the watershed model available for MS4s and educators to borrow and promote its use.
- Provide support to MS4s in establishing youth education programs in their communities by helping to plan new programs in cooperation with stormwater managers and local educators, recruiting trained Master Gardeners to assist, and helping to run the program when additional teachers are needed. This assistance is provided at local request and is based on staff availability.
- Investigate the feasibility of using the watershed model with youth groups at summer camps and festivals, in coordination with the RI Health Beach Monitoring Program. A student intern will be hired to manage this program.
- Investigate opportunities to promote stormwater-related service projects for organizations that require a service component, including for example, RI Envirothon, high school honor societies and science clubs, and Scouts.

Lead / Support: URI NEMO / URI Outreach Center

- Development and delivery of public messages on preventing stormwater pollution
- Master Gardeners trained annually and participate in stormwater education activities
- Website updated and maintained
- Record of web activity and usage
- Youth education curriculum updated and expanded
- Youth education delivered using the EnviroScape® watershed model

TASK B-3 Develop Source-Specific Outreach Materials and Delivery Methods for use by Stormwater Managers

The purpose of this task is to develop targeted educational materials for use by municipalities and other MS4s in implementing customized stormwater education programs based on needs in their area, considering different types of watersheds and receiving waters, and addressing the priority pollutants and the sources or land use activities causing the greatest impacts. In addition, this type of outreach targets key audiences - such as businesses, homeowners and developers, to promote the desired change in behavior.

The educational materials for use by stormwater managers are currently organized by pollution source and audience and are readily accessible in various formats. These include basic educational materials that are quick and easy to use, as well as education “strategies” which center on public involvement activities with supporting materials and instructions. The activities include organizing a stormdrain marking program, pet waste campaign, building a community rain garden, business outreach to promote good housekeeping, and starting or expanding a youth education program using the Enviroscape® watershed model. In addition, we have created sample education plans for stormwater managers by request. These resources have been widely used and/or adapted by many stormwater managers throughout the state, but most communities have very limited capacity to update or create new materials that address their specific need. This task will address this gap through the following tasks.

Our objectives are: 1) to continue making source-specific materials and delivery methods available to stormwater managers, 2) to create new materials on priority topics; and 3) to promote stormwater management success stories using real data. Activities under this task will be guided by the results and recommendations of the marketing plan developed in Task B-1. Input from DEM, DOT, and municipal officials responsible for implementing stormwater education and outreach programs will be obtained at all important decision points. In addition, URI will coordinate closely with other agencies and non-profit organizations involved in stormwater education and outreach to the public and municipal officials.

Tasks

- Update and organize educational materials in a format that is readily accessible for use by stormwater managers. The updates will consider existing communication methods MS4s use to keep residents informed on local issues, as well as new approaches. Promote use of the materials by watershed groups, professional organizations and others through their newsletters and other communication networks. In addition, investigate new methods for regularly communicating with MS4s and these groups to promote broader use of the materials.
- Develop new educational materials and outreach strategies on priority topics. The priority topic currently identified by DEM is building public support for storm water utility districts. Other topics may include for example, implementing TMDL education plans to address pollutants of concern and their sources, and promoting adoption of local stormwater ordinances to incorporate LID practices and /or maintenance procedures. Where appropriate, the education strategies will be designed for particular communities and/or watershed areas selected by DEM, with input from DOT and other MS4s. The education campaign may be customized as necessary to reach key audiences, such as elected and/or appointed municipal officials, homeowners, business owners, developers, contractors and others. Such materials will be provided in a readily accessible format for stormwater managers to use or modify as needed.

- Promote stormwater management success stories. In order to create awareness of the benefits of improved stormwater management and build support for greater use of such practices, URI will work with project partners to publicize success stories grounded in actual projects that generated quantifiable benefits in terms of water quality or volume control, flood control, aesthetic values, open space created, or other metric. URI responsibilities may include collecting data, drafting and/or reviewing stories, publicizing stories, and creating archive of stories at ristormwatersolutions.org. The scope of the stories, which might range from DPW management practices, ordinance updates, and use of LID practices for new construction or redevelopment, will be determined in cooperation with project partners.

Lead / Support: URI / DEM, DOT, MS4s

Deliverables:

- Source-specific materials updated and made readily available to MS4s and others.
- New materials and outreach methods developed for targeted audiences on priority topics, to include storm water utility districts.
- Promotion of stormwater success stories in cooperation with project partners.

TASK B-4 Citizen Water Quality Monitoring

The purpose of this task is to directly involve citizens in DOT/MS4 stormwater programs by monitoring local waters affected by runoff from state roads. The monitoring program can be designed to meet agency needs for baseline monitoring or specialized investigations to implement TMDL plans, as described below. Citizen volunteers could be trained by DOT, DEM, MS4 staff or URI Watershed Watch. Laboratory analysis may be conducted at either the RI Department of Health lab or the URI Watershed Watch certified lab. In all cases, the sampling protocol would be developed by the MS4 in cooperation with organization responsible for overseeing the volunteers and ensuring quality control.

Development of the sampling plan would consider the following types of monitoring.

- Baseline monitoring involves regular monitoring of a river, lake or embayment on a regular schedule from spring through fall to establish baseline data and to identify and trends over time, including any changes as stormwater improvements. The Watershed Watch program specializes in baseline monitoring. The regular schedule is weekly monitoring for temperature and clarity measured by secchi depth, and biweekly for all other parameters (dissolved oxygen and chlorophyll) using sampling kits. Tri-season collection is scheduled for other constituents including bacteria, nitrogen and phosphorus, which must be brought to the URI Watershed Watch lab for analysis. The Watershed Watch fee is \$600 / monitoring location each year, spring through fall.
- Illicit discharge detection. Monitors are trained to collect samples during dry weather, following sampling protocols and schedule developed by the MS4 in cooperation with Watershed Watch staff. Cost is per-sample basis.
- Wet weather monitoring. This requires a dedicated volunteer who is able to visit the sampling site(s) to capture the first flush and re-sample 24 hours later, and also bring samples to the URI

lab for analysis. This has been used to evaluate discharges from stormwater BPMs. Cost is per-sample basis.

URI Watershed Watch is a volunteer water quality monitoring program, led by trained scientists, which helps state and local governments, watershed groups and other organizations to recruit and train volunteers to become citizen scientists gathering quality assured monitoring data. The URI Watershed Watch, located at the URI Coastal Institute in Kingston, is a certified by RI Health for non-potable microbiology and inorganic chemistry. The program focuses on long-term monitoring of RI lakes, ponds, streams and coastal waters, with 250 locations monitored annually. URI provides training, equipment, supplies and analytical services tailored to organizational needs while meeting strict quality assurance and quality control guidelines in the field and laboratory. URI reports monitoring results to the sponsoring agency and provides assistance in interpreting the data. Summary results of baseline monitoring are made available on the Watershed Watch website. In addition, baseline monitoring is provided to DEM and used in preparation of the RIDEM Integrated Water Quality Assessment and Monitoring reports. Otherwise, the sponsor agency or organization is responsible for making the information available to others, including shoreline residents and watershed landowners to raise awareness of water quality conditions and to promote management action.

Tasks

- DOT will determine the need for and feasibility of citizen monitoring to support the DOT stormwater program in cooperation with MS4s sharing interconnected drainage systems. Factors to be considered include:
 - Recruiting volunteers and maintaining regular communication with volunteers .
 - Providing training, equipment, supplies and analytical services.
 - Ensuring quality control in sample collection, transport, and non-lab analysis.
 - Data interpretation and information on monitoring results.
- The agency or organization selected to train, equip and oversee citizen volunteers will assist in developing the monitoring plan, including parameters sampled, monitoring protocols, and schedule.
- The local sponsor, either DOT, other MS4, or watershed organization would be responsible providing a safe access point. A small boat is typically needed for baseline monitoring on ponds and rivers.

Lead / Support: URI Watershed Watch / DOT or other local sponsor

Deliverables:

- Four sampling locations monitored over four years, from spring through fall. Baseline monitoring is assumed for cost estimate but can be customized.
- Volunteer training, equipment, sampling protocols, supplies, analytical services, and monitoring results.

C. PROJECT MANAGEMENT AND COORDINATION

TASK C-1 Implementation Schedule and Reporting

- Revise the project plan as needed based on input from DOT and DEM and develop annual work plans. Seek input from project partners and MS4s on the project plan and/or annual work plans.
- Prepare monthly budget reports and progress summaries to be approved by RIDEM and RIDOT.
- Prepare annual reports on progress, accomplishments and planned activities.

Deliverables:

Annual work plans finalized with input from project partners and MS4s

Monthly budget reports and progress summaries

Annual progress reports

TASK C-2 Project Coordination and Communication

- Coordinate project activities with RIDEM, RIDOT and URI staff (project team), MS4s, and other partners.
- Maintain regular communication with MS4s and other target audiences, primarily through electronic newsletters and emails.
- Seek advisory review and input from project partners as needed.

Deliverables: Record of coordination meetings and electronic communication

TASK C-3 Evaluation and Assessment

- Assess local needs for training and technical support related to the approved project scope of work and/or annual work plans. Solicit input by MS4s and project partners through an electronic survey, telephone interview and/or review meeting.
- Reassess needs throughout the project, primarily through workshop evaluations, but using other methods where appropriate.
- Coordinate with DEM to establish annual MS4 measures of compliance and reporting requirements for minimum measures one and two. This information will be used to design the evaluation method and data collected.
- Evaluate project accomplishments and impacts by major tasks. Measures of success will be developed in annual work plans.

Deliverables:

Completed needs assessments with summary results

Progress evaluations consistent with permit compliance measures

RI DOT Storm Water Phase II Public Outreach and Education Project Deliverables and Budget 2014 - 2019

TASKS	Lead / Support	Deliverables	Grant Budget	Month ¹
A. STATE, MUNICIPAL AND PRIVATE SECTOR TRAINING AND TECHNICAL SUPPORT				
A-1 MS4 Workshops on Stormwater Manual Updates and Policies	DEM /URI	Annual workshop schedule, Coordination with MS4s, Workshop organization, Registration, meeting logistics and evaluations	52,246 (36,000 for consultant for training or DEM peer review)	1 - 58
A-2 Inspection and Maintenance Manual for Post Construction Stormwater Facilities A-2.1 Coordinate manual development with MS4s A-2.2 Collect and review existing resources A-2.3 Outline manual contents A-2.4 Prepare draft and final manual A-2.5 Distribute the final inspection and maintenance manual	URI / DEM	Draft and final manual	14,531	1 - 30
A-3 Outreach and Training in Use of the Revised RI Soil Erosion and Sediment Control Handbook A-3.1 Distribute the revised erosion and sediment control handbook A-3.2 Develop a training program in use of the Erosion and Sediment Control Handbook A-3.3 Develop training modules and conduct training A-3.4 Develop a Field Guide to Erosion and Sediment Control	SRICD / DEM, DOT, URI, Advisory Committee	Year 1: Final Handbook distributed with publicity; Training plan with outline of training modules and schedule and; Complete basic training modules for 3-4 types of programs by audience; Field guide if needed. Years 2-5: Annual training schedules; Minimum of 3 training programs completed annually, with new programs developed as needed.	81,646 (58,200 SRICD)	1 - 12; 13 - 58
A-4 Model Ordinances, Technical Support, and Training to Incorporate RI Stormwater Standards in Municipal Ordinances and Regulations A-4.1 Organize advisory committee and develop work plan A-4.2 Develop model language for local plans, ordinances and regulations A-4.3 Work with selected municipalities to update ordinances and regulations A-4.4 Develop MS4 workshop on using the model language to update ordinances	URI with consultant / DEM and MS4s	Model ordinance provisions with user guide on web, Signed agreements for tech. assistance and Ordinances updated in six communities, Educational materials and support at hearings, workshop module and training for MS4 staff and boards.	101,998 (47,000 Planning consultant)	13 - 58

TASKS	Lead / Support	Deliverables	Grant Budget	Month ¹
<p>A-5 Specialized DOT Staff Training</p> <ul style="list-style-type: none"> Installing, maintaining and inspection erosion and sediment controls during active construction; Contractor training in installing and maintaining RI stormwater treatment practices during active construction; Inspecting and maintaining new RI stormwater treatment practices during Post construction 	<p>SRICD / DOT, DEM, URI</p>	<p>Minimum of 1 training module and 1 workshop</p>	<p>49,186 (34,800 consultant)</p>	<p>1 - 58</p>
<p>A-6 MS4 Training in Developing a TMDL Implementation Plan</p> <p>A-6.1 Organize MS4 workshop series on implementing TMDL plans and assist with development of educational materials. Topics: TMDL Basics, Components of the Plan, Budget Planning.</p>	<p>DEM/URI</p>	<p>Workshop schedule, coordination with MS4s and speakers, workshop organization, registration, and other meeting logistics, and DEM TMDL guidance documents.</p>	<p>32,050</p>	<p>12 - 54</p>
<p>A-7 Technical Support to MS4s in Public Education and Involvement Methods</p> <p>A-7.1 Coordinate networking meetings with MS4s on implementing education programs in TMDL watersheds</p> <p>A-7.2 Work with MS4s to develop public outreach plans for selected TMDL watersheds</p> <p>A-7.3 Provide resources and guidance to MS4s in developing effective outreach programs</p>	<p>URI / DEM</p>	<p>Networking meetings organized with MS4s; Four education plans developed for selected TMDL watersheds, Coordination with DEM and MS4s on renewal of Permit minimum measures one and two.</p>	<p>67,025 (9,500 outreach design and media services)</p>	<p>15 - 58</p>
<p>A-8 MS4 Workshops on LID / Pollution Prevention Topics</p>			<p>19,807</p>	
<p>A-8.1 Workshops for non-traditional MS4s on LID standards and enforceable policies</p>	<p>URI /DEM</p>	<p>Workshop held based on MS4 interest</p>		<p>24 - 54</p>
<p>A-8.2 Pollution prevention training at municipal public works facilities</p>	<p>DOT</p>	<p>MS4 DPW training and facility inspection (based on support by DOT and T2 Center)</p>		<p>24 - 54</p>
<p>A-8.3 Rain garden training for landscapers, MS4s and volunteers</p>	<p>URI / DEM</p>	<p>Workshop with rain garden construction</p>		<p>13 - 36</p>

TASKS	Lead / Support	Deliverables	Grant Budget	Month ¹
A-8.4 Field training for MS4 staff in rain garden / bioretention planting and maintenance	URI / Co-sponsor TBD	Workshop training module customized for the BMP; Maintenance and inspection completed as part of training. Workshop held based on MS4 interest		24 - 54
A-8.5 Landscape care and turf management for MS4s <ul style="list-style-type: none"> Employee Training in Lawn and Landscape Care Basics. Natural Turf and Landscape Management for MS4 Grounds Managers. Basics and Onsite Composting topics 	URI / Co-sponsor TBD	Workshop held based on MS4 interest		24 - 54
B. MODEL STORMWATER EDUCATION AND INVOLVEMENT PROGRAM				
B-1 Evaluate Rhode Island Stormwater Solutions and Develop a Marketing Plan	URI with consultant / SRICD	Target audience profiles for statewide outreach and 3 selected areas of the state. Marketing plan with outcome measures.	42,795 (8,500 outreach design consultant)	1 - 12
B-2 Develop and Deliver Consistent Public Messages on Preventing Stormwater Pollution, Using a Variety of Media and Activities. B-2.1 Update and Maintain the Project Website B-2.2 Promote Youth Education on Stormwater Pollution Prevention	URI NEMO / URI Outreach Center/ SRICD	Development and delivery of public messages, website updated and maintained record of web activity and usage, Youth education curriculum updated and expanded, Master Gardeners trained annually and participate in stormwater education activities.	159,506 (9,500 outreach design consultant)	3 - 60
B-3 Develop Source-Specific Outreach Materials and Delivery Methods for use by Stormwater Managers	URI / DEM, DOT, MS4s	Source-specific materials updated and make readily available to MS4s and others, New materials developed for targeted audiences to support ordinance adoption; Materials created and delivered to help implement education plans in TMDL areas.	104,267 (14,500 outreach design consultant)	3 - 58

TASKS	Lead / Support	Deliverables	Grant Budget	Month1
B-4 Citizen Water Quality Monitoring	DOT or other MS4 Lab support by RI Health or URI Watershed Watch	Four sampling locations monitored biweekly spring-fall by MS4 staff or volunteers. Volunteer training, equipment, sampling protocols, supplies, analytical services, and monitoring results. Yrs. 2-5.	12,000	22 - 54
C. PROJECT MANAGEMENT AND COORDINATION				
C-1 Implementation Schedule and Reporting	URI / DEM, DOT	Annual work plans finalized with input from project partners and MS4s, Monthly budget reports and progress summaries, Annual progress reports	27,948 (2,000 SRICD)	1 - 60
C-2 Project Coordination and Communication	URI / DEM, DOT	Record of coordination meetings and electronic communication.	48,463 (2,000 SRICD)	1 - 60
C-3 Evaluation and Assessment	URI / DEM, DOT	Completed needs assessments with summary results, Progress evaluations consistent with permit compliance measures	36,533 (9,500 Outreach design consultant and 2,000 SRICD)	1 - 60
TOTAL REQUESTED			\$850,000	

¹ Month numbers are based on the grant period. The first month begins on the date of the grant agreement approval. Month two begins on same number day of the following calendar month. Sub-Task Deliverables are to be submitted to the Department within one month of completion.

PROJECT MANAGER:

Name: Lorraine Joubert, NEMO Program Director
Address: University of Rhode Island Cooperative Extension
Natural Resources Science
Coastal Institute in Kingston
1 Greenhouse Road
Kingston, RI 02881
Tel: 401-874-2138
Fax: 401-874-4561
Email: ljoubert@uri.edu

AUTHORIZED INSTITUTIONAL OFFICIAL

Name: James K. Petell, PhD
Address: Assoc VP
Division of Research and Economic Development
University of Rhode Island
75 Lower College Road
Kingston, RI 02881-1967
Tel: 401-874-4807
Fax: 401-874-7832

Entity Identification No. (EIN or FEIN): 223011455

DUNS No.: 144017188

Cage Code: 6G7Y5



To: Lorraine Joubert, NEMO program director
URI Cooperative Extension

From: J. Eric Scherer, Executive Director,
SRICD

A handwritten signature in black ink, appearing to read "J. Eric Scherer", is written over the printed name.

Date: 6/10/13

Re: Intent to Collaborate on Proposed Project

The Southern Rhode Island Conservation District (SRICD) is pleased to collaborate with the University of Rhode Island on the project entitled:

Storm Water Phase II Public Outreach, Education, Involvement and Participation

As a partner in this project, the SRICD will provide support in the following areas:

Task 1. Erosion and Sediment Control Handbook training program. The SRICD is responsible for developing a statewide training program in use of the revised RI Soil Erosion and Sediment Control Handbook. Duties will include handbook distribution with publicity, development of 3-4 complete training modules with all presentations, exercises and other training materials, supporting factsheets and guidance documents, and delivery of workshops based on schedule established in cooperation with DEM and DOT. In addition, the SRICD will coordinate with the Erosion and Sediment Control advisory committee in development of the training program and provide staff support for this group as needed.

Task 2. DEM Storm Water Manual training. The SRICD will provide support to URI and DEM in conducting training for DOT, municipalities, and others in use of the RI Stormwater Design and Installation Standards Manual. The SRICD will assist in developing training agendas, identify qualified trainers, provide general support with workshop logistics, and manage training subcontract(s). The SRICD will work closely with the URI T2 Center to ensure the training is coordinated with related programs offered by the T2 Center.

Task 3. Specialized DOT staff training. Under this task, the SRICD will coordinate with DOT, DEM, the URI T2 center, and other members of the advisory committee to develop training specifically for DOT staff and their consultants. Topics addressed will be selected by DOT considering the following:

- Installing, maintaining and inspecting erosion and sediment controls during active construction. On this topic, the SRICD will be responsible for developing the training module and conducting the workshop.
- Contractor training in installing and maintaining RI stormwater treatment practices during active construction; and inspecting and maintaining new RI stormwater treatment practices during post construction. On these topics, the SRICD will provide support in identifying trainers, developing agendas, providing general support for workshop logistics, and managing training subcontract(s).

At a minimum, one complete training module will be developed, and the workshop conducted at least once.

PO Box 1636, Building #50 East Farm Road,
URI East Farm Kingston, Rhode Island 02881
401-500-0422

Task 4. Model stormwater ordinances, technical support and training. The SRICD will provide assistance in development of model ordinances focusing on review of erosion and sediment control provisions and consistency with the revised RI Handbook. This will include review of ordinance updates and factsheets drafted by the planning consultant relating to erosion and sediment control standards, technical support to the project advisory committee, and management of the planning subcontract.

Task 5. Outreach design, evaluation, media services and implementation support. The SRICD will assist URI in implementing the public education and involvement component of this project through the following responsibilities: providing logistical support for advisory committee meetings including meeting space, agendas and minutes; identifying priority pollutants and control messages related to agricultural activities and erosion and sediment control; and helping to select areas of the state for target audience profiles based on priority pollution sources. In addition the SRICD will assist in developing a scope of work for professional services to evaluate and update the public education campaign, manage the subcontract, and assist in implementing public outreach through conservation district communication channels and outreach programs.

Southern Rhode Island Conservation District Budget

Project period: 2/1/14 –1/31/15, with the option for up to four, one-year renewals subject to available funding and other provisions of the URI/SRICD subcontract.

Total Amount: \$62,300

Southern RI Conservation District	Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5	Total
1. Erosion and Sediment Control Handbook training program and coordination with advisory committee. Task A-3.	23,000	17,500	8,700	7,500	7,500	64,200
2. DEM Storm Water manual training. Task A-1. (subcontract)	16,000	5,000	5,000	5,000	5,000	36,000
3. Specialized DOT Staff Training. Task A-5. (subcontract)	14,800	5,000	5,000	5,000	5,000	34,800
4. Model stormwater ordinances, technical support and training. (subcontract)	0	15,000	15,000	10,000	7,000	47,000
5. Outreach design, evaluation, media services and implementation support. Task B-1 & 2. (subcontract)	8,500	12,000	12,000	12,000	7,000	51,500
Total SRICD	62,300	54,500	45,700	39,500	31,500	233,500

cc: Clarkson Collins, Chair SRICD

Appendix II**BUDGET DETAIL**

Project Name: Storm Water Phase II Public Outreach, Education, Involvement and Participation

Estimated Personnel Expenses

Name	Title	Salary	% of Time	Salary Costs	Fringe	Total
L. Joubert	Res. Assoc. IV	\$76,248	42%	\$173,725	\$48,643	\$222,368
L. Philo	Res. Assoc. III	\$59,822	30%	\$105,540	\$42,926	\$148,466
L. Hollister	Comm. Spec.	\$24/hr	17%	\$32,844	\$2,513	\$35,357
KV Venturini	Outreach Ctr Mgt			\$15,000		\$15,000
E. Herron	WQ Specialist			\$9,600		\$9,600
J. Sullivan	Web Designer	\$40/hr	30 hrs /yr	\$2,434	\$186	\$2,620
Student	Intern	\$10/hr	20 hrs/wk /15 wks.	\$9,000	\$689	\$9,689
Totals				\$348,143	\$94,957	\$443,100

Budget Estimate

	Total Costs	Grant Requested	Nonfederal Match		
			State	Contractor	Other
Estimated Personnel Expenses (from above)	443,100	443,100			
Indirect Cost	128,300	128,300			
Contractual	248,300	248,300			
Supplies	22,900	22,900			
Equipment					
Travel	7,400	7,400			
Construction					
Other--Bid advertisement					
Total	850,000	850,000			

ADDENDIX III
State of Rhode Island and Providence Plantations Contract Offer
CONTRACTOR CERTIFICATION FORM

Contract Identification: RIDOT Contract ID#
Description Storm Water Phase II Public Outreach Program
Contractor Name: University of Rhode Island
Federal Tax ID #223011455
Address Line 1: Natural Resources Science
Coastal Institute in Kingston
1 Greenhouse Road
Address Line 2: Kingston, RI 02881
Telephone: 401-874-2138
Fax: 401-874-4561
email: ljoubert@uri.edu
Contact Person: Lorraine Joubert
Title of Contact: Research Associate
RI Foreign Corp # _____

NOTICE TO CONTRACTORS

This Certification Form shall be considered an integral part of each offer made by a contractor to enter into an agreement with the State of Rhode Island and Providence Plantations. As such, submittal of this Certification Form, signed by a duly authorized representative of the offer or attesting to the accuracy of the information provided and the offer extended, is a mandatory part of any contract award.

ALL CONTRACTS ARE SUBJECT TO THE FOLLOWING PROVISIONS AND PROCEDURES

Contractors are expected to read and comply with all requirements.
Failure to do so may be grounds for disqualification of the contract referenced above contained herein.

This contract is issued in accordance with the specific requirements described herein, and the State's Purchasing Laws and Regulations and other applicable State Laws. The Regulations, Terms and Conditions and basic information on How To Do Business with the State of Rhode Island are posted on the Rhode Island Vendor Information Program (RIVIP) Website (<http://www.purchasing.state.ri.us>).

Offers may not be withdrawn, except with the express permission of the State Purchasing Agent. All pricing will be considered to be firm and fixed unless otherwise indicated. After a contract award has been made, failure to meet all requirements may result in a determination of default.

Contractors are advised that this agreement will be considered without exception to be Public Records pursuant to Title 38 Chapter 2 of the Rhode Island General Laws, and will be released for inspection immediately upon request once an award has been made.

Provisions of State labor laws concerning payment of prevailing wage rates shall apply for contracts involving public works construction, alteration, or building repair work. Prevailing wage rates are posted in the information section of the RIVIP.

State Equal Employment Opportunity Compliance certificate and agreement procedures will apply to all awards for supplies or services valued at \$10,000 and more. Minority Business Enterprise policies and procedures, including subcontracting opportunities as described in Title 37 Chapter 14.1, of the Rhode Island General Laws, also apply.

In accordance with Title 7 Chapter 1.1-99 of the Rhode Island General Laws, Foreign corporations (a corporation established other than in Rhode Island) shall have the right to transact business in the State.

ALL CONTRACT AWARDS ARE SUBJECT TO THE FOLLOWING DISCLOSURES & CERTIFICATIONS

Contractors must respond to every disclosure statement a person authorized to enter into contracts
Must sign the offer and attest to the accuracy of all statements.

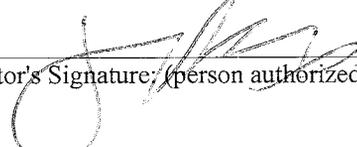
Indicate Yes (Y) or No (N):

Has your firm (or any principal) been subject to any of the following findings by the Federal Government, the State Of Rhode Island or any other jurisdiction? Suspension, Debarment, Indictment, Criminal Conviction. CIRCLE APPROPRIATE ITEM(S).

- N 1. Has your firm (or any principal) been fined more than \$5000 for a single violation by the Rhode Island Department of Environmental Management for violation of the Rhode Island Fresh Water Wetlands Act (RIGL 2-1-18 to 2-1-24)?
- Y 2. I/we certify that I/we will immediately disclose, in writing, to the Chief Purchasing Officer any potential conflict of interest which may occur during the course of the engagement authorized pursuant to this contract.
- Y 3. I/we acknowledge that, in accordance with Chapter 37-2-54(3) of the Rhode Island General Laws "no purchase or contract shall be binding on the State or any agency thereof unless approved by the Department of Administration or made under general regulations which the Chief Purchasing Officer may prescribe."
- Y 4. I/we certify that the above Contractor information is correct and complete.
- Y 5. I/we certify that I or my firm possesses all licenses required by Federal and State law and regulation as they pertain to the requirements of the solicitation and after made herein and shall maintain such required license(s) during the entire course of the contract resulting from the offer contained herein and should my/our license lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- Y 6. I/we certify that I/we will maintain required insurance during the entire course of the contract resulting from the offer contained herein and, should my/our insurance lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- Y 7. I/we certify that I/we understand that falsification of any information herein or failure to notify the Rhode Island State Purchasing Agent as certified herein may be grounds for suspension, debarment and/or prosecution for perjury.
- Y 8. I/we acknowledge that the provisions and procedures set forth in this form apply to this contract.
- Y 9. I/we acknowledge that I/we understand the State's Purchasing Regulations and General Terms and Conditions available at the Rhode Island Divisional Purchases Website (<http://www.purchasing.state.ri.us>) apply as the governing conditions for any contract or purchase order I may receive from the State of Rhode Island, including the offer contained herein.

IF YOU HAVE ANSWERED "YES" TO QUESTIONS #1 - 2 OR IF YOU ARE UNABLE TO CERTIFY YES TO ITEMS #3 - 10 OF THE FOREGOING, PROVIDE DETAILS/EXPLANATION BELOW AND/OR IN AN ATTACHED STATEMENT. INCOMPLETE CERTIFICATION FORMS SHALL BE GROUNDS FOR DISQUALIFICATION OF OFFER.

Signature below certifies (1) that the above statements and information are accurate, (2) that vendor understands and has complied with the requirements set forth herein and (3) that, where appropriate, a product is guaranteed to be free of Year 2000 date change problems and meets the Rhode Island Year 2000 Product Warranty set forth on the RIVIP Website (www.purchasing.state.ri.us).

Contractor's Signature:  (person authorized to enter into contracts; signature must be in ink) Date 5/9/14

Print Name and Title of Company official signing offer
James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization

**Appendix IV
Contract Management**

In accordance with Paragraph 8, the **DOT** appoints the representatives indicated below as the Contract Officers:

Primary

Name: Peter A. Healey, Chief Civil Engineer

Address: Rhode Island Department of Transportation
Two Capitol Hill
Providence, Rhode Island 02903

Phone: (401) 222-2023 ext. 4039

Fax: (401)

Email: peter.healey@dot.ri.gov

Secondary

Name:

Address:

Phone:

Fax:

Email:

In accordance with Paragraph 9, the **CONTRACTOR** appoints the representatives indicated below as the Project Officers:

Primary

Name: Lorraine Joubert
Coordinator, RI Nonpoint Education for Municipal Officials

Address: University of Rhode Island Cooperative Extension
Natural Resources Science
Coastal Institute in Kingston
1 Greenhouse Road
Kingston, RI 02881

Phone: 401-874-2138

Fax: 401-874-4561

Email: ljoubert@uri.edu

Secondary

Name:

Address:

Phone:

Fax:

Email:

In accordance with Paragraph 9, the **DEM** appoints the representatives indicated below as the Project Officers:

Primary

Name: Eric Beck, Supervising Sanitary Engineer

Address: Rhode Island Department of Environmental Management
Office of Water Resources
235 Promenade St.
Providence, RI 02908

Phone: (401) 222-4700 Ext. 7202

Fax: (401) 222-3564

Email: eric.beck@dem.ri.gov

Appendix V Payments and Reports Schedule

The **CONTRACTOR** agrees to provide (a) three single-sided, single-spaced copies of the final, **DOT**-approved report for reproduction purposes and (b) a digital version of the final document as well as any other documents, maps, images, outreach materials, or other publications resulting from **Appendix I-- Scope of Work**.

Multiple payments under this agreement will be made in the form of reimbursement upon submission of SubTask deliverables. See Deliverables /Budget Tables for Reimbursement Amount (Budget) and Deliverable Dates (Month) (Start Month is February 1, 2014). Payment is subject to DEM technical review for accuracy and compliance.

Appropriate documentation of billable expenses shall include payroll summary sheets, which identify the employee, the period (e.g., dates) worked and the expense incurred for that work. Non-personnel expenses shall be documented by canceled check whenever practicable and may be required at the option of the **DOT**. Documentation shall be consistent with requirements of OMB-A21 and OMB-A110.

Documentation of matching expenses in the amount of zero dollars (\$0) shall be presented with the request for reimbursement in order to receive payment. Failure to document match at the required rate may result in refusal, reduction or withholding of the requested payment.

Narrative, fiscal reports and other deliverables shall be sent to Contract Management Officer:

Peter A. Healey, Chief Civil Engineer
Rhode Island Department of Transportation
Two Capitol Hill
Providence, Rhode Island 02903

And the **DEM** Project Officer:

Eric Beck, Supervising Sanitary Engineer
Rhode Island Department of Environmental Management
Office of Water Resources
235 Promenade St.
Providence, RI 02908

The **DEM** Project Officer shall review all narrative reports for technical accuracy and to ensure compliance with the requirements of the **DOT**'s obligations pursuant to Storm Water Phase II Public Outreach and Education and aspects of Public Involvement and Participation management measures as discussed in **Appendix I--Scope of Work**. Once this review is complete the **DEM** Project Officer shall forward **DEM**'s findings to the Contract Officer. It shall be the obligation and purview of the Contract Officer to make final payment approval.

All reports are due in accordance with the **Appendix I--Scope of Work**. Failure to provide acceptable program and fiscal reports within the prescribed time frame may result in a delay of payment or the withholding of funds to the **CONTRACTOR**.

Appendix VI Fiscal Assurances

The **CONTRACTOR** agrees to segregate all receipts and disbursements pertaining to this Agreement from recipients and disbursements from all other sources, whether by separate accounts or by utilizing a fiscal code system.

The **CONTRACTOR** assures a system of adequate internal control will be implemented to ensure a separation of duties in all cash transactions.

The **CONTRACTOR** assures the existence of an audit trail, which includes: cancelled checks, voucher authorization, invoices, receiving reports, and time and distribution reports.

The **CONTRACTOR** assures a separate subsidiary ledger of equipment and property will be maintained.

The **CONTRACTOR** agrees any unexpended funds from this Agreement are to be returned to the **DOT** at the end of the time of performance unless the **DOT** gives written consent for their retention.

The following federal requirements shall apply as indicated:

- | | |
|-----------------------------|---|
| OMB circular a-21 | cost principles for educational institutions |
| OMB circular a-87 | cost principles applicable to grants and contracts with state and local governments |
| OMB circular a-102 | uniform administrative requirements for grants-to-aid state and local governments |
| OMB circular a-110 | uniform administrative requirements for grants and agreements with institutions of higher education, hospitals, and other nonprofit organizations |
| OMB circular a-122 | cost principles for nonprofit organizations |
| OMB circular a-21 and a-122 | prohibition against using federal or matching funds for lobbying or political activities |

If the **CONTRACTOR** expends federal awards during the **CONTRACTOR**'s particular fiscal year of \$300,000 or more, then OMB circular a-133, Audits of **STATE**, Local Governments and Nonprofit Organizations shall also apply.

This agreement may be funded in whole or in part with federal funds. If so, the cfda reference number is 66-419.

Appendix VII
Notice to Departmental Contractors Regarding
Responsibilities Under Title VI Of The Civil Rights Act Of 1964

Public and private agencies, organizations, institutions, and persons that receive federal financial assistance through the **STATE** are subject to the provisions of Title VI of the Civil Rights Act of 1964 and the implementing regulations of The United States that require that no person shall be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in its programs and activities on the Founds of race, color, or national origin. It is the responsibility of each service **CONTRACTOR** to acquaint itself with all of the provisions of the Title VI regulations. A copy of the regulations is available upon request at <http://www.maec.org/laws/title6.html>.

Appendix VIII
Notice to Departmental Contractors Regarding
Responsibilities Under Section 504 of the Rehabilitation Act Of 1973

Public and private agencies, organizations, institutions, and persons that receive federal financial assistance through the **STATE** are subject to the provisions of 504 of the Rehabilitation Act of 1973 and the implementing regulations of the which prohibits discrimination against handicapped persons in or other social services or benefits.

It is the responsibility of each service **CONTRACTOR** to acquaint itself with all of the provisions of the Section 504 regulations. A copy of the regulations is available upon request at <http://www.dol.gov/oasam/regs/statutes/sec504.htm>.

Appendix IX
Contractor Responsibilities Regarding
Fair Share for Procurement, Construction and Subcontracting

The **CONTRACTOR** agrees to comply with EPA's Program for Utilization of Small, Minority and Women's Business Enterprises in procurement under assistance agreements in accordance with the following, as appropriate.

- a. The recipient must ensure to the fullest extent possible that at least 10 percent of Federal funds for prime contracts or subcontracts for supplies, construction, equipment or services are made available to organizations owned or controlled by socially and economically disadvantaged individuals, women, and historically black colleges and universities.

The recipient agrees to include in its bid documents an MBE "Fair Share" percentage (7%) and a WBE "Fair Share" percentage (3%) which total at least 10 percent and to require all of its prime **CONTRACTORS** to include in their bid documents for subcontracts an MBE "Fair Share" percentage (7%) and a WBE "Fair Share" percentage (3%) which total at least 10 percent.

To evaluate compliance with the "Fair Share" policy, the recipient also agrees to comply with the six affirmative steps stated in 40 CFR 30.44(b), 31.36(e) or 35.6580(a), as appropriate.

The recipient agrees to submit EPA Form 5700-52A "MBE/WBE Utilization Under Federal Grants, Cooperative Agreements, and Interagency Agreements", to the Contract Office by October 15th of each year. Negative reports are also required.

- b. Minority business enterprises shall be included in all procurements and construction projects and shall be awarded a minimum of ten percent (10%) of the dollar value of the entire procurement or project in accordance with Minority Business Enterprise (RIGL 37-14.1) and the "Regulations Governing Participation by Minority Business Enterprises in **STATE** Funded and Directed Public Construction Projects, Construction Contracts and Procurement Contracts for Goods and Services," as amended.

Appendix X Drug-Free Workplace Policy

Drug use and abuse are subjects of immediate concern in our society. These problems are extremely complex and ones for which there are no easy solutions. From a safety perspective, the users of drugs may impair the well-being of all employees, the public at large, and result in damage to property. Therefore, it is the policy of the **STATE** that the unlawful manufacture, possession, or use of a controlled substance is prohibited in the workplace. Any employee (s) violating this policy will be subject to discipline up to and including termination. An employee may also be discharged or otherwise disciplined for a conviction involving illicit drug behavior, regardless of whether the employee (s) conduct was detected within employment hours or whether his/her actions were connected in any way with his or her employment. The specifics of this policy are as follows:

Any unauthorized employee who gives or in any way transfers a controlled substance to another person or sells or manufactures a controlled substance while on duty, regardless of whether the employee is on or off the premises of the employer will be subject to discipline up to and including termination.

The term "controlled substance" means any drugs listed in 21 USC, section 812 and other federal regulations. Generally, all illegal drugs and substances are included, such as marijuana, heroin, morphine, cocaine, codeine or opium additives, LSD, DMT, STP, amphetamines, methamphetamines, and barbiturates.

Each employee is required by law to inform the agency within five (5) days after he/she is convicted for violation of any federal or **STATE** criminal drug statute. A conviction means a finding of guilt (including a plea of *nolo contendere*) or the imposition of a sentence by a judge or jury in any federal or **STATE** court.

The employer (**CONTRACTOR** or subcontractor) will be responsible for reporting conviction(s) to the appropriate federal granting source within ten (10) days after receiving notice from the employee or otherwise receives actual notice of such conviction(s). All convictions must be reported in writing to the Office of Personnel Administration (OPA) time frame.

If an employee is convicted of violating any criminal drug statute while on duty, he/she will be subject to discipline up to and including termination. Conviction (s) while off duty may result in discipline or discharge.

The **STATE** encourages any employee with a substance problem to seek assistance from the Rhode Island Employee Assistance Program (RIEAP).

The law requires all employees to abide by this policy.

Appendix XI
Drug-Free Workplace Policy Contractor Certificate of Compliance

I, James K Petell, a **CONTRACTOR** doing business with the **STATE**, hereby acknowledge that I have received a copy of the **STATE** policy regarding the maintenance of a drug-free workplace. I have been informed that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance (to include but not limited to such drugs as marijuana, heroin, cocaine, pep, and crack, and may also include legal drugs which may be prescribed by a licensed physician if they are abused), is prohibited on **STATE** premises or while conducting **STATE** business. I acknowledge that my employees must report for work in a fit condition to perform their duties.

As a condition for contracting with the **STATE**, as a result of the federal omnibus drug act, I will require my employees to abide by the **STATE**'s policy. Further, I recognize that any violation of this policy may result in termination of the contract.

 **CONTRACTOR's Authorized Agent/Signature** 5/9/14
Date

James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization

**Appendix XII
Drug-Free Workplace Policy
Subcontractor Compliance**

I, James K Petell, a **CONTRACTOR** doing business with the **STATE**, hereby certify that all approved subcontractors performing services under the terms of this agreement will have executed written contracts with this agency, and all contracts will be maintained on file and produced upon request. All contracts must contain language identical to the provisions of this agreement as follows:



CONTRACTOR's Authorized Agent/Signature

5/9/14

Date

**James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization**

Appendix XIII
Contractor Certificate of Compliance
Regarding Environmental Tobacco Smoke

Public Law 103-227, Part C - Environmental Tobacco Smoke, Also Known As The Pro-Children Act of 1994 (**act**), requires that smoking not be permitted in any portion of any indoor facility owned or leased or contracted for by an entity and used routinely or regularly for the provision of health, day care, education or library services to children under the age of 18, if the services are funded by federal programs either directly or through state or local governments, by federal grant, contract, loan, or loan guarantee. The law does not apply to children's services provided in private residences, facilities funded solely by Medicare or Medicaid funds, and portions of facilities used for inpatient drug or alcohol treatment. Failure to comply with the provisions of the law may result in the imposition of a civil monetary penalty of up to \$1000 per day and/or the imposition of an administrative compliance order on the responsible entity.

Signature below certifies that **CONTRACTOR** will comply with the requirements of the **act**.

CONTRACTOR's Authorized Agent/Signature



5/9/14

Date

James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization

**Appendix XIV
Contractor Certificate of Compliance
Regarding Hotel and Motel Safety**

CONTRACTOR certifies that all requisitions for conference, meeting, convention, or training space funding in whole or in part with federal funds complies with the Hotel and Motel Fire Safety Act of 1990.

If a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the federal government, the **DOT** may terminate this Agreement for cause of default.

CONTRACTOR's Authorized Agent/Signature

5/9/14

Date

**James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization**

Appendix XV
Certification Regarding Debarment, Suspension, And Other Responsibility Matters -
Primary Covered Transactions

CONTRACTOR certifies to the best of its knowledge and belief, that it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state or local) transaction or contract under public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- c. Are not presently indicted or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any offenses enumerated in Item b of this certification; and
- d. Have not within a three-year period preceding this application/proposal had one or more public transactions (federal, state or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statement in this certification, such prospective participant shall attach an explanation to this proposal.



CONTRACTOR's Authorized Agent/Signature 5/9/14
Date

James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization

TASKS	Lead / Support	Deliverables	Grant Budget	Month ¹
<p>A-5 Specialized DOT Staff Training</p> <ul style="list-style-type: none"> • Installing, maintaining and inspection erosion and sediment controls during active construction; • Contractor training in installing and maintaining RI stormwater treatment practices during active construction; • Inspecting and maintaining new RI stormwater treatment practices during Post construction 	<p>SRICD / DOT, DEM, URI</p>	<p>Minimum of 1 training module and 1 workshop</p>	<p>49,186 (34,800 consultant)</p>	<p>1 - 58</p>
<p>A-6 MS4 Training in Developing a TMDL Implementation Plan</p> <p>A-6.1 Organize MS4 workshop series on implementing TMDL plans and assist with development of educational materials. Topics: TMDL Basics, Components of the Plan, Budget Planning.</p>	<p>DEM/URI</p>	<p>Workshop schedule, coordination with MS4s and speakers, workshop organization, registration, and other meeting logistics, and DEM TMDL guidance documents.</p>	<p>32,050</p>	<p>12 - 54</p>
<p>A-7 Technical Support to MS4s in Public Education and Involvement Methods</p> <p>A-7.1 Coordinate networking meetings with MS4s on implementing education programs in TMDL watersheds</p> <p>A-7.2 Work with MS4s to develop public outreach plans for selected TMDL watersheds</p> <p>A-7.3 Provide resources and guidance to MS4s in developing effective outreach programs</p>	<p>URI / DEM</p>	<p>Networking meetings organized with MS4s; Four education plans developed for selected TMDL watersheds, Coordination with DEM and MS4s on renewal of Permit minimum measures one and two.</p>	<p>67,025 (9,500 outreach design and media services)</p>	<p>15 - 58</p>
<p>A-8 MS4 Workshops on LID / Pollution Prevention Topics</p>			<p>19,807</p>	
<p>A-8.1 Workshops for non-traditional MS4s on LID standards and enforceable policies</p>	<p>URI / DEM</p>	<p>Workshop held based on MS4 interest</p>		<p>24 - 54</p>
<p>A-8.2 Pollution prevention training at municipal public works facilities</p>	<p>DOT</p>	<p>MS4 DPW training and facility inspection (based on support by DOT and T2 Center)</p>		<p>24 - 54</p>
<p>A-8.3 Rain garden training for landscapers, MS4s and volunteers</p>	<p>URI / DEM</p>	<p>Workshop with rain garden construction</p>		<p>13 - 36</p>

TASKS	Lead / Support	Deliverables	Grant Budget	Month ¹
A-8.4 Field training for MS4 staff in rain garden / bioretention planting and maintenance	URI / Co-sponsor TBD	Workshop training module customized for the BMP; Maintenance and inspection completed as part of training. Workshop held based on MS4 interest		24 - 54
A-8.5 Landscape care and turf management for MS4s <ul style="list-style-type: none"> Employee Training in Lawn and Landscape Care Basics. Natural Turf and Landscape Management for MS4 Grounds Managers. Basics and Onsite Composting topics 	URI / Co-sponsor TBD	Workshop held based on MS4 interest		24 - 54
B. MODEL STORMWATER EDUCATION AND INVOLVEMENT PROGRAM				
B-1 Evaluate Rhode Island Stormwater Solutions and Develop a Marketing Plan	URI with consultant / SRICD	Target audience profiles for statewide outreach and 3 selected areas of the state, Marketing plan with outcome measures.	42,795 (8,500 outreach design consultant)	1 - 12
B-2 Develop and Deliver Consistent Public Messages on Preventing Stormwater Pollution, Using a Variety of Media and Activities. B-2.1 Update and Maintain the Project Website B-2.2 Promote Youth Education on Stormwater Pollution Prevention	URI NEMO / URI Outreach Center/ SRICD	Development and delivery of public messages, website updated and maintained record of web activity and usage, Youth education curriculum updated and expanded, Master Gardeners trained annually and participate in stormwater education activities.	159,506 (9,500 outreach design consultant)	3 - 60
B-3 Develop Source-Specific Outreach Materials and Delivery Methods for use by Stormwater Managers	URI / DEM, DOT, MS4s	Source-specific materials updated and make readily available to MS4s and others, New materials developed for targeted audiences to support ordinance adoption; Materials created and delivered to help implement education plans in TMDL areas.	104,267 (14,500 outreach design consultant)	3 - 58

TASKS	Lead / Support	Deliverables	Grant Budget	Month1
B-4 Citizen Water Quality Monitoring	DOT or other MS4 Lab support by RI Health or URI Watershed Watch	Four sampling locations monitored biweekly spring-fall by MS4 staff or volunteers. Volunteer training, equipment, sampling protocols, supplies, analytical services, and monitoring results. Yrs. 2-5.	12,000	22 - 54
C. PROJECT MANAGEMENT AND COORDINATION				
C-1 Implementation Schedule and Reporting	URI / DEM, DOT	Annual work plans finalized with input from project partners and MS4s, Monthly budget reports and progress summaries, Annual progress reports	27,948 (2,000 SRICD)	1 - 60
C-2 Project Coordination and Communication	URI / DEM, DOT	Record of coordination meetings and electronic communication.	48,463 (2,000 SRICD)	1 - 60
C-3 Evaluation and Assessment	URI / DEM, DOT	Completed needs assessments with summary results, Progress evaluations consistent with permit compliance measures	36,533 (9,500 Outreach design consultant and 2,000 SRICD)	1 - 60
TOTAL REQUESTED			\$850,000	

¹ Month numbers are based on the grant period. The first month begins on the date of the grant agreement approval. Month two begins on same number day of the following calendar month. Sub-Task Deliverables are to be submitted to the Department within one month of completion.

PROJECT MANAGER:

Name: Lorraine Joubert, NEMO Program Director
Address: University of Rhode Island Cooperative Extension
Natural Resources Science
Coastal Institute in Kingston
1 Greenhouse Road
Kingston, RI 02881
Tel: 401-874-2138
Fax: 401-874-4561
Email: ljoubert@uri.edu

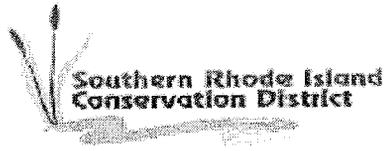
AUTHORIZED INSTITUTIONAL OFFICIAL

Name: James K. Petell, PhD
Address: Assoc VP
Division of Research and Economic Development
University of Rhode Island
75 Lower College Road
Kingston, RI 02881-1967
Tel: 401-874-4807
Fax: 401-874-7832

Entity Identification No. (EIN or FEIN): 223011455

DUNS No.: 144017188

Cage Code: 6G7Y5



To: Lorraine Joubert, NEMO program director
URI Cooperative Extension

From: J. Eric Scherer, Executive Director,
SRICD

A handwritten signature in black ink, appearing to read "J. Eric Scherer", written over a horizontal line.

Date: 6/10/13

Re: Intent to Collaborate on Proposed Project

The Southern Rhode Island Conservation District (SRICD) is pleased to collaborate with the University of Rhode Island on the project entitled:

Storm Water Phase II Public Outreach, Education, Involvement and Participation

As a partner in this project, the SRICD will provide support in the following areas:

Task 1. Erosion and Sediment Control Handbook training program. The SRICD is responsible for developing a statewide training program in use of the revised RI Soil Erosion and Sediment Control Handbook. Duties will include handbook distribution with publicity, development of 3-4 complete training modules with all presentations, exercises and other training materials, supporting factsheets and guidance documents, and delivery of workshops based on schedule established in cooperation with DEM and DOT. In addition, the SRICD will coordinate with the Erosion and Sediment Control advisory committee in development of the training program and provide staff support for this group as needed.

Task 2. DEM Storm Water Manual training. The SRICD will provide support to URI and DEM in conducting training for DOT, municipalities, and others in use of the RI Stormwater Design and Installation Standards Manual. The SRICD will assist in developing training agendas, identify qualified trainers, provide general support with workshop logistics, and manage training subcontract(s). The SRICD will work closely with the URI T2 Center to ensure the training is coordinated with related programs offered by the T2 Center.

Task 3. Specialized DOT staff training. Under this task, the SRICD will coordinate with DOT, DEM, the URI T2 center, and other members of the advisory committee to develop training specifically for DOT staff and their consultants. Topics addressed will be selected by DOT considering the following:

- Installing, maintaining and inspecting erosion and sediment controls during active construction. On this topic, the SRICD will be responsible for developing the training module and conducting the workshop.
- Contractor training in installing and maintaining RI stormwater treatment practices during active construction; and inspecting and maintaining new RI stormwater treatment practices during post construction. On these topics, the SRICD will provide support in identifying trainers, developing agendas, providing general support for workshop logistics, and managing training subcontract(s).

At a minimum, one complete training module will be developed, and the workshop conducted at least once.

PO Box 1686, Building #50 East Farm Road,
URI East Farm Kingston, Rhode Island 02881
401-500-0422

Task 4. Model stormwater ordinances, technical support and training. The SRICD will provide assistance in development of model ordinances focusing on review of erosion and sediment control provisions and consistency with the revised RI Handbook. This will include review of ordinance updates and factsheets drafted by the planning consultant relating to erosion and sediment control standards, technical support to the project advisory committee, and management of the planning subcontract.

Task 5. Outreach design, evaluation, media services and implementation support. The SRICD will assist URI in implementing the public education and involvement component of this project through the following responsibilities: providing logistical support for advisory committee meetings including meeting space, agendas and minutes; identifying priority pollutants and control messages related to agricultural activities and erosion and sediment control; and helping to select areas of the state for target audience profiles based on priority pollution sources. In addition the SRICD will assist in developing a scope of work for professional services to evaluate and update the public education campaign, manage the subcontract, and assist in implementing public outreach through conservation district communication channels and outreach programs.

Southern Rhode Island Conservation District Budget

Project period: 2/1/14 –1/31/15, with the option for up to four, one-year renewals subject to available funding and other provisions of the URI/SRICD subcontract.

Total Amount: \$62,300

Southern RI Conservation District	Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5	Total
1. Erosion and Sediment Control Handbook training program and coordination with advisory committee. Task A-3.	23,000	17,500	8,700	7,500	7,500	64,200
2. DEM Storm Water manual training. Task A-1. (subcontract)	16,000	5,000	5,000	5,000	5,000	36,000
3. Specialized DOT Staff Training. Task A-5. (subcontract)	14,800	5,000	5,000	5,000	5,000	34,800
4. Model stormwater ordinances, technical support and training. (subcontract)	0	15,000	15,000	10,000	7,000	47,000
5. Outreach design, evaluation, media services and implementation support. Task B-1 & 2. (subcontract)	8,500	12,000	12,000	12,000	7,000	51,500
Total SRICD	62,300	54,500	45,700	39,500	31,500	233,500

cc: Clarkson Collins, Chair SRICD

Appendix II**BUDGET DETAIL**

Project Name: Storm Water Phase II Public Outreach, Education, Involvement and Participation

Estimated Personnel Expenses

Name	Title	Salary	% of Time	Salary Costs	Fringe	Total
L. Joubert	Res. Assoc. IV	\$76,248	42%	\$173,725	\$48,643	\$222,368
L. Philo	Res. Assoc. III	\$59,822	30%	\$105,540	\$42,926	\$148,466
L. Hollister	Comm. Spec.	\$24/hr	17%	\$32,844	\$2,513	\$35,357
KV Venturini	Outreach Ctr Mgt			\$15,000		\$15,000
E. Herron	WQ Specialist			\$9,600		\$9,600
J. Sullivan	Web Designer	\$40/hr	30 hrs /yr	\$2,434	\$186	\$2,620
Student	Intern	\$10/hr	20 hrs/wk /15 wks.	\$9,000	\$689	\$9,689
Totals				\$348,143	\$94,957	\$443,100

Budget Estimate

	Total Costs	Grant Requested	Nonfederal Match		
			State	Contractor	Other
Estimated Personnel Expenses (from above)	443,100	443,100			
Indirect Cost	128,300	128,300			
Contractual	248,300	248,300			
Supplies	22,900	22,900			
Equipment					
Travel	7,400	7,400			
Construction					
Other--Bid advertisement					
Total	850,000	850,000			

ADDENDIX III
State of Rhode Island and Providence Plantations Contract Offer
CONTRACTOR CERTIFICATION FORM

Contract Identification: RIDOT Contract ID#
Description Storm Water Phase II Public Outreach Program
Contractor Name: University of Rhode Island
Federal Tax ID #223011455
Address Line 1: Natural Resources Science
Coastal Institute in Kingston
1 Greenhouse Road
Address Line 2: Kingston, RI 02881
Telephone: 401-874-2138
Fax: 401-874-4561
email: ljoubert@uri.edu
Contact Person: Lorraine Joubert
Title of Contact: Research Associate
RI Foreign Corp # _____

NOTICE TO CONTRACTORS

This Certification Form shall be considered an integral part of each offer made by a contractor to enter into an agreement with the State of Rhode Island and Providence Plantations. As such, submittal of this Certification Form, signed by a duly authorized representative of the offer or attesting to the accuracy of the information provided and the offer extended, is a mandatory part of any contract award.

ALL CONTRACTS ARE SUBJECT TO THE FOLLOWING PROVISIONS AND PROCEDURES

Contractors are expected to read and comply with all requirements.
Failure to do so may be grounds for disqualification of the contract referenced above contained herein.

This contract is issued in accordance with the specific requirements described herein, and the State's Purchasing Laws and Regulations and other applicable State Laws. The Regulations, Terms and Conditions and basic information on How To Do Business with the State of Rhode Island are posted on the Rhode Island Vendor Information Program (RIVIP) Website (<http://www.purchasing.state.ri.us>).

Offers may not be withdrawn, except with the express permission of the State Purchasing Agent. All pricing will be considered to be firm and fixed unless otherwise indicated. After a contract award has been made, failure to meet all requirements may result in a determination of default.

Contractors are advised that this agreement will be considered without exception to be Public Records pursuant to Title 38 Chapter 2 of the Rhode Island General Laws, and will be released for inspection immediately upon request once an award has been made.

Provisions of State labor laws concerning payment of prevailing wage rates shall apply for contracts involving public works construction, alteration, or building repair work. Prevailing wage rates are posted in the information section of the RIVIP.

State Equal Employment Opportunity Compliance certificate and agreement procedures will apply to all awards for supplies or services valued at \$10,000 and more. Minority Business Enterprise policies and procedures, including subcontracting opportunities as described in Title 37 Chapter 14.1, of the Rhode Island General Laws, also apply.

In accordance with Title 7 Chapter 1.1-99 of the Rhode Island General Laws, Foreign corporations (a corporation established other than in Rhode Island) shall have the right to transact business in the State.

ALL CONTRACT AWARDS ARE SUBJECT TO THE FOLLOWING DISCLOSURES & CERTIFICATIONS

Contractors must respond to every disclosure statement a person authorized to enter into contracts

Must sign the offer and attest to the accuracy of all statements.

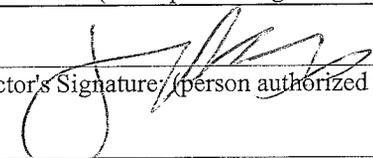
Indicate Yes (Y) or No (N):

Has your firm (or any principal) been subject to any of the following findings by the Federal Government, the State Of Rhode Island or any other jurisdiction? Suspension, Debarment, Indictment, Criminal Conviction. CIRCLE APPROPRIATE ITEM(S).

- N 1. Has your firm (or any principal) been fined more than \$5000 for a single violation by the Rhode Island Department of Environmental Management for violation of the Rhode Island Fresh Water Wetlands Act (RIGL 2-1-18 to 2-1-24)?
- Y 2. I/we certify that I/we will immediately disclose, in writing, to the Chief Purchasing Officer any potential conflict of interest which may occur during the course of the engagement authorized pursuant to this contract.
- Y 3. I/we acknowledge that, in accordance with Chapter 37-2-54(3) of the Rhode Island General Laws "no purchase or contract shall be binding on the State or any agency thereof unless approved by the Department of Administration or made under general regulations which the Chief Purchasing Officer may prescribe."
- Y 4. I/we certify that the above Contractor information is correct and complete.
- Y 5. I/we certify that I or my firm possesses all licenses required by Federal and State law and regulation as they pertain to the requirements of the solicitation and after made herein and shall maintain such required license(s) during the entire course of the contract resulting from the offer contained herein and should my/our license lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- Y 6. I/we certify that I/we will maintain required insurance during the entire course of the contract resulting from the offer contained herein and, should my/our insurance lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- Y 7. I/we certify that I/we understand that falsification of any information herein or failure to notify the Rhode Island State Purchasing Agent as certified herein may be grounds for suspension, debarment and/or prosecution for perjury.
- Y 8. I/we acknowledge that the provisions and procedures set forth in this form apply to this contract.
- Y 9. I/we acknowledge that I/we understand the State's Purchasing Regulations and General Terms and Conditions available at the Rhode Island Divisional Purchases Website (<http://www.purchasing.state.ri.us>) apply as the governing conditions for any contract or purchase order I may receive from the State of Rhode Island, including the offer contained herein.

IF YOU HAVE ANSWERED "YES" TO QUESTIONS #1 - 2 OR IF YOU ARE UNABLE TO CERTIFY YES TO ITEMS #3 - 10 OF THE FOREGOING, PROVIDE DETAILS/EXPLANATION BELOW AND/OR IN AN ATTACHED STATEMENT. INCOMPLETE CERTIFICATION FORMS SHALL BE GROUNDS FOR DISQUALIFICATION OF OFFER.

Signature below certifies (1) that the above statements and information are accurate, (2) that vendor understands and has complied with the requirements set forth herein and (3) that, where appropriate, a product is guaranteed to be free of Year 2000 date change problems and meets the Rhode Island Year 2000 Product Warranty set forth on the RIVIP Website (www.purchasing.state.ri.us).

Contractor's Signature:  (person authorized to enter into contracts; signature must be in ink) Date 5/9/14

Print Name and Title of Company official signing offer
James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization

**Appendix IV
Contract Management**

In accordance with Paragraph 8, the **DOT** appoints the representatives indicated below as the Contract Officers:

Primary

Name: Peter A. Healey, Chief Civil Engineer

Address: Rhode Island Department of Transportation
Two Capitol Hill
Providence, Rhode Island 02903

Phone: (401) 222-2023 ext. 4039

Fax: (401)

Email: peter.healey@dot.ri.gov

Secondary

Name:

Address:

Phone:

Fax:

Email:

In accordance with Paragraph 9, the **CONTRACTOR** appoints the representatives indicated below as the Project Officers:

Primary

Name: Lorraine Joubert
Coordinator, RI Nonpoint Education for Municipal Officials

Address: University of Rhode Island Cooperative Extension
Natural Resources Science
Coastal Institute in Kingston
1 Greenhouse Road
Kingston, RI 02881

Phone: 401-874-2138

Fax: 401-874-4561

Email: ljoubert@uri.edu

Secondary

Name:

Address:

Phone:

Fax:

Email:

In accordance with Paragraph 9, the **DEM** appoints the representatives indicated below as the Project Officers:

Primary

Name: Eric Beck, Supervising Sanitary Engineer

Address: Rhode Island Department of Environmental Management
Office of Water Resources
235 Promenade St.
Providence, RI 02908

Phone: (401) 222-4700 Ext. 7202

Fax: (401) 222-3564

Email: eric.beck@dem.ri.gov

Appendix V Payments and Reports Schedule

The **CONTRACTOR** agrees to provide (a) three single-sided, single-spaced copies of the final, **DOT**-approved report for reproduction purposes and (b) a digital version of the final document as well as any other documents, maps, images, outreach materials, or other publications resulting from **Appendix I-- Scope of Work**.

Multiple payments under this agreement will be made in the form of reimbursement upon submission of SubTask deliverables. See Deliverables /Budget Tables for Reimbursement Amount (Budget) and Deliverable Dates (Month) (Start Month is February 1, 2014). Payment is subject to DEM technical review for accuracy and compliance.

Appropriate documentation of billable expenses shall include payroll summary sheets, which identify the employee, the period (e.g., dates) worked and the expense incurred for that work. Non-personnel expenses shall be documented by canceled check whenever practicable and may be required at the option of the **DOT**. Documentation shall be consistent with requirements of OMB-A21 and OMB-A110.

Documentation of matching expenses in the amount of zero dollars (\$0) shall be presented with the request for reimbursement in order to receive payment. Failure to document match at the required rate may result in refusal, reduction or withholding of the requested payment.

Narrative, fiscal reports and other deliverables shall be sent to Contract Management Officer:

Peter A. Healey, Chief Civil Engineer
Rhode Island Department of Transportation
Two Capitol Hill
Providence, Rhode Island 02903

And the **DEM** Project Officer:

Eric Beck, Supervising Sanitary Engineer
Rhode Island Department of Environmental Management
Office of Water Resources
235 Promenade St.
Providence, RI 02908

The **DEM** Project Officer shall review all narrative reports for technical accuracy and to ensure compliance with the requirements of the **DOT**'s obligations pursuant to Storm Water Phase II Public Outreach and Education and aspects of Public Involvement and Participation management measures as discussed in **Appendix I--Scope of Work**. Once this review is complete the **DEM** Project Officer shall forward **DEM**'s findings to the Contract Officer. It shall be the obligation and purview of the Contract Officer to make final payment approval.

All reports are due in accordance with the **Appendix I--Scope of Work**. Failure to provide acceptable program and fiscal reports within the prescribed time frame may result in a delay of payment or the withholding of funds to the **CONTRACTOR**.

Appendix VI
Fiscal Assurances

The **CONTRACTOR** agrees to segregate all receipts and disbursements pertaining to this Agreement from recipients and disbursements from all other sources, whether by separate accounts or by utilizing a fiscal code system.

The **CONTRACTOR** assures a system of adequate internal control will be implemented to ensure a separation of duties in all cash transactions.

The **CONTRACTOR** assures the existence of an audit trail, which includes: cancelled checks, voucher authorization, invoices, receiving reports, and time and distribution reports.

The **CONTRACTOR** assures a separate subsidiary ledger of equipment and property will be maintained.

The **CONTRACTOR** agrees any unexpended funds from this Agreement are to be returned to the **DOT** at the end of the time of performance unless the **DOT** gives written consent for their retention.

The following federal requirements shall apply as indicated:

- OMB circular a-21 cost principles for educational institutions
- OMB circular a-87 cost principles applicable to grants and contracts with state and local governments
- OMB circular a-102 uniform administrative requirements for grants-to-aid state and local governments
- OMB circular a-110 uniform administrative requirements for grants and agreements with institutions of higher education, hospitals, and other nonprofit organizations
- OMB circular a-122 cost principles for nonprofit organizations
- OMB circular a-21 and a-122 prohibition against using federal or matching funds for lobbying or political activities

If the **CONTRACTOR** expends federal awards during the **CONTRACTOR**'s particular fiscal year of \$300,000 or more, then OMB circular a-133, Audits of **STATE**, Local Governments and Nonprofit Organizations shall also apply.

This agreement may be funded in whole or in part with federal funds. If so, the cfda reference number is 66-419.

Appendix VII
Notice to Departmental Contractors Regarding
Responsibilities Under Title VI Of The Civil Rights Act Of 1964

Public and private agencies, organizations, institutions, and persons that receive federal financial assistance through the **STATE** are subject to the provisions of Title VI of the Civil Rights Act of 1964 and the implementing regulations of The United States that require that no person shall be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in its programs and activities on the Founds of race, color, or national origin. It is the responsibility of each service **CONTRACTOR** to acquaint itself with all of the provisions of the Title VI regulations. A copy of the regulations is available upon request at <http://www.maec.org/laws/title6.html>.

Appendix VIII
Notice to Departmental Contractors Regarding
Responsibilities Under Section 504 of the Rehabilitation Act Of 1973

Public and private agencies, organizations, institutions, and persons that receive federal financial assistance through the **STATE** are subject to the provisions of 504 of the Rehabilitation Act of 1973 and the implementing regulations of the which prohibits discrimination against handicapped persons in or other social services or benefits.

It is the responsibility of each service **CONTRACTOR** to acquaint itself with all of the provisions of the Section 504 regulations. A copy of the regulations is available upon request at <http://www.dol.gov/oasam/regs/statutes/sec504.htm> .

Appendix IX
Contractor Responsibilities Regarding
Fair Share for Procurement, Construction and Subcontracting

The **CONTRACTOR** agrees to comply with EPA's Program for Utilization of Small, Minority and Women's Business Enterprises in procurement under assistance agreements in accordance with the following, as appropriate.

- a. The recipient must ensure to the fullest extent possible that at least 10 percent of Federal funds for prime contracts or subcontracts for supplies, construction, equipment or services are made available to organizations owned or controlled by socially and economically disadvantaged individuals, women, and historically black colleges and universities.

The recipient agrees to include in its bid documents an MBE "Fair Share" percentage (7%) and a WBE "Fair Share" percentage (3%) which total at least 10 percent and to require all of its prime **CONTRACTORS** to include in their bid documents for subcontracts an MBE "Fair Share" percentage (7%) and a WBE "Fair Share" percentage (3%) which total at least 10 percent.

To evaluate compliance with the "Fair Share" policy, the recipient also agrees to comply with the six affirmative steps stated in 40 CFR 30.44(b), 31.36(e) or 35.6580(a), as appropriate.

The recipient agrees to submit EPA Form 5700-52A "MBE/WBE Utilization Under Federal Grants, Cooperative Agreements, and Interagency Agreements", to the Contract Office by October 15th of each year. Negative reports are also required.

- b. Minority business enterprises shall be included in all procurements and construction projects and shall be awarded a minimum of ten percent (10%) of the dollar value of the entire procurement or project in accordance with Minority Business Enterprise (RIGL 37-14.1) and the "Regulations Governing Participation by Minority Business Enterprises in **STATE** Funded and Directed Public Construction Projects, Construction Contracts and Procurement Contracts for Goods and Services," as amended.

Appendix X Drug-Free Workplace Policy

Drug use and abuse are subjects of immediate concern in our society. These problems are extremely complex and ones for which there are no easy solutions. From a safety perspective, the users of drugs may impair the well-being of all employees, the public at large, and result in damage to property. Therefore, it is the policy of the **STATE** that the unlawful manufacture, possession, or use of a controlled substance is prohibited in the workplace. Any employee (s) violating this policy will be subject to discipline up to and including termination. An employee may also be discharged or otherwise disciplined for a conviction involving illicit drug behavior, regardless of whether the employee (s) conduct was detected within employment hours or whether his/her actions were connected in any way with his or her employment. The specifics of this policy are as follows:

Any unauthorized employee who gives or in any way transfers a controlled substance to another person or sells or manufactures a controlled substance while on duty, regardless of whether the employee is on or off the premises of the employer will be subject to discipline up to and including termination.

The term "controlled substance" means any drugs listed in 21 USC, section 812 and other federal regulations. Generally, all illegal drugs and substances are included, such as marijuana, heroin, morphine, cocaine, codeine or opium additives, LSD, DMT, STP, amphetamines, methamphetamines, and barbiturates.

Each employee is required by law to inform the agency within five (5) days after he/she is convicted for violation of any federal or **STATE** criminal drug statute. A conviction means a finding of guilt (including a plea of *nolo contendere*) or the imposition of a sentence by a judge or jury in any federal or **STATE** court.

The employer (**CONTRACTOR** or subcontractor) will be responsible for reporting conviction(s) to the appropriate federal granting source within ten (10) days after receiving notice from the employee or otherwise receives actual notice of such conviction(s). All convictions must be reported in writing to the Office of Personnel Administration (OPA) time frame.

If an employee is convicted of violating any criminal drug statute while on duty, he/she will be subject to discipline up to and including termination. Conviction (s) while off duty may result in discipline or discharge.

The **STATE** encourages any employee with a substance problem to seek assistance from the Rhode Island Employee Assistance Program (RIEAP).

The law requires all employees to abide by this policy.

Appendix XI
Drug-Free Workplace Policy Contractor Certificate of Compliance

I, James K Petell, a **CONTRACTOR** doing business with the **STATE**, hereby acknowledge that I have received a copy of the **STATE** policy regarding the maintenance of a drug-free workplace. I have been informed that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance (to include but not limited to such drugs as marijuana, heroin, cocaine, pep, and crack, and may also include legal drugs which may be prescribed by a licensed physician if they are abused), is prohibited on **STATE** premises or while conducting **STATE** business. I acknowledge that my employees must report for work in a fit condition to perform their duties.

As a condition for contracting with the **STATE**, as a result of the federal omnibus drug act, I will require my employees to abide by the **STATE's** policy. Further, I recognize that any violation of this policy may result in termination of the contract.



CONTRACTOR's Authorized Agent/Signature

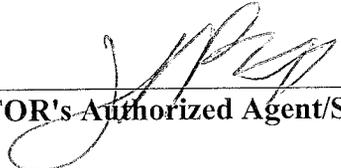
5/9/14

Date

James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization

**Appendix XII
Drug-Free Workplace Policy
Subcontractor Compliance**

I, James K. Petell, a **CONTRACTOR** doing business with the **STATE**, hereby certify that all approved subcontractors performing services under the terms of this agreement will have executed written contracts with this agency, and all contracts will be maintained on file and produced upon request. All contracts must contain language identical to the provisions of this agreement as follows:



CONTRACTOR's Authorized Agent/Signature

5/9/14
Date

**James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization**

Appendix XIII
Contractor Certificate of Compliance
Regarding Environmental Tobacco Smoke

Public Law 103-227, Part C - Environmental Tobacco Smoke, Also Known As The Pro-Children Act of 1994 (**act**), requires that smoking not be permitted in any portion of any indoor facility owned or leased or contracted for by an entity and used routinely or regularly for the provision of health, day care, education or library services to children under the age of 18, if the services are funded by federal programs either directly or through state or local governments, by federal grant, contract, loan, or loan guarantee. The law does not apply to children's services provided in private residences, facilities funded solely by Medicare or Medicaid funds, and portions of facilities used for inpatient drug or alcohol treatment. Failure to comply with the provisions of the law may result in the imposition of a civil monetary penalty of up to \$1000 per day and/or the imposition of an administrative compliance order on the responsible entity.

Signature below certifies that **CONTRACTOR** will comply with the requirements of the **act**.

CONTRACTOR's  **Authorized Agent/Signature** 5/9/14
Date

James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization

**Appendix XIV
Contractor Certificate of Compliance
Regarding Hotel and Motel Safety**

CONTRACTOR certifies that all requisitions for conference, meeting, convention, or training space funding in whole or in part with federal funds complies with the Hotel and Motel Fire Safety Act of 1990.

If a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the federal government, the **DOT** may terminate this Agreement for cause of default.

CONTRACTOR's Authorized Agent/Signature

5/9/14

Date

**James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization**

Appendix XV
Certification Regarding Debarment, Suspension, And Other Responsibility Matters -
Primary Covered Transactions

CONTRACTOR certifies to the best of its knowledge and belief, that it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state or local) transaction or contract under public transaction; violation of federal or state antitrust statues or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- c. Are not presently indicted or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any offenses enumerated in Item b of this certification; and
- d. Have not within a three-year period preceding this application/proposal had one or more public transactions (federal, state or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statement in this certification, such prospective participant shall attach an explanation to this proposal.



CONTRACTOR's Authorized Agent/Signature 5/9/14
Date

James Petell, Ph.D.
Associate Vice President
Intellectual Property
Management & Commercialization



Storm Water Phase II Public Outreach, Education, Involvement and Participation

Progress Report University of Rhode Island February, 2014

Reporting Period:	July 1, 2014 to December 31, 2014
University of Rhode Island Investigators	Lorraine Joubert, Lisa D. Philo and Arthur Gold
URI Project Officer	Lorraine Joubert, Coordinator RI NEMO University of Rhode Island, CELS Cooperative Extension, NRS Dept. Coastal Institute 1 Greenhouse Road Kingston, RI 02881
RI Dept. of Transportation Project Officer	Allison Hamel, Environmental Scientist RI Department of Transportation Natural Resource Unit 2 Capitol Hill, Rm. 368 Providence, RI 02903
RI Dept. of Environmental Management Project Officer	Eric Beck, Supervising Engineer RI Department of Environmental Management Division of Water Resources, RIPDES Program 235 Promenade Street Providence, RI 02908
Contracting Office	University of Rhode Island Sponsored Projects Review 70 Lower College Road Kingston, RI 02881
Project Period:	2/14/14 –1/31/15



Storm Water Phase II Public Outreach, Education, Involvement and Participation

Progress Summary July 1 – December 31, 2014

Project Description

With funding from the Rhode Island Department of Transportation (RIDOT) and oversight by the Rhode Island Department of Environmental Management (RIDEM), the University of Rhode Island Cooperative Extension (URI) and the Southern Rhode Island Conservation District (SRICD) is assisting RIDOT to establish and maintain ongoing public education and outreach on preventing stormwater pollution, and to actively involve the public in carrying out its stormwater management program plan. The project goal is to develop public education materials, outreach methods and related tools to assist RIDOT, Rhode Island municipalities, and other groups implement effective stormwater management programs. This project is directly supporting RIDOT and participating municipalities in complying with Phase II permit requirements.

The major project objectives are to:

- Train government staff, local officials, and others in updated storm water management practices focusing on the revised RI Soil Erosion and Sediment Control Handbook.
- Promote public awareness of storm water impacts and control actions through statewide education, outreach, and public involvement.
- Provide educational materials and outreach methods for use by municipalities, state agencies, community organizations and others in a readily accessible format.

Background

This project is designed to build upon and expand the Storm Water Phase II Public Outreach and Education project that was active from 2006 to 2011. Afterwards, URI continued to maintain RISTormwaterSolutions.org, the project website, respond to requests for information, and assist DEM with communication on stormwater topics, but without undertaking new initiatives. The agreement for this project was signed in June, 2014 and work began on July 1, 2014.

Staff

- Lorraine Joubert, URI Cooperation Extension NEMO
- Lisa Philo, URI Cooperative Extension, NEMO
- Eric J. Scherer, Southern RI Conservation District
- Kate Bousquet, Southern RI Conservation District

Major Accomplishments

This summary is organized by the three major project Tasks A-C, and by subtasks selected as priorities for the reporting period.

A. State, Municipal and Private Sector Training

Task A-3 Outreach and Training in Use of the Revised RI Soil Erosion and Sediment Control Handbook

The SRICD is the designated lead for this task. With input from the SRICD, URI developed a scope of work based on the approved URI/DOT agreement and processed a subcontract with the SRICD, effective through January 30, 2015.

1.1 Distribute the revised erosion and sediment control handbook

RIDEM and the Southern RI Conservation District completed a major revision of the RI Erosion and Sediment Control Handbook, the first since 1989. Following a public comment period, updates were completed by Technical Review Committee members and RIDEM staff, and the revised Handbook was issued in August, 2014.

Handbook features:

- Incorporates the most up-to date technical information on soil erosion and sediment control (SESC) measures, including completely new sections on Site Planning and Management, Pollution Prevention, and Bio-Engineering.
- Organizes SESC measures by function in controlling erosion, runoff and sedimentation processes and provides a measure selection guide outlining sequence of controls.
- Contains guidance in developing and implementing soil erosion and sediment control plans to support compliance with state and local regulations.
- Is consistent with the 2010 RI Stormwater Design and Installation Standards Manual.

The SRICD worked with the RI State Conservation Committee (RI SCC) to create a process to manage requests for comments and updates to the Handbook (Appendix C. Request Form to Submit Updates to the Handbook (Attachment H)). The SRICD will manage the process of regularly updating the Handbook based on comments received, technical improvements and consistency with State standards and regulations.

RIDEM has agreed to publicize Handbook updates and notifications through the subscription to the OWRINFO e-mail list serve at: <http://listserve.ri.gov/mailman/listinfo/owrinfo>

Instructions for subscribing to the list serve are included in the Handbook Appendix D *Subscription for Updates and other Notices for the Handbook*.

The RIDEM issued public notice of the revised Handbook through the Notice of Availability and the RIDEM News Release. In addition, the SRICD widely publicized availability of the updated Handbook was to stakeholders and many others via email and direct mailings.

A central location for access to the Handbook and related information was established at the RIDEM Office of Water Resources website

www.dem.ri.gov/programs/benviron/water/permits/swcoord/index.htm

This site, created and maintained by RIDEM staff with support by the SRICD provides access to digital Handbook in pdf format and link to the OWRINFO list serve to receive Handbook updates. It also provides links to additional resources and tools for construction site stormwater control and permit compliance, including the RI Model SESC Template, other model templates and the Construction Site Environmental Results Program (ERP).

1.2 Develop a training plan in use of the 2014 update of the RI Soil Erosion and Sediment Control Handbook

Planning and Coordination

Project partners, RIDEM, RIDOT, URI NEMO, and SRICD met in August and September, 2014 to establish the training plan for Year 1 through January 30, 2015. From the first meeting it was decided to coordinate closely with URI Engineering on training being developed for DOT staff in using the ERP construction site inspection program.

At the request of the SRICD, members of the RI SESC Handbook Technical Review Committee (TRC) have agreed to continue work as the advisory committee for Handbook training. This is ideal as many have specialized skills in particular SESC measures and are most familiar with the Handbook updates. In addition, several individuals who are unable to participate in meetings due to time and travel constraints agreed to participate as Technical Advisors willing to share information and review materials. The SRICD and URI convened two meetings of the RI SESC Handbook Technical Review Committee (TRC), a full group meeting in October, 2014, and work session in November, 2014 to identify training priorities and resources. Input from the TRC was highly useful in developing the training plans and schedules. URI has since been coordinating with the DOT Professional Development Office to schedule trainings and will be seeking input from Kathleen Sisson, Chief of that office in designing training methods.

Training Schedule

The following training schedule was established with a focus on training DEM and CRMC SESC plan reviewers and DOT field inspectors: Four new workshops were planned, to be offered a total of 7 times.

I. Workshop Series for DEM /CRMC Staff in Using the Updated RI Soil Erosion and Sediment Control Handbook

Location: RIDEM, 235 Promenade St. Providence, RI

Trainers: RIDEM Staff and URI

1. The Introductory Workshop

Topics: Highlights new features of the Handbook, its connection to the Stormwater Manual, and performance criteria for SESC plans.

Audience: All DEM and CRMC staff involved with permitting, review, or inspection of construction and land development projects

Date: Friday, January 23, 2015 (morning)

2. Work Sessions on the General Plan Review Checklist (2 sessions)

Topics: General performance criteria for review of SESC plans, review and comment on draft DEM engineering plan review checklist.

Audience: All plan reviewers

One session, held twice

Dates:

Friday, January 23, 2015 (afternoon)

Tuesday, January 27, 2015 (afternoon) (rescheduled snow date Feb.12)

3. Work Session on Review of Complex/ Large Site Plan Elements

Topics: Details on performance criteria for large sites; review and comment on draft DEM engineering plan review checklist elements.

Audience: All large/complex site plan reviewers

Date: Tuesday, January 27, 2015 (morning) (rescheduled snow date Feb.12)

II. DOT Inspector Training (3 full day sessions)

Location: RIDOT Training Facility, Warwick, RI

Trainers: DOT and DEM staff, URI Engineering, URI NEMO

Topics - Morning: Results of the DOT ERP project and practice using the ERP Checklist (URI Engineering).

Topics - Afternoon: Inspection procedures using case studies to emphasize roles and responsibilities and illustrate new handbook measures and other inspection tools.

Dates: March 18, 25 and 27; 8:30-3:00

DEM / CRMC Workshop Planning

For the DEM workshops, URI NEMO developed workshop publicity materials, managed registrations and coordinated with speakers with assistance from DEM Staff. URI also prepared evaluations, workshop packets, managed other workshop logistics.

Throughout November and December 2014 URI and DEM staff developed workshop training modules to include presentations and case studies. The DEM engineering review checklist was

substantially revised for consistency with the updated SESC criteria in the Handbook. During this period project staff met on a regular basis to work on the modules and seek input from supervisors and staff in the DEM Fresh Water Wetlands Program and CRMC on inspection procedures and policies.

List of Training Resources

The SRICD compiled a listing of existing soil erosion and sediment control training programs nationwide as a resource for designing a comprehensive training program for all audiences. Over 22 sites were documented as to source, website address, training format (if available), content (table of contents if available or course description), agendas if available, targeted audiences, type of training products used (textbooks, handbooks, handouts, etc.), if CEUs are offered and if the training was for a certificate program, the time frame of the course and if there was an exam. Summary results were compiled using a spreadsheet but in-depth review of the programs was not conducted.

A-1 Stormwater Manual Updates

DEM drafted major revisions to Minimum Standard 10 of the RI Stormwater Design and Installation Standards Manual (RISDISM) for consistency with the Performance Criteria for Soil Erosion and Sedimentation Control Measures in the SESC Handbook and the 2013 RIPDES Construction General Permit. In addition, new performance criteria for Soil Erosion, Runoff, and Sedimentation Control Measures were added (Chapter 3.3.7) which mirror the Handbook criteria. The new standards and performance criteria will be required for all land disturbance and construction activities subject to the requirements of the RISDISM.

In planning training for DEM plan reviewers, the internal engineering review checklist was revised for consistency with the draft standards and performance criteria. The checklist will be a key component of the work session to ensure staff is prepared to address the new required control measures in their review.

A-5 Specialized DOT Staff Training (Task A-5)

Winter training for DOT inspectors is planned for March, 2015 as described in Task A-3, which will also support this objective.

B. Model Stormwater Education and Involvement Program

B-1 Evaluate Rhode Island Stormwater Solutions and Develop a Marketing Plan

In August, 2014 we investigated options for professional services to assist in evaluating our stormwater outreach to the public and to develop a marketing plan to enhance its effectiveness. Based on their expertise in environmental communication and experience working with state agencies and non-profit organizations throughout the US, we selected Water Works that Work, LLC (WWTW).

In preparation for this work we sent out a short survey to DOT /DEM project partners and a select few others asking them to rank their priorities for public education and outreach based on pollutants of concern or sources, and areas of the state.

We held several conference calls with Erik Eckl, director and other staff to develop the scope of services and terms and contacted three references to verify quality of the company and their work. Through September maintained contact with WWW as they drafted the proposal. We commented extensively on the initial proposal, leading to a re-write, with the final proposal provided to us in late October. We solicited feedback from DEM and DOT staff, and coordinated with the SRICD to execute the WWTW contract.

The WWTW contract was executed on November 5, 2014 and work continued through the end of December. Summary of work we completed:

- We completed a “Communications Checkup” with WWTW on November 25th to assess our strengths and weaknesses with regards to our education and outreach capacity.
- Lisa Philo completed an extensive literature review, attempting to assess specific information about Rhode Islander’s exposure to stormwater education efforts, and compiled a Rhode Island media guide.
- Lisa Philo solicited feedback from members of the NPS Listserv community about stormwater outreach and education programs, leading to an investigation of approximately 30 responses. We shared that literature review and media guide with WWTW to assist them in preparing a Rhode Island-specific Target Audience Profile.
- In December WWTW shared their research via two conference calls. On Dec. 10 we discussed the results of the Target Audience Profile to determine recommended audiences for stormwater outreach and education.
- On Dec. 19 we discussed an Outreach Jumpstart to contemplate possible outreach and education efforts.
- The next steps are for us to evaluate the options presented to us and select one to three outreach strategies by topic and specific target audience.

B-2 Develop and Deliver Consistent Public Messages on Preventing Stormwater Pollution Using a Variety of Media and Activities.

Launch of new RIStormwaterSolutions.org

The primary tool for public outreach on taking action to prevent stormwater pollution is the RIStormwaterSolutions.org website. The home page describes RI’s stormwater problem and emphasizes simple steps individuals can take that will make a difference. The website is also a storehouse of resources with consistent messages that stormwater managers can use to educate and involve the public in carrying out local stormwater programs.

In August 2014 we completed a major revision of the site, fully launching a new website with a brand-new look and more user-friendly organization of materials. We also transitioned to a new content management system using WordPress for simplified updating.

URI continued regular updates to the RI Stormwater Solutions website, including highlighting new monthly tips.

Coordination with other organizations to promote stormwater outreach

In October, we were invited to meet with the representatives of the Jamestown Arts Center and Conservation Commission members to discuss assisting with a storm drain art project that would focus heavily on youth education. We agreed to explore how to best support their education efforts by researching resources at URI. To that end Lisa Philo met with URI Outreach educators, including Amy Cabaniss, the new Youth STEAM Coordinator, who agreed to talk with the Jamestown group about their education efforts. We facilitated their meeting and Amy agreed to contract with the Jamestown Arts Center. Work will begin in the spring for a fall program involving elementary school children.

Lisa Philo contributed an article about stormwater pollution to the Wood Pawcatuck Watershed Association's newsletter. This is a regular spot in the newsletter, which is produced three times per year.

C. Project Management and Coordination

C-1 Implementation Schedule and Reporting

Project Coordination and Annual work plan

The project kickoff meeting was held 8/4/14, with project team members from DEM, DOT, URI, and the SRICD participating. The group developed a draft list of priorities through the end of 2014 which shortly afterwards, was finalized to address two topics:

1. Outreach and training in using the revised RI Soil Erosion and Sediment Control Handbook. These efforts will be merged with that of the URI Civil Engineering ERP project which will include training for DOT staff in using the Construction Site Stormwater Compliance self-certification checklists. In each case, use of online training or webinars was identified as a priority to make educational materials more widely available for all audiences, and to incorporate a variety of interactive techniques and hands-on exercises or field events to promote active learning.
2. Evaluate the project website - RI StormwaterSolutions.com, and develop a marketing plan. A consultant will be engaged to evaluate existing strategies and make recommendations to refresh and expand outreach. DEM and DOT input will be needed to identify priority areas and pollutants of concern.

C-2 Project Coordination and Communication

URI maintained communication with project partners and the TRC through emails, conference calls and meetings.

Lisa Philo managed communication with MS4s and through notices and updates sent through E-News using Constant Contact. This included notice to MS4s of project renewal in July 2014.

URI managed the subcontract with SRICD and worked with Kate Bousquet and Eric Scherer on reporting and billing procedures. In November, we met with Eric Scherer to discuss final results of his work on the project and products generated.



Storm Water Phase II Public Outreach, Education, Involvement and Participation

Progress Report University of Rhode Island February 2016

Reporting Period:	February 1, 2015 to January 31, 2016
University of Rhode Island Investigators	Lorraine Joubert, Lisa D. Philo and Arthur Gold
URI Project Officer	Lorraine Joubert, Coordinator RI NEMO University of Rhode Island, CELS Cooperative Extension, NRS Dept. Coastal Institute 1 Greenhouse Road Kingston, RI 02881
RI Dept. of Transportation Project Officer	Allison Hamel, Environmental Scientist RI Department of Transportation Natural Resource Unit 2 Capitol Hill, Rm. 368 Providence, RI 02903
RI Dept. of Environmental Management Project Officer	Eric Beck, Supervising Engineer RI Department of Environmental Management Division of Water Resources, RIPDES Program 235 Promenade Street Providence, RI 02908
Contracting Office	University of Rhode Island Sponsored Projects Review 70 Lower College Road Kingston, RI 02881
Project Period:	2/1/15 – 1/31/16



Storm Water Phase II Public Outreach, Education, Involvement and Participation

Progress Summary February 1, 2015 – January 31, 2016

Project Description

With funding from the Rhode Island Department of Transportation (RIDOT) and oversight by the Rhode Island Department of Environmental Management (RIDEM), the University of Rhode Island Cooperative Extension (URI) and the Southern Rhode Island Conservation District (SRICD) are assisting RIDOT to establish and maintain ongoing public education and outreach on preventing stormwater pollution and actively involving the public in carrying out its stormwater management program plan. The project goal is to develop public education materials, outreach methods, and related tools to assist RIDOT, Rhode Island municipalities, and other groups to implement effective stormwater management programs. This project is directly supporting RIDOT and participating municipalities in complying with Phase II permit requirements.

The major project objectives are to:

- Train government staff, local officials, and others in updated storm water management practices focusing on the revised RI Soil Erosion and Sediment Control Handbook.
- Promote public awareness of storm water impacts and control actions through statewide education, outreach, and public involvement.
- Provide educational materials and outreach methods for use by municipalities, state agencies, community organizations, and others in a readily-accessible format.

Background

This project is designed to build upon and expand the Storm Water Phase II Public Outreach and Education project that was active from 2006 to 2011. Afterwards, URI continued to maintain RISTormwaterSolutions.org, the project website, respond to requests for information, and assist DEM with communication on stormwater topics, but without undertaking new initiatives. The agreement for this project was signed in June 2014 and work began on July 1, 2014.

Staff

- Lorraine Joubert, URI Cooperation Extension NEMO
- Lisa Philo, URI Cooperative Extension, NEMO
- Kate Bousquet, Southern RI Conservation District

Major Accomplishments

This summary is organized by the three major project Tasks A-C, and by subtasks selected as priorities for the reporting period.

A. State, Municipal and Private Sector Training

A-1 MS4 Workshops on Stormwater Manual Updates and Policies

In May, we submitted comments to DEM on the draft proposal submitted by Cherenzia & Associates for updates to the stormwater manual and related training. DEM review and revisions to the proposal continued to September.

We suggested establishing a small subcontract with UNH to provide oversight on this project and Eric Beck approved. This could include assisting Cherenzia with research by providing readily available UNH information on current bmp specifications. We contacted Jamie Houle who expressed interested and estimated the cost at \$5,000.

In November 2015, we prepared a subcontract with Jamie Houle, UNH Stormwater Center, to provide oversight and review of Cherenzia & Associates work in updating the Stormwater Design and Installation Standards Manual. The agreement was finalized in November.

In January 2016, we participated in a presentation by Cherenzia Associates on research and recommendations for the stormwater standards manual update. Summarized issues and questions raised and sent to Jamie Houle, UNH Stormwater Center for his review and comments.

A-2 Inspection and Maintenance Manual (Templates) for Post Construction Stormwater Facilities

In June, we coordinated with Casey McGrath, DOT student intern, on her work in drafting the O&M Templates. Provided her with examples from other states and reviewed and commented on her drafts.

In August, we participated in a conference call to outline next steps in developing the Inspection and Maintenance manual with DOT and DEM. NEMO agreed to develop a survey for MS4s on their O&M needs. The survey was created using Constant Contact and sent to DEM and DOT for their review in early September 2015. A planned meeting or conference call was postponed. We communicated several times with DEM in October and November about resuming this work, but no review on their part has been scheduled.

We reviewed a new course by StormwaterONE on post-construction, in the event that our suggested work with StormwaterONE is approved.

A-3 Outreach and Training in Use of the RI SESC Handbook

February

We continued communication efforts and preparation for the Feb. 12th DEM/CRMC staff workshop **Using the Updated RI Soil Erosion and Sediment Control Handbook**. This training was postponed from January 27 due to snow. We helped prepare exercises and

handout, assisted in managing the training, and delivered an overview of the updated SESC Handbook. After the training, we summarized evaluations and workshop data. Agendas and evaluations available at: <http://web.uri.edu/nemo/2015Workshops/>

March

In March, we began preparing for the March 18th **RIDOT Winter Training: The New Way of Doing Business-Soil Erosion, Sediment Control and Compliance**, for DOT inspectors. We helped develop a factsheet on Illicit discharges and connections, and assisted in conducting and facilitating the training using keypad polling. We summarized evaluations and workshop data from the training.

April

In April, we revised some training materials for the second DOT Winter Training workshop for Inspectors, coordinated a new training date (postponed from March 25 and 27) and participated in the program, held April 27th. We also summarized evaluations and workshop data from the April 27th RIDOT Winter Training. Agendas, presentations, handouts and evaluations for both RIDOT workshop sessions are available at <http://web.uri.edu/nemo/2015Workshops/>

May

In May, Lisa Philo began researching soil erosion and sediment control programs in other states, with a focus on states with licensing/certification.

We participated in a StormwaterOne webinar on MS4 stormwater training, held on May 20th, to learn more about this company's online training programs and possibilities for RI SESC training.

June

Lisa Philo continued research about soil erosion and sediment control programs in other states. She also contacted SESC education vendors to find out what existing programs we might be able to leverage.

We held an initial meeting with Andrew Demers, president of StormwaterOne on June 5th to discuss online training options for RI using existing training programs developed for other DOT /state agencies. He followed up with a general proposal and cost estimate.

We revised and reformatted the Construction Site Fact Sheet series focusing on Soil Erosion and Sediment Control basics, Illicit Discharges, and Pollution Prevention.

We participated in the SESC Handbook TRC meeting on manual updates on June 30th. Lisa Philo provided an update of her research on SESC training and certification programs nationally.

July

Lisa Philo continued research on SESC training and certification programs and prepared a summary of findings for discussion at the planned August 7th meeting between DOT/DEM.

We also continued to explore the feasibility of working with StormwaterOne through regular communication with Andrew Demers to identify training options and refine price structures. Lisa developed a more detailed training plan to counter Andrew's initial proposal to address DOT, DEM, MS4 and private sector training needs. We held a conference call with DOT and DEM

staff to discuss state agency support for working with StormwaterOne and develop realistic numbers of potential trainees from agencies, MS4s, and private sector.

August

We coordinated with DOT/DEM to plan a meeting with DOT and DEM managers to discuss SESC certification and training recommendations. The meeting was postponed from August 7th to September 10th.

September

We participated in the September 10th meeting between DOT/DEM staff and managers to discuss the results of SESC training research and provide recommendations. We gave a presentation of the research and recommendations. And provided a table of the research: *At-A-Glance Summary of Other States' Soil Erosion and Sediment Control Certified Training Programs*.

After that meeting, we prepared a new document to answer questions about our recommendations that arose at the meeting: *Soil Erosion and Sediment Control Training: A Plan for Rhode Island*. We circulated this, as well as the requested narrative summary of research (*Summary of Soil Erosion and Sediment Control Trainings: Other States and Educational Vendors*) to the group.

October - January

Conducted a survey of municipal building officials in October 2015 to gauge municipal support for SESC training and certification for contractors. We received 16 responses, with an overwhelming majority supporting our suggested training and certification plan.

Attended a meeting on October 16, 2015 about SESC training and certification with DOT and DEM. Andrew Demers, the president of StormwaterONE, was in attendance. Gave a second presentation to this group about the merits and logistics of an SESC training program utilizing StormwaterONE.

Participated in a conference call with DOT and DEM staff about the training on November 10, 2015. Additionally, we communicated frequently via e-mail with DOT and DEM about the training and certification planning.

A-4 Model Ordinances to Incorporate RI Stormwater Standards in Municipal Ordinances

We participated in the URI Coastal Resource Center Get a GRIP project kickoff meeting on April 16th. NEMO is a member of the advisory committee. The project involves installation of green infrastructure retrofits and stormwater ordinance updates in coastal areas of North Kingstown, Newport, and Warwick. On April 22nd, we met with CRC staff Pam Rubinoff and intern Andrew Youngs to scope out their review of stormwater ordinances in the three communities.

On Sept. 3rd, met with Pam Rubinoff, CRC and Shannon Brawley, RINLA to discuss opportunities to cooperate on current projects including RINLA's Green Infrastructure jobs training program, and to review CRC's inventory of stormwater ordinances in three communities. RINLA and CRC would like to have their members/ project partners review stormwater manual updates. They are also interested in participating in development of model ordinances for MS4s.

In October 2015, we participated in EPA webinar on model municipal stormwater standards presented by UNH Stormwater Center.

In November 2015, we provided comments to Jim Turenne, NRCS Soil Scientist, on final updates to the RIGIS soils database to support local project review focusing on site suitability and stormwater planning.

In December 2015, we participated in a RI Green Infrastructure Project (GRIP) meeting on local land use policies to support green infrastructure.

In January 2016, we met with DEM staff (Elizabeth Scott, Alisa Richardson, and Ernie Panciera) and CRC staff (Pam Rubinoff and Andrew Young) to discuss coordination with DEM on the GRIP project, focusing on local training and development of model ordinances.

A-7 Technical Support to MS4s in Public Education and Involvement Methods

In January 2016, we met with members of the New Shoreham planning board, Committee for the Great Salt Pond, and town planner to discuss implementing a town stormwater management program focusing on storm drain mapping and public education in the Great Salt Pond watershed. We agreed to participate in a work session with the Planning Board in April 2016.

In January 2016, we met with Deirdre Paiva, Commonwealth Engineering and consulting engineer for Tiverton, regarding conducting a work session for the planning board on implementing LID in project review. That work session is planned for May or June 2016.

No progress on the following tasks, scheduled primarily for Year 3 or later:

A-5 Specialized DOT Staff Training No

A-6 MS4 Training in Developing a TMDL Implementation Plan

A-8 MS4 Workshops on LID / Pollution Prevention Topics

B. Model Stormwater Education and Involvement Program

B-1 Evaluate RI Stormwater Solutions and Develop a Marketing Plan

In February, we prepared for conference call on Feb. 11th with Water Words That Work (WWTW) about a statewide outreach strategy, as a follow-up from the Outreach Jumpstart document prepared for us.

We postponed the final conference call with WWTW to discuss more about a statewide outreach strategy, originally scheduled for April 22nd, due to the need for input from Allison Hamel, who was unavailable due to death in the family.

After further evaluating the draft WWTW outreach strategy, we decided that none of the targeted outreach concepts suggested by WWTW (which emphasized social media strategies on pet waste pickups, increasing website visits by partnering with other organizations, and conducting outreach such as pledges or photo competitions) met our needs. After preparing a summary document of this work, used to get input from DOT and DEM staff, we decided to

focus public outreach efforts on building public support for adoption and implementation of local stormwater ordinances. Since WWTW did not have any prior experience in this area, we chose not to continue with them for the development of any of the proposed marketing campaigns and terminated the subcontract with WWTW.

Per the recommendation of DEM, we investigated the EPA brand *Soak Up The Rain*. We found that our website, RI Stormwater Solutions, is one of the top links on their site:

<http://www.epa.gov/soakuptherain/see-whos-soaking-rain>

From October 2015 to January 2016, we researched possible methods for outreach to build public support for adoption and implementation of local stormwater ordinances. Our work with Water Words That Work suggested that capturing an audience who is engaging with a stormwater issue would increase the effectiveness of the outreach and education. To that end, we are exploring outreach that targets three stormwater issues with three separate audiences:

- Issues of beach closure for those getting beach passes;
- Issues of stormwater-related flooding through flooding repair and/or mitigation services and contractors; and
- Issues of stormwater-related regulations at the time of construction through the local permitting process for homeowners.

While the outreach would highlight the specific consequences of stormwater, it would pivot to positive solutions embraced in the adoption of local stormwater ordinances. Development of these materials is planned for Year 3.

B-2 Develop and Deliver Consistent Public Messages on Preventing Stormwater Pollution

In February, we fielded an inquiry from Compass School about an education display at their annual Eco Fair on June 6th. Stormwater materials and the watershed model were displayed, in collaboration with CE Outreach staff (Vanessa Garcia).

On February 24th, the **So Rhode Island** magazine, produced by Providence Monthly, posted the article "Conserving Water" on water conservation using rain barrels and rain gardens, with the RI Stormwater Solutions top ten tips. This article featured Beverly O'Keefe, the "RI Water Lady" whom we partner with in spreading information about preventing stormwater pollution.

In March, we responded to a request for information about stormwater education from Josh Rosen, South Kingstown town engineer. After discussing other outreach topics we provided him with curriculum materials and connected him with the URI Outreach Center. As a result, the town worked with the Outreach Center staff and 4th grade teachers at West Kingstown Elementary school, and in June, held classroom training for two 4th grade classes using the Enviroscope stormwater model and other activities.

We developed and delivered an interactive presentation on low impact lawn and landscape care, "Protect Your Lake From Your Own Backyard," to volunteer monitors at the URI Watershed Watch annual brunch on March 28th, held at the South Kingstown Land Trust Barn, Matunuck. There were 35 attendees.

We fielded phone calls from other states requesting RI Stormwater Solutions educational materials.

In March, we discussed sharing stormwater outreach materials with the Village of Lansing, NY. (Phone conversation with Marty Mosely; 607.257.8363.)

In July, we added Stormwater Stories to the RISS website, a new feature highlighting current news articles on local stormwater topics that will be archived by sub-topic, over time.

Through a Constant Contact e-News to MS4s, we advertised a notice for a national stormwater grant. Our open rate was almost 27%, higher than the industry average, and our click-through rate was 30%, significantly higher than the industry average.

In September, we met with Vanessa Venturini of the URI Outreach Center to identify opportunities to cooperate on promoting stormwater education for youth and the general public. Outreach Center staff responsible for youth education have obligations under existing grant-funded projects, but Vanessa indicated that Master Gardeners would be available to deliver presentations on low impact lawn and landscape care.

Master Gardener Talks and Youth Education

- March 25th: Stormwater- Friendly Lawn and Landscape Care, Kingston Library, Master Gardener Beverly O'Keefe
- August 4th, 5th, and 6th: Master Gardener volunteer Rosemary Smith presented URI's EnviroScape Model at three Girl Scout Camps of Southeastern New England, focusing on the water cycle, stormwater and personal responsibility. The camp theme of the week was the Wonders of Water. Each camp needed two presentations as the numbers of participants were large and the camp directors and I wanted it to be a hands-on experience for the Girl Scouts. Details:
 - Tuesday, August 4, 2015, Camp Cookie, Chepachet, RI 42 Scouts + 6 Leaders = 48 Total Participants
 - Wednesday, August 5, Camp Promising Acres, Swansea, MA 51 Scouts + 6 Leaders = 57 Total Participants
 - Thursday, August 6, Camp Green Forest, West Kingston, RI 67 Scouts + 8 Leaders = 75 Total Participants

"It was such a delightful experience as a presenter because the scouts were so invested in the presentation. They brought what they knew from home, school, field trips and scouting activities to the presentation. They left with a better understanding of the importance of water in life and the steps that they could take to personally keep pollutants and trash out of stormwater. It was a lively discussion!" - Rosemary Smith, Master Gardener

Responded to requests for youth stormwater curriculum materials

- Katie Heath, Jefferson County Soil and Water Conservation Society, Alabama GA, jeffersonsoilandwater@bham.rr.com (2/10/15)
- Adriana Cillo, Educational Programs Coordinator, Boston Water & Sewer Commission, 980 Harrison Ave, Boston, MA 02119-2540, Cilloa@BWSC.org (4/8/15)

Provided files for customization of rain garden signs

- Tim Cranston, North Kingstown Water Department, for new raingarden at NK library, Sept 2015

- Eric Scherer, SRICD for rain garden installations at landscape care companies in South Kingstown, RI
- Eugenia Marks, RI GI Coalition
- Julie Lienert, julie@roxydesigns.com, northern California (8/26/15)

Provided cartoons and/or permission to use

- Angelia Miller, Chesapeake Conservation Corps Intern, Frederick County Office of Sustainability and Environmental Resources, 30 N. Market St., Frederick, Maryland, AMiller1@frederickcountymd.gov (10/12/15)
- Galen McGovern, Wastewater Manager, Portsmouth, RI, gmcgovern@portsmouthri.com (8/13/15)
- Trevor Dickerson, Iowa Onsite Wastewater Association (IOWWA) t.dickerson@mmsconsultants.net (4/29/15)

On a monthly basis, we continued to maintain and update the RI Stormwater Solutions website.

In October, we began significant overhaul of RI Stormwater Solutions website. Improved top level navigation, streamlining links, and adding a new sidebar navigation to the homepage to reflect current social media buzz words (called Trending). Delineated work done on the first grant (2006 – 2011) from current work, through changes to the About Us sections. Added a Soil Erosion and Sediment Control page, with links to DEM site and factsheet series about construction activities. Significant changes to the way information is presented are planned for Year 3.

In November, we met with college webmaster, Chandu Dondeti, to discuss the value of social media marketing to our public outreach and education efforts. Consequently, investigated the use of Twitter to promote messages about stormwater.

Updated electronic communication templates to reflect increasing reliance on mobile devices. Templates are now mobile-friendly.

Advertised a Narragansett Bay Stormwater Financing workshop. Our open rate was 25%, slightly higher than the industry average, and our click-through rate was 12%, significantly higher than the industry average.

Initiated several follow-up communications with Amy Cabaniss, Youth STEAM Education Coordinator at URI Outreach Center, regarding the youth education project about which Jamestown contacted us in October 2014. That project is awaiting final town approval.

B-3 Develop Source-Specific Outreach Materials and Delivery Methods for Stormwater Managers

On October 23, 2015, we met with Charlestown planner and wastewater manager, Salt Ponds Coalition staff, and Ann Manion, a digital marketing consultant, to discuss strategies for public outreach on landscape care and on-lot LID practices for use in updating RISS website.

Continued investigating options for updating RISS public education on landscape care. Participated in a meeting with RI Nursery and Landscape Association (RINLA) and professors

Art Gold and Emi Uchida to discuss development of voluntary fertilizer application standards, as part of a research project in Middletown, RI.

Worked with a student intern to investigate other state's lawn care recommendations for water quality protection and related outreach. We investigated Jersey-Friendly Yards, including a conversation with Karen Walzer of Barnegat Bay Partnership. The Jersey website is very new, so we scheduled follow-up after they've done evaluation in May.

In January 2016, we continued to work with the Town of Charlestown on landscape care recommendations, meeting with Tom Gentz, Town Council president, and RINLA members at URI on January 7, 2016.

C. Project Management and Coordination

C-1 Implementation Schedule and Reporting

We completed the annual progress report in February 2015.

On Feb. 13th, we met with DEM and DOT project staff to discuss the Year 2 work plan and DOT training priorities.

On June 16th, we met with DOT and DEM project staff to outline priorities for Year 2. Following this meeting, we updated the scope of work for Year 2.

In July, URI received the approved Year 2 project agreement from DOT.

The Year 2 project award was processed in August 2015. This allowed spending of project funds to resume since the project ended January 31st.

In October 2015, we met with URI Office of Sponsored Projects on new URI procedures review and approval of subcontracts.

In January 2016, we collected information for final quarter budget and progress reports.

Throughout the reporting period, we monitored the project budget and coordinated with the SRICD on management of subcontracts.

C-2 Project Coordination and Communication

URI maintained communication with project partners and the TRC through emails, conference calls and meetings.

URI managed the subcontract with SRICD and worked with Kate Bousquet on reporting and billing procedures.

In March, we participated in a conference call with Meg Kerr of the RI Green Infrastructure Coalition to discuss annual work plans and current projects. We provided seminal information about LID throughout Rhode Island as we shared our LID Inventory database, which they used on their website. As a member of the RI Coalition, we agreed to stay informed on GI Coalition

activities through emails until there are opportunities to cooperate on ordinance updates or public education.

Lisa Philo attended UConn northeast regional stormwater meeting from June 2-3, 2015, hosted by CT NEMO, and presented about project accomplishments and current objectives. She collaborated on a possible peer-reviewed journal article about the status of green stormwater infrastructure in New England and the role of Cooperative Extension in its promotion.

In October 2015, we provided our contribution to the article about stormwater, green infrastructure, and methods for improving education, outreach, and adoption of best management practices. The article is currently being finalized by the lead author for publication.

Lisa Philo attended the Maine Stormwater Conference from Nov. 16- 17, 2015 in Portland, ME.

C-3 Evaluation and Assessment

Evaluations were completed for all workshops and hosted on our website.

For work under Task A-3, we conducted a survey of municipal building officials in October 2015 to gauge municipal support for SESC training and certification for contractors. We received 16 responses, with an overwhelming majority supporting our suggested training and certification plan.

Appendix: List of All Documents Created During This Reporting Period

Copies are available upon request.

Task A-3 Outreach and Training in Use of the RI SESC Handbook

- Workshop evaluation summaries for SESC Handbook trainings held Feb. 12th, Mar. 18th, and Apr. 27th are available on our website at: <http://web.uri.edu/nemo/2015Workshops/>
- *Summary of Soil Erosion and Sediment Control Trainings: Other States and Educational Vendors*
- *At-A-Glance Summary of Other States' Soil Erosion and Sediment Control Certified Training Programs*
- *Soil Erosion and Sediment Control Training: A Plan for Rhode Island*
- *Construction Site Fact Sheet Series: Soil Erosion and Sediment Control Basics, Illicit Discharges, Preparing Your Site, and Pollution Prevention, available on the DEM website at:*
<http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/conindex.htm>

Task B-1 Evaluate RI Stormwater Solutions and Develop a Marketing Plan

- *Outreach Jumpstart Notes* (by WWTW)
- *Update On Our Work With WWTW*, Spring 2015

Task B-2 Develop and Deliver Consistent Public Messages on Preventing Stormwater Pollution

- So Rhode Island magazine article "Conserving Water: The RI Water Lady makes a big splash", with RI Stormwater Solutions top ten tips, at:
<http://sorrhodeisland.com/stories/Conserving-Water,14595?>

URI NEMO
February 2016

Check all topics that were included in the Public Education and Outreach program during this reporting period. For each of the topics selected, provide the target pollutant (e.g. construction sites, total suspended solids):

Topic	Target Pollutant(s)
<input checked="" type="checkbox"/> Construction Sites	TSS; nutrients; heavy metals
<input checked="" type="checkbox"/> Pesticide and Fertilizer Application	nutrients
<input checked="" type="checkbox"/> General Stormwater Management Information	nutrients; bacteria; toxics
<input checked="" type="checkbox"/> Pet Waste Management	nutrients; pathogens
<input checked="" type="checkbox"/> Household Hazardous Waste Disposal	toxics
<input type="checkbox"/> Recycling	
<input checked="" type="checkbox"/> Illicit Discharge Detection and Elimination	TSS; nutrients; metals; pff
<input type="checkbox"/> Riparian Corridor Protection/Restoration	
<input type="checkbox"/> Infrastructure Maintenance	
<input checked="" type="checkbox"/> Trash Management	TSS; solid waste
<input checked="" type="checkbox"/> Smart Growth	All
<input checked="" type="checkbox"/> Vehicle Washing	soap; TSS; hydrocarbons
<input checked="" type="checkbox"/> Storm Drain Marking	debris; TSS; hydrocarbons
<input type="checkbox"/> Water Conservation	
<input checked="" type="checkbox"/> Green Infrastructure/Better Site Design/LID	All
<input type="checkbox"/> Wetland Protection	
<input type="checkbox"/> Other:	
<input type="checkbox"/> None	

Specific audiences targeted during this reporting period:

<input checked="" type="checkbox"/> Public Employees	<input checked="" type="checkbox"/> Contractors
<input checked="" type="checkbox"/> Residential	<input checked="" type="checkbox"/> Developers
<input checked="" type="checkbox"/> Businesses	<input checked="" type="checkbox"/> General Public
<input type="checkbox"/> Restaurants	<input type="checkbox"/> Industries
<input type="checkbox"/> Other:	<input type="checkbox"/> Agricultural

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

- | | |
|--|---|
| <input type="checkbox"/> Cleanup Events | <input type="checkbox"/> Storm Drain Markings |
| <input type="checkbox"/> Comments on SWMP Received | <input type="checkbox"/> Stakeholder Meetings |
| <input type="checkbox"/> Community Hotlines | <input type="checkbox"/> Volunteer Monitoring |
| <input type="checkbox"/> Community Meetings | <input type="checkbox"/> Plantings |
| <input checked="" type="checkbox"/> Other (describe) | |

Public outreach, education, and involvement tools and techniques are provided on our website, RI Stormwater Solutions.org, for MS4s and the general public.

Rhode Island Department of Transportation Professional Development & Training

Employees Who Have Completed the 'Environmental Factors in Construction and Maintenance' Training Class

<u>Employee</u>	<u>Completion Date</u>	<u>Fiscal Year</u>
Abarr, Daniel K	8/28/2015	FY16
Aubin, Carleton D	8/28/2015	FY16
Bailey, Lawrence T	8/28/2015	FY16
Cimaglia Iii, Anthony	8/28/2015	FY16
Crete Jr., Normand A	8/28/2015	FY16
Ferguson, Brian D	8/28/2015	FY16
Ferrara, Robert M	8/28/2015	FY16
Gannon, James M	8/28/2015	FY16
Gauthier, Gilbert A	8/28/2015	FY16
Giammarco, Christine B	8/28/2015	FY16
Hamel, Allison R	8/28/2015	FY16
Hawkes, Samuel L	8/28/2015	FY16
Holland, M. Emilie	8/28/2015	FY16
Lopes, Milton A	8/28/2015	FY16
Murphy Jr, Donald C	8/28/2015	FY16
Omisore, Harold A	8/28/2015	FY16
Orr Jr., James C	8/28/2015	FY16
Perri, Frank A	8/28/2015	FY16
Ricci, Stephen A	8/28/2015	FY16
Swift, Michael J	8/28/2015	FY16
Walsh, Brian F	8/28/2015	FY16

[Back](#)

Stormwater Pollutant Chemistry: Applications to Monitoring and BMP Effectiveness Training Course - Providence, RI

Start December 09, 2014
8:00 AM
End December 10, 2014
5:00 PM
Location Woodard & Curran,
95 Cedar Street,
Providence, Rhode
Island 02903

Registration

- **SWM-402: Stormwater Chemistry – \$495.00 (USD)**
\$395 per additional guest.

Registration is closed

Stormwater Pollutant Chemistry: Monitoring & BMP Effectiveness



Course ID: SWM-402

December 9 - 10, 2014, 8 A.M. to 5 P.M. (2 Days)
Hosted by Woodard & Curran, Main Conference Room
95 Cedar Street, Suite 100, Providence, RI 02903 [\[directions\]](#)

Note: This workshop is full. Please [send us an email](#) to be added to the waiting list.

Overview: This practical and highly acclaimed course provides a comprehensive overview of stormwater pollution chemistry and its applications to stormwater monitoring and treatment. Topics include an overview of stormwater contaminant sources, characteristics, transport and fate, monitoring, treatment best management practices (BMPs), BMP selection and performance, current research, and emerging technologies. Surface water and groundwater protection are also covered.

Course Topics

<p>Runoff Characteristics</p> <ul style="list-style-type: none"> • Stormwater and MS4s • Dry Weather Base Flows • Combined Sewer Overflows • Urban Snowmelt • Hydrographs • Chemo/Pollutographs • Common Pollutant Sources • Atmospheric Deposition • Chemistry Variability Factors • Cross-Media Contamination • Aquatic Habitat Degradation <p>General Stormwater Chemistry</p> <ul style="list-style-type: none"> • Fates of Contaminants • Chemistry Basics • Pollutant Transport • Solubility Rules • Metal Pollutant Properties • Organic Pollutant Properties • Partitioning Coefficients • Complexation & Speciation • Cation Exchange • Redox Potential • Acidity (pH) • Alkalinity and Hardness • Conductivity • Chemical Reaction Types • Primary Soil Properties • Vadose Zone Processes <p>Pollutant Chemistry</p> <ul style="list-style-type: none"> • Thermal Pollution • Solids (Turbidity, TS, TSS, TDS, and SSC) • Nanoparticles • Acid/Base Generating Material • Metals (Al, Ag, As, Cd, Cr, Cu, Fe, Pb, Hg, Ni, Pb, Se, Sb, and Zn) • Salts and Other Minerals • Nutrients • Oxygen Demanding Pollutants • Oil and Grease • Antifreeze Glycols • Detergents, Soaps and Other Surfactants • Endocrine Disrupting Chemicals (EDCs) 	<p>Stormwater Management</p> <ul style="list-style-type: none"> • Management Paradigms • Contaminants versus Pollutants • Whole Effluent Toxicity (WET) <p>Tests</p> <ul style="list-style-type: none"> • Toxicity Variations • Construction Stormwater Issues • Stormwater Monitoring • High Risk Contaminants • Contaminant Relationships • Grab versus Composite Sampling • Event Mean Concentrations • Pollutant Loads • Managing First Flush • Sediment Chemistry <p>Stormwater Treatment Processes</p> <ul style="list-style-type: none"> • Coagulation/Flocculation • Precipitation • Sedimentation • Flotation • Laminar Separation • Vortex Separation • Screening • Filtration • Sorption • Temperature Reduction • Acid/Base Neutralization • Volatilization • Disinfection • Biodegradation • Phytodegradation • Soil Processes <p>BMP Effectiveness</p> <ul style="list-style-type: none"> • BMP Selection Criteria • Performance Assessment • International BMP Database • Concentration Reduction • Load Reduction • Efficiency Ratio • Summation of Loads • Effluent Probability Method • Online vs. Offline Facilities • Treatment Trains • Technology Evaluation <p>Resources</p> <ul style="list-style-type: none"> • Zero Valent Iron Pilot Studies
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ATTACHMENT 1C - RIDOT Training 2014/2015

<ul style="list-style-type: none"> • Persistent Organic Pollutants • PAHs • PCBs • Phthalates • Pesticides and Degradates • Pathogens 	<ul style="list-style-type: none"> • Biochar Pilot Studies • Engineered Hyporheic Zones <p>Surface Water and Groundwater Protection</p>
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Intended Audience: Water quality professionals seeking an improved understanding of stormwater chemistry and its applications to stormwater treatment and management. Scientists, engineers, enforcement and field staff, program managers, and stormwater policy makers will benefit from attending.

Education Level: Introductory to intermediate/refreshers. Current research and advanced topics are included to ensure all experience levels benefit from attending.

Course Materials: Course proceedings and reference material.

Credit: 15 PDHs and 1.5 CEUs for completing 15 hours of instruction.

Registration: \$495 (save \$100 per additional person when registering a group: \$395 per guest). [Register online here](#) or by calling us at (800) 385-0783.

Accommodations: [Click here](#) for a map of nearby hotels.

About the Instructor: Erick McWayne has over twenty years of experience in water quality and environmental chemistry. He has conducted numerous water quality investigations and taught over 100 related courses. He currently provides consulting support to water quality projects and teaches courses in storm water management, surface water quality, pollutant chemistry, contaminant transport and fate, and hydrogeology.

ATTACHMENT 1C - RIDOT Training 2014/2015

From: [Votta, Susan \(DOT\)](#)
To: [Hamel, Allison \(DOT\)](#)
Subject: FW: Webinar: Green Infrastructure for Localized Flood Management - December 2nd, 1pm
Date: Monday, December 01, 2014 10:50:32 AM

Allison,
Peter forwarded the email and I'm planning on going down to the TMC to view. If Trevor is available, he will join also.
Sue

Susan Votta
Supervising Landscape Architect
Rhode Island Department of Transportation
Two Capitol Hill
Providence, Rhode Island, 02903
O: 401-222-2023, Ext. 4468
F: 401-222-3006
E: susan.votta@dot.ri.gov
<http://www.dot.ri.gov>
[@ridotnews](http://www.facebook.com/ridotnews)



From: Healey, Peter (DOT)
Sent: Wednesday, November 26, 2014 9:57 AM
To: Capalbo, David (DOT); Capalbo, David (DOT); Ihenacho, Ferdinand (DOT); Penn, Michael (DOT); Brooks, Pamela (DOT); Alsabe, Mazen (DOT); McTaggart, Ivan (DOT); Votta, Susan (DOT); Jones, Trevor (DOT); Hebert, Michael (DOT); Simpson, Barry (DOT); Begin, Jacob (DOT)
Cc: Hamel, Allison (DOT)
Subject: FW: Webinar: Green Infrastructure for Localized Flood Management - December 2nd, 1pm

FYI. Good or bad, right or wrong, this is our future, so all are encourage to attend and become familiar with the subject.

From: Hamel, Allison (DOT)
Sent: Wednesday, November 26, 2014 8:10 AM
To: Healey, Peter (DOT); Zerva, Lambri (DOT); Palumbo, Vincent (DOT); Smith, Robert (DOT); Farhoumand, Kazem (DOT); Baker, Joseph (DOT); Bucci, Joseph (DOT)
Cc: Holland, Emilie (DOT); Johnstone, Erik (DOT); Dahlquist, Michael (DOT)
Subject: Webinar: Green Infrastructure for Localized Flood Management - December 2nd, 1pm

Good morning, all,

I have reserved the TMC for this Green Infrastructure webinar on Tuesday. Please forward invite to those you think appropriate.

The webinar is free – anyone can register and view on their own desktop.

As you know, the Stormwater Design Manual requires the incorporation of green infrastructure (bio-retention, porous concrete sidewalks, wet-vegetated treatment systems (WVTS (i.e. constructed wetlands)), etc. to manage stormwater runoff.

Also, as part of the Consent Decree that RIDOT will be signing with the EPA and DOJ for non-compliance with the RIPDES stormwater permit, the stormdrain retrofit program will be revitalized and more and more and more of these green designs will be constructed, and then need to be maintained.

Please forward/accept the invite.

Thanks,

Allison

Allison Hamel
Environmental Scientist /
Stormwater Program Coordinator
401-222-2023, Ext. 4097
www.dot.ri.gov



NPDES News

NPDES News publicizes announcements and updates related to EPA's National Pollutant Discharge Elimination System (NPDES) Permit Program.

November 25, 2014

Webcast:

Green Infrastructure for Localized Flood Management

December 2nd, 2014

1:00 p.m. - 2:30 p.m. EST

[REGISTER!](#)

Chronic flooding is a critical problem facing many communities. In urban areas impacted by localized or "neighborhood" flood events, green infrastructure practices can absorb rainfall, preventing water from overwhelming pipe networks and pooling in streets or basements. For communities experiencing overbank or riverine flooding, larger networks of green infrastructure can provide extra storage during heavy storm events. In this 90-minute webcast practitioners will cover a range of practices that can help communities build flood resilience, from small scale interventions such as rain gardens and permeable pavement to coordinated open space and floodplain preservation.

This event is part of EPA's [Green Infrastructure Program](#) 2014 Webcast Series sponsored by the Office of Wastewater Management.

Speakers:

- **Lori Cary-Kothera**, Operations Manager, National Oceanic and Atmospheric Administration (NOAA) Office for Coastal Management

ATTACHMENT 1C - RIDOT Training 2014/2015

- **Patekka Bannister**, City of Toledo, Division of Environmental Services
- **Tony V. Demasi**, City Engineer, City of Cuyahoga Falls, OH
- **Kari A. Mackenbach**, URS Corporation, National Green Infrastructure Practice Leader

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For problems with this list, contact npdes_news-Owner@lists.epa.gov

ATTACHMENT 1C - RIDOT Training 2014/2015

From: Hamel, Allison (DOT)
To: [Baker, Joseph \(DOT\)](#); [Hernandez, Wilfred \(DOT\)](#); [Bailey, Lawrence \(DOT\)](#); [Orr, James \(DOT\)](#); [Ricci Sr, Stephen \(DOT\)](#); [Ley, George \(DOT\)](#); [Silva, Jay \(DOT\)](#)
Cc: [Holland, Emilie \(DOT\)](#); [Healey, Peter \(DOT\)](#); [Palumbo, Vincent \(DOT\)](#); [Fish, David \(DOT\)](#)
Subject: Managing Stormwater on Construction and Industrial Sites - Webinar on 10/28/15 at 2pm
Date: Monday, October 26, 2015 2:42:00 PM

FYI – one-hour webinar on Wednesday afternoon for construction site compliance.

If anyone does participate, **PLEASE** let me know so I can document it as part of our Stormwater Education requirements.

If interested, I can get a laptop and projector and we can all view it together (hint, hint) in the Construction conference room (the TMC is booked).

If really really interested, I can get the training room in Maintenance and Resident Engineers and inspectors could come and watch on a rainy Wednesday afternoon.

Please let me know asap.

Thanks!
Allison

Allison Hamel
Environmental Scientist /
Stormwater Program Coordinator
401-222-2023, Ext. 4097
www.dot.ri.gov

From: Storm Water Solutions [mailto:mail@sgc-mkt.com]
Sent: Monday, October 26, 2015 2:14 PM
To: Hamel, Allison (DOT) <allison.hamel@dot.ri.gov>
Subject: Two days left to register for the storm water webinar. Have you registered yet?

Oct. 28, 2015 | 2 p.m. Eastern



PRESENTER:

Participants will earn One Professional Development Hour (PDH)

WEBINAR OVERVIEW:

This webinar will focus on construction and industrial storm water permit compliance. Technical considerations will be discussed, including developing robust, practical storm water programs; identifying the appropriate structural and non-structural Best Management Practices (BMPs); and the ins and outs of discharge monitoring.

Examples of different types of mobile technology and online apps that can be used to more efficiently conduct and track inspections, get alerts about weather, and track multiple sites in a portfolio will be covered. In addition, strategies on how to leverage online apps to keep BMP information and SWPPP maps up to date with ever-changing site conditions will be discussed.

We will also cover the different types of BMPs, from sediment and erosion measures on construction sites to filtration media and oil/water separators in industrial settings. The webinar will address some of the technical aspects of BMP selection and installation depending on potential pollutant type and site conditions. In addition, the iterative process of BMP selection and modification based on inspection, maintenance and sampling results also will be covered.

Lastly, sampling and analytical considerations will be discussed, including field versus laboratory measurements that are time sensitive (such as pH) and best practices for collecting, labeling and preparing samples from planning to execution. The webinar also will cover what happens to samples when they arrive at the laboratory and what can be done to achieve accurate, timely results.

Hosted By *Storm Water Solutions* and *StormwaterONE*

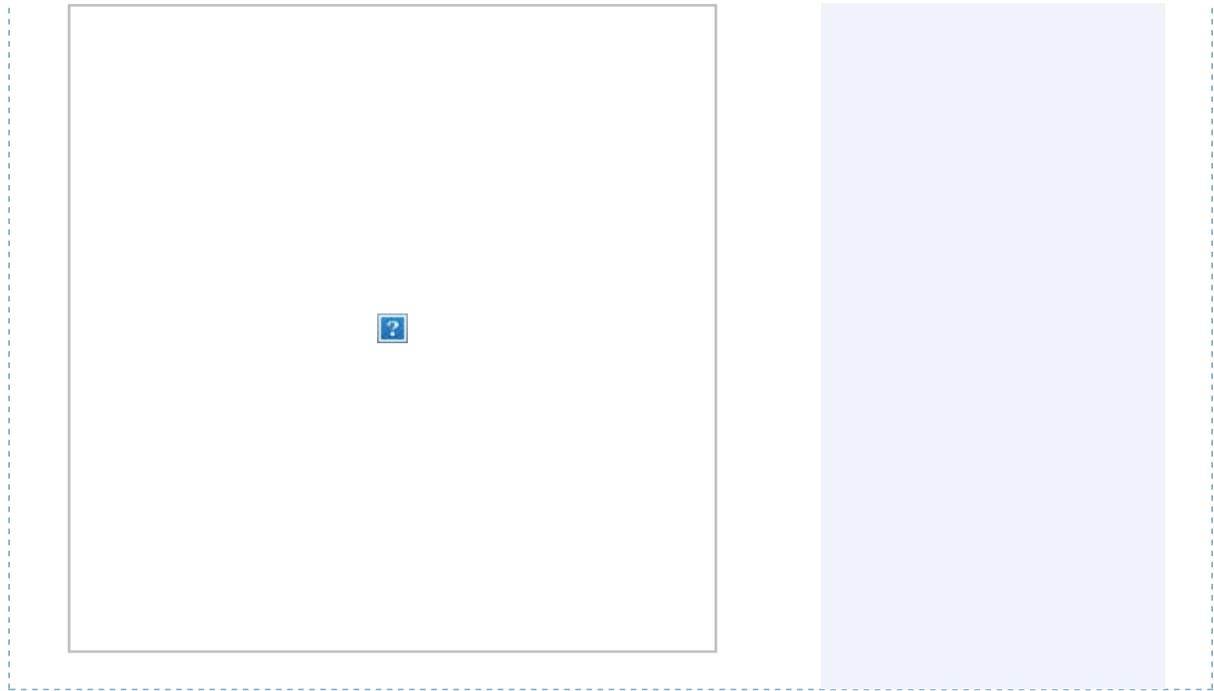
Ryan Janoch



Ryan Janoch, P.E. —

Founder of Mapistry

Ryan Janoch is the founder of Mapistry, an online mapping and permit compliance tool. Janoch has nationwide experience in developing and providing solutions for managing construction, industrial and municipal storm water.



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3030 Salt Creek Lane Arlington Heights, IL 60005

Join us for a live webinar

MS4 Audit Webinar

Thursday, September 25, 2014
1:00 - 2:30 pm Eastern Time



U.S. Department of Transportation
Federal Highway Administration

*Conducted by the U.S. Department of Transportation Federal Highway Administration
and the Center for Environmental Excellence by AASHTO*



NO REGISTRATION FEE

Departments of Transportation (DOTs) are subject to audits of their stormwater management programs by state and federal regulators to assess compliance with their stormwater National Pollutant Discharge Elimination System (NPDES) permits. This webinar will provide DOTs with information compiled by the Center for Environmental Excellence by AASHTO for the "Department of Transportation MS4 Audit Tools" Stormwater Management Briefing Paper.

This webinar will cover:

- **Overview: What is an Audit**
- **The Audit Process: What to Expect**
- **How to Prepare for an Audit**

Our Speakers will include:

KATE KURGAN, American Association of State Highway Transportation Officials
SUSAN JONES, P.E., Federal Highway Administration
G. SCOTT MCGOWEN, P.E., Caltrans

From: [Tassoni, Robert \(DOT\)](#)
To: [Hamel, Allison \(DOT\)](#); [Moore, Garry \(DOT\)](#); [Bucci, Joseph \(DOT\)](#); [Baker, Joseph \(DOT\)](#); "Stiver, John"
Cc: [Maguire, Patrick \(DOT\)](#); [Kelley, Kevin \(DOT\)](#); [Riley, David \(DOT\)](#); [Doyle, Dennis \(DOT\)](#); [Iannuccilli, Don \(DOT\)](#); [Holland, Emilie \(DOT\)](#); [Dahlquist, Michael \(DOT\)](#); [Johnstone, Erik \(DOT\)](#); [Healey, Peter \(DOT\)](#); "J. Cathcart"
Subject: RE: Vortechs Maintenance - MONDAY - October 20th - Tiverton
Date: Tuesday, October 14, 2014 2:08:28 PM
Attachments: [image004.png](#)

Dennis, Pat and David

I discussed the operation with Allison. We decided to have all 3 Vactors report to the Portsmouth Facility 170 Anthony Rd on Monday October 20th @ 9:00am. If you would like to send a Supervisor for the Contech training they can also meet at the same location.

Thanks

From: Hamel, Allison (DOT)
Sent: Tuesday, October 14, 2014 1:19 PM
To: Moore, Garry (DOT); Tassoni, Robert (DOT); Bucci, Joseph (DOT); Baker, Joseph (DOT); Stiver, John
Cc: Maguire, Patrick (DOT); Kelley, Kevin (DOT); Riley, David (DOT); Doyle, Dennis (DOT); Iannuccilli, Don (DOT); Holland, Emilie (DOT); Dahlquist, Michael (DOT); Johnstone, Erik (DOT); Healey, Peter (DOT); J. Cathcart
Subject: Vortechs Maintenance - MONDAY - October 20th - Tiverton

Happy Tuesday, everyone,

John Stiver from Contech Engineered Solutions will be down on MONDAY MONDAY MONDAY, October 20th to field train on Vortech Unit inspection and maintenance (please note it is not Tuesday as previously scheduled).

There will be two units inspected/cleaned

10am: Vortech 9000 on Stafford Road at Glendale

1pm: Vortech 9000 on Old Stafford Road

John would like the following to be on-hand:

"As far as what is needed, I would recommend a stadia rod, or something to determine depth of sediment or better put, depth to sediment, a manhole puller (I have one if we need it,) a vac truck :) and some patience."

I would like to meet with RIDOT maintenance staff at **9:30am at the Portsmouth Facility** for a brief overview of the units, and then we will go out and inspect & clean both units. Staff do not need to attend both sessions.

Please let me know who will be attending what session (will one vactor truck crew (& 'their' truck) be doing both? Or do we send one crew/truck to each session? I leave that up to Maintenance). If there is space available (and interest in attending on short notice), I would like to offer the field training to DPWs, too.

Allison



From: Baker, Joseph (DOT)
Sent: Thursday, October 09, 2014 9:24 AM
To: Tassoni, Robert (DOT); Moore, Garry (DOT); Bucci, Joseph (DOT)
Subject: Fw: Vortechs Maintenance

Fyi
Joseph D. Baker, P.E.

Administrator
Rhode Island Department of Transportation
Division of Highway & Bridge Maintenance

360 Lincoln Avenue
Warwick, RI 02888

401.734.4800
Joseph.Baker@dot.ri.gov

From: Hamel, Allison (DOT)
Sent: Thursday, October 09, 2014 08:52 AM
To: Corrao, Frank (DOT); Baker, Joseph (DOT)
Cc: Iannuccilli, Don (DOT); Healey, Peter (DOT); Holland, Emilie (DOT); Bucci, Joseph (DOT); Smith, Robert (DOT); Palumbo, Vincent (DOT); Farhoumand, Kazem (DOT)
Subject: RE: Vortechs Maintenance

Good morning, everyone,

I am working with the Contech representative to come down for field training of vortech systems maintenance. At this time, we are looking at **TUESDDAY, OCTOBER 21st in Tiverton.**

I need to know how many staff will attend from Maintenance and Construction.

There are two vortech units in Tiverton that we will start with (roughly two hours each), and there is possibility of adding a third unit in the Providence area (no – not the one on Rt 95) if there is sufficient need to train more staff.

I am meeting with Jeff Cathcart later this morning to discuss the possibility of opening this training to municipal DPW staff, but I need to know RIDOT's needs first.

Please email me with staff numbers.

Thanks,
Allison

Allison Hamel

Environmental Scientist / Stormwater Program Coordinator
Rhode Island Department of Transportation
Two Capitol Hill
Providence, Rhode Island 02903
O: 401-222-2023, Ext. 4097
F: 401-222-2086
E: allison.hamel@dot.ri.gov
www.dot.ri.gov
www.facebook.com/ridotnews
@ridotnews



From: Healey, Peter (DOT)
Sent: Wednesday, October 01, 2014 12:41 PM
To: Hamel, Allison (DOT)
Cc: Holland, Emilie (DOT); Dahlquist, Michael (DOT); Baker, Joseph (DOT); Corrao, Frank (DOT); Farhoumand, Kazem (DOT); Smith, Robert (DOT); Palumbo, Vincent (DOT)

Subject: RE: Vortechs Maintenance

Good effort and initiative. Since this gentleman is coming from Maine, can we find a Vortech that is off the road and well out of harms way, and train everybody at once rather than making it a two day affair? RIDOT Maintenance and Construction personnel should be the priority for training.

From: Hamel, Allison (DOT)

Sent: Wednesday, October 01, 2014 9:33 AM

To: J. Cathcart

Cc: Baker, Joseph (DOT); Bucci, Joseph (DOT); Iannuccilli, Don (DOT); Healey, Peter (DOT); Holland, Emilie (DOT); Dahlquist, Michael (DOT)

Subject: FW: Vortechs Maintenance

Good morning, Jeff,

I hope all is well with you.

I am working with Contech Engineered Solutions to come down and train the RIDOT Drainage crews on the maintenance & cleaning of vortech units / swirl chambers.

Right now, we are planning on cleaning two units in Tiverton as a demonstration. Joe Baker agreed that we can invite some DPW folks out, too, so long as we limit the number of people standing on the side of the road. If there is sufficient interest, we may be able to schedule another demonstration in the Warwick area.

Is this something you can arrange? Right now, I am looking to schedule the demonstration(s) for October 20th/21st. I believe it will be all field work (no powerpoint presentations!), though perhaps a quick tailgate session would be a good idea.

Thanks for any help you can provide,
Allison

Allison Hamel

Environmental Scientist / Stormwater Program Coordinator

Rhode Island Department of Transportation

Two Capitol Hill

Providence, Rhode Island 02903

O: 401-222-2023, Ext. 4097

F: 401-222-2086

E: allison.hamel@dot.ri.gov

www.dot.ri.gov

www.facebook.com/ridotnews

@ridotnews



From: Stiver, John [<mailto:JStiver@conteches.com>]
Sent: Friday, September 26, 2014 3:57 PM
To: Hamel, Allison (DOT)
Subject: RE: Vortechs Maintenance

Allison,

Right now that week is open for me. If you want to spread them out, I could just come down twice. Either way is good, but I have Wednesday and Thursday night commitments in Maine, so if there is an overnight, lets look at Monday and Tuesday or Tuesday and Wednesday.

John P. Stiver, P.E., CPSWQ

Stormwater Consultant, New England

CONTECH Engineered Solutions LLC

71 U.S. Route 1, Suite F | Scarborough, ME 04074

Off: 207-892-0348 Fax: 207-885-9825

jstiver@conteches.com

www.ContechES.com

From: Hamel, Allison (DOT) [<mailto:allison.hamel@dot.ri.gov>]
Sent: Friday, September 26, 2014 1:44 PM
To: Stiver, John
Subject: RE: Vortechs Maintenance

John,

Thanks for your assistance – it will be very much appreciated!

Would you be willing to spend two days down here? It would be nice if we could train more than just one garage on cleaning these units.

We have these installed all over the state, so I'm interested in having two demonstrations – one for the East Bay and one for the West Bay.

I am looking at the week of October 20th – that will give me enough time to ask cities & towns if they would like to attend, too.

Many thanks,
Allison

Allison Hamel

Environmental Scientist / Stormwater Program Coordinator

Rhode Island Department of Transportation

Two Capitol Hill

Providence, Rhode Island 02903

O: 401-222-2023, Ext. 4097

F: 401-222-2086

E: allison.hamel@dot.ri.gov

www.dot.ri.gov

www.facebook.com/ridotnews

@ridotnews



From: Stiver, John [<mailto:JStiver@conteches.com>]

Sent: Friday, September 26, 2014 1:28 PM

To: Hamel, Allison (DOT)

Subject: Vortechs Maintenance

Allison,

Thanks for the call today. My contact information is below. I would be more than happy to meet you out on site to discuss and or complete a maintenance for Vortechs Systems. Please let me know when you would like to schedule this and I will make arrangements to be there.

Thanks again!

John P. Stiver, P.E., CPSWQ

Stormwater Consultant, New England

CONTECH Engineered Solutions LLC

71 U.S. Route 1, Suite F | Scarborough, ME 04074

Off: 207-892-0348 Fax: 207-885-9825

jstiver@conteches.com

www.ContechES.com

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ATTACHMENT 1C - RIDOT Training 2014/2015

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ATTACHMENT 1C - RIDOT Training 2014/2015

From: [Webcast Admin](#)
To: [Hamel, Allison \(DOT\)](#)
Subject: Thank you for Attending the Presentation:Managing Storm Water on Construction Sites: Discharge Sampling, Inspecting BMPs, and Maintaining Sediment & Erosion Controls
Date: Thursday, November 20, 2014 10:02:26 AM

Thank you for attending:



Managing Storm Water on Construction Sites: Discharge Sampling, Inspecting BMPs, and Maintaining Sediment & Erosion Controls

Sponsored by:



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Log on to <https://event.webcasts.com/starthere.jsp?ei=1046663>.

Enter the same e-mail address you registered with into the log-in section on the top right corner of your screen. Once the player has opened you should see the title screen and the on demand replay should begin.

Help

The "Help" question mark in the upper right hand corner of the screen provides a menu of items if you are having issues and need guidance. It will also provide a compatibility check of your computer for the web seminar listing any issues of compatibility that could cause you not to be able to participate.

LEGALS

**PUBLIC NOTICE
CITY OF PROVIDENCE
BUILDING BOARD
OF REVIEW**

444 WESTMINSTER STREET, 2ND FLOOR PROVIDENCE, RHODE ISLAND 02903
Notice is hereby given that the Building Board of Review will be in session in the First Floor Conference Room at the Mayor Joseph A. Doorley Municipal Building located at 444 Westminister Street, Providence, Rhode Island on Thursday, February 18, 2016 at 3:00 P.M. when all persons interested will be heard for or against the granting of the following applications seeking variance and/or modifications from certain sections of the State of Rhode Island Building Code: 3:00 P.M.

I. NEW MATTERS:

PAUL GRIESINGER, ANGELL ALLEY ASSOCIATES, LLC: (Owner) Eric Zuena, RA (Applicant) 183 Angell Street, Flat 12, Lot 10, applies for an interior renovation for restaurant use seeking relief from SBC-1, Sections 3411.5 SBC-3 Table 403.1

II. APPEALS:

FEDERAL NATIONAL MORTGAGE ASSOCIATION: (Owner) 150 Courtland Street, Flat 32, Lot 153. The applicant appeals the decision of the Building Official to cause the structure on the parcel to be demolished, RIGL 23-27.3-124.1

THIS MEETING MAY BE CONTINUED FROM DAY TO DAY AND TIME TO TIME AT THE DISCRETION OF THE BUILDING BOARD OF REVIEW.

THIS MEETING IS ACCESSIBLE TO ALL PERSONS. INDIVIDUALS REQUESTING INTERPRETER SERVICES MUST NOTIFY THE OFFICE OF NEIGHBORHOOD SERVICES AT (401) 421-7768, 48 HOURS IN ADVANCE OF THE HEARING DATE.

ESTA REUNION PUEDE SER CONTINUADA EN CUALQUIER MOMENTO BAJO LA DISCRECION DE LA JUNTA DE REVISIONES DE EDIFICIO.

LA INFORMACION DE ESTA REUNION ESTA DISPONIBLE PARA TODAS LAS PERSONAS E INDIVIDUOS QUE REQUIERAN SERVICIOS DE INTERPRETE. LLAME A LA OFICINA DE SERVICIOS VEICINDALES AL (401) 421-7768, POR LO MEMOS 48 HORAS ANTES DE SU FECHA DE JUICIO.

Jeffrey L. Lykins, RA Director (401) 680-5777
jlykins@providencejournal.com
FREE PARKING AVAILABLE AT BUILDING OFFICE

**BOARD OF LICENSES
CITY OF PROVIDENCE
ROOM 112 - CITY HALL
NEW MOTOR VEHICLE REPAIR**

Authentic City Motors LLC
125 Plainfield Street
NEW MOTOR VEHICLE REPAIR
Plainfield Auto Sales Inc.
292 Plainfield Street
NEW MOTOR VEHICLE REPAIR
Petro Mobil, Inc.
360 Plainfield Street
Transfer CLASS BV With NEW BX
Mediterraneo Corp
134 Atwells Avenue
TO Joest, LLC
134 Atwells Avenue

The Board of Licenses will be in its office on Wednesday, February 17, 2016 at 1:00 PM, in Room 112, City Hall, at which time and place all owners of the land within 200 feet of these locations may file their objections to the granting of these licenses. Remonstrance must be filed on or before the time of the Hearing.
BY ORDER OF THE BOARD

Juan M. Pichardo,
Chairman & Secretary

NOTICE OF MORTGAGEE'S SALE

19-21 Lynch Street
Providence, Rhode Island
Assessor's Mblu: 951/5831
Will be sold, subject to any and all prior liens and encumbrances, at public auction on February 22, 2016 at 12:00 PM Local Time, on the premises by virtue of the Power of Sale contained in the certain Mortgage Deed made and executed by Gloria Castillo and Virginia Castillo dated March 24, 2006 and recorded in Book 7948 at Page 24, et seq., with the Records of Land Evidence of the City of Providence, County of Providence, State of Rhode Island, the conditions of said Mortgage Deed having been broken.

TEN THOUSAND DOLLARS (\$10,000.00) down payment in cash, bank check or certified check at time of sale; other terms will be announced at time of sale.

Marinosci Law Group, P.C.
275 West Natick Road
Suite 500
Warwick, RI 02886
Attorney for the present Holder of the Mortgage
MLG File # MLG 12-16375
A-4557090 02/01/2016, 02/08/2016, 02/15/2016

MORTGAGEE'S SALE

72 Harding Avenue
Johnston, Rhode Island
Will be sold at public auction on February 23, 2016 at 10:00 a.m. local time on the premises by virtue of the power of sale contained in a mortgage made and executed by Joseph Conti, Jr. and Marie O. Pislowski, dated November 6,

**NOTICE OF AVAILABILITY
2014/2015 DRAFT ANNUAL REPORT OF THE RIDOT PHASE II STORM WATER MANAGEMENT PROGRAM PLAN**

The Director of the Rhode Island Department of Transportation (RIDOT) hereby gives public notice that the Draft 2014 / 2015 RIDOT Storm Water Management Program Plan Annual Report, prepared in accordance with the Rhode Island Pollutant Discharge Elimination System (RIDDES) Program, is available for public inspection, review, and comment.

For further information and/or a copy of the document, please visit DOT's Storm Water website at: <http://www.dot.ri.gov/about/stormwater.php> or contact Allison Hamel at: RIDOT, Natural Resources Unit, 2 Capitol Hill, Rm 368, Providence, RI 02903 (401) 222-2023, Ext. 4097 ahamel@dot.ri.gov

The documents may be reviewed at the Rhode Island Department of Transportation, Two Capitol Hill, Providence, Rhode Island from FEBRUARY 8, 2016 to MARCH 8, 2016 between the hours of 8:00 AM and 4:00 PM Monday through Friday, by appointment only.

PUBLIC HEARING:

A public hearing on the Annual Report or Revised Plan will be held if RIDOT receives such requests from twenty-five (25) people, a government agency or subdivision, or an association having not less than twenty-five (25) members. If a public hearing is to be held, a public notice will be published announcing the date, time, place of such hearing, and the deadline for submitting written comments.

PUBLIC COMMENT PERIOD: (FEBRUARY 8, 2016 TO MARCH 8, 2016)

All comments on the documents should be submitted in writing or via email post-marked no later than 4:00 PM on MARCH 8, 2016. If, during the public comment period, significant new questions are raised concerning the document, DOT may require a new draft or may reopen the public comment period. A public notice will be issued for any of these actions.

FINAL DECISION AND APPEALS:

Following the close of the comment period, and after a public hearing, if such hearing is held, the Director will issue a final decision and forward a copy of the final documents to RIDEM and each person who has submitted written comments or requested notice.

MORTGAGEE'S SALE

34 Concannon Street
Providence, RI
Assessor's Plat: 102
Assessor's Lot: 126

Will be sold at public auction, subject to all taxes, assessments, mortgages, and other encumbrances which may constitute a lien, on February 16, 2016 at 11:00 a.m., Local Time, on the premises described in the mortgage, by virtue of the power of sale contained in a Mortgage made by Elizabeth R. Castro and Nicanor Camacho dated April 24, 2006 and recorded in Book 8011 at Page 52 in the Office of Land Evidence Records of the City of Providence, State of Rhode Island the conditions of said mortgage having been broken.

Deposit of Five Thousand and 00/100 (\$5,000.00) Dollars in cash, certified or bank check is required at time and place of sale. Other terms and conditions will be announced at the sale.

By order of the holder of the mortgage, who hereby gives notice of its intention to bid at said sale or any postponement or adjournment thereof.

Brennan, Recupero, Cascone, Scungio, & McAllister, LLP
Attorney for the holder of the Mortgage
362 Broadway
Providence, RI 02909
(401) 453-2300

MORTGAGEE'S SALE ASSESSOR'S

PLAT# 355 AND LOT# 99
231 Longmeadow Avenue
Warwick, Rhode Island

The premises described in the mortgage will be sold subject to all encumbrances and prior liens on February 22, 2016 at 2:00 pm on the premises by virtue of the Power of Sale in said mortgage made by Lisa Bajakian, dated July 14, 2006, and recorded in Book 6255 at Page 113, et seq. of the Warwick Land Evidence Records, the conditions of said mortgage having been broken.

\$5,000.00 in cash, bank check or certified check at time of sale is required to bid; other terms will be announced at time of sale.

Bendett & McHugh, P.C.
270 Farmington Avenue,
Ste. 151
Farmington, CT 06032
Attorney for the present Holder of the Mortgage

MORTGAGEE'S SALE

109-111 Mitchell Street,
Providence, RI
Plat 49, Lot 58

The premises described in the mortgage will be sold subject to all encumbrances and prior liens on February 22, 2016 at 12:00 p.m. on the premises, by virtue of the power of sale contained in a mortgage by Julian A. San-

MORTGAGEE'S NOTICE OF SALE

545 DOUGLAS TURNPIKE,
BURRILLVILLE, RI 02830

The premises described in the mortgage will be sold subject to all encumbrances and prior liens on February 29, 2016 at 10:00 AM on the premises, by virtue of the power of sale contained in a mortgage by Cynthia Paille and Darrell Paille dated July 26, 2012 and recorded in the Burrillville Land Evidence Records in Book 815 Page 225, the conditions of said mortgage having been broken.

TERMS OF SALE:

A deposit of FIVE THOUSAND DOLLARS AND 00 CENTS (\$5,000.00) in the form of a certified check, bank treasurer's check or money order will be required to be delivered at or before the time the bid is offered. The description of the premises contained in said mortgage shall control in the event of an error in this publication. Other terms will be announced at the sale.

ORLANDS MORAN PLLC
Attorney for the Present Holder of the Mortgage
PO Box 540540
Waltham, MA 02454
Phone: (781) 790-7800
15-012589

NOTICE OF MORTGAGEE'S SALE

223 C High Street
Westerly, Rhode Island
Assessor's Mblu:

3711107 53//

Will be sold, subject to any and all prior liens and encumbrances, at public auction on February 22, 2016 at 3:00 PM Local Time, on the premises by virtue of the Power of Sale contained in the certain Mortgage Deed made and executed by Sandra E. Barone dated August 17, 2010 and recorded in Book 1871 at Page 381, et seq. with the Records of Land Evidence of the Town of Westerly, County of Washington, State of Rhode Island, the conditions of said Mortgage Deed having been broken.

TEN THOUSAND DOLLARS (\$10,000.00) down payment in cash, bank check or certified check at time of sale; other terms will be announced at time of sale.

Marinosci Law Group, P.C.
275 West Natick Road,
Suite 500
Warwick, RI 02886
Attorney for the present Holder of the Mortgage MLG File # MLG 14-09087 A-4557082 02/01/2016, 02/08/2016, 02/15/2016

MORTGAGEE'S SALE

39 Camden Avenue
Providence, Rhode Island
Will be sold at public auction on February 16, 2016 at 10:00 a.m. local time on the premises by virtue of the pow-

**BOARD OF LICENSES
CITY OF PROVIDENCE
ROOM 112 - CITY HALL
NEW CLASS BV FULL LICENSE WITH NEW BX**

Buena Vista Event & Planning, LLC 549B Broad Street
TRANSFER CLASS A LICENSE
JVM Enterprises Inc.
344 Manton Avenue
TO JVM Enterprises Inc.
307-309 Manton Avenue
NEW MOTOR VEHICLE REPAIR
777 Auto Parts and Repair, LLC 205 Union Avenue
NEW MOTOR VEHICLE REPAIR
Emmanuel's Importunes, LLC 1067 Elmwood Avenue

The Board of Licenses will be in its office on Wednesday, February 24, 2016 at 1:00 PM, in Room 112, City Hall, at which time and place all owners of the land within 200 feet of these locations may file their objections to the granting of these licenses. Remonstrance must be filed on or before the time of the Hearing.
BY ORDER OF THE BOARD

Juan M. Pichardo
Chairman & Secretary

MORTGAGEE'S SALE ASSESSOR'S

PLAT# 87 AND LOT# 70
11 Manning Court
Coventry, Rhode Island

The premises described in the mortgage will be sold subject to all encumbrances and prior liens on February 22, 2016 at 1:00 pm on the premises by virtue of the Power of Sale in said mortgage made by Eugene Monteiro, dated August 28, 2008, and recorded in Book 1814 at Page 247, et seq. of the Coventry Land Evidence Records, as affected by a loan modification recorded in Book 1986, Page 219, the conditions of said mortgage having been broken.

\$5,000.00 in cash, bank check or certified check at time of sale is required to bid; other terms will be announced at time of sale.

Bendett & McHugh, P.C.
270 Farmington Avenue
Ste. 151
Farmington, CT 06032
Attorney for the present Holder of the Mortgage

MORTGAGEE'S SALE

17-19 WASHBURN AVE
EAST PROVIDENCE, RI
Map 403, Block 21, Lot 7

The premises described in the mortgage will be sold subject to all encumbrances and prior liens on February 22, 2016 at 11:00 a.m. on the premises, by virtue of the power of sale contained in a mortgage by Kevin Dilibero and Edward Dilibero dated June 15, 2006 and recorded in the EAST PROVIDENCE

MORTGAGEE'S SA

ASSESSOR'S PLAT
83-2 AND LOT# 283
304 Holly Road
South Kingstown,
Rhode Island

The premises described mortgage will be sold : to all encumbrances an liens on February 22, 2 12:00 pm on the premi virtue of the Power of said mortgage made by R. Reilly Jr., dated Sep 11, 2008, and recor Book L1330 at Page seq. of the South Kin Land Evidence Recor conditions of said m having been broken: \$5,000.00 in cash, banl or certified check at sale is required to bid terms will be annou time of sale.

Bendett & McHuy,
270 Farmington A
Farmington, CT
Attorney for the M
Holder of the M

NOTICE OF FILING

The Interstate Na Company ("Interstate") gives notice that on 28, 2016, Interstate fi the Rhode Island Publi es Commission (the mission") proposed rates for its high-spe service between Poir and Block Island (Do 4598). These rates w only to Interstate's discretionary high-spe passenger service Point Judith and Bloc and will not apply to round conventional r and freight ferry serv Interstate's high spe service between New Block Island. In get proposed revised rat proved, would incre speed ferry ticket i \$1.00 each way. O posed changes are se the proposed rates. The Commission ca the proposed rates i ses to do so. Howe state is asking that rates be allowed to e ffect on May 1, 2016 suspension or hearin A copy of the filing ble at the offices of l attorney, Michael R. 21 Dryden Lane, 6721, Providence, I 6721, and at the P ifies Commission, son Boulevard, Wa 02888, and may be by the public durin hours. The filing c accessed on the Co website at <http://www.eventsactions/doc/ge.html>. This notice pursuant to the Co Rules of Practice : dure.

Interstate

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NOTICE OF AVAILABILITY 2014/2015 DRAFT ANNUAL REPORT OF THE RIDOT PHASE II STORM WATER MANAGEMENT PROGRAM PLAN The Director of the Rhode Island Department of Transportation (RIDOT) hereby gives public notice that the Draft 2014 / 2015 RIDOT Storm Water Management Program Plan Annual Report, prepared in accordance with the Rhode Island Pollutant Discharge Elimination System (RIPDES) Program, is available for public inspection, review, and comment. For further information and/or a copy of the document, please visit DOT's Storm Water website at: <http://www.dot.ri.gov/about/stormwater.php> or contact Allison Hamel at: RIDOT, Natural Resources Unit, 2 Capitol Hill, Rm 368, Providence, RI 02903 (401) 222-2023, Ext: 4097 ahamel@dot.ri.gov The documents may be reviewed at the Rhode Island Department of Transportation, Two Capitol Hill, Providence, Rhode Island from FEBRUARY 8, 2016 to MARCH 8, 2016 between the hours of 8:00 AM and 4:00 PM Monday through Friday, by appointment only. PUBLIC HEARING: A public hearing on the Annual Report or Revised Plan will be held if RIDOT receives such requests from twenty-five (25) people, a government agency or subdivision, or an association having not less than twenty-five (25) members. If a public hearing is to be held, a public notice will be published announcing the date, time, place of such hearing, and the deadline for submitting written comments. PUBLIC COMMENT PERIOD: (FEBRUARY 8, 2016 to MARCH 8, 2016) All comments on the documents should be submitted in writing or via email post-marked no later than 4:00 PM on MARCH 8, 2016. If, during the public comment period, significant new questions are raised concerning the document, DOT may require a new draft or may reopen the public comment period. A public notice will be issued for any of these actions. FINAL DECISION AND APPEALS: Following the close of the comment period, and after a public hearing, if such hearing is held, the Director will issue a final decision and forward a copy of the final documents to RIDEM and each person who has submitted written comments or requested notice.

Published: 2/8/2016



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Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

December 8, 2015

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Zheng Da Ziang & Dan Qin Lin
560 South Main Street
Pascoag, RI 02859

NOTICE

Re: Illicit and/or Unauthorized Drainage Connections or Discharges to RIDOT Drainage System located at:
164-170 Pascoag Main Street, Pascoag, RI (Plat 175/Lot 24)

Dear Property Owner:

The purpose of this Notice is to inform you of suspected illicit and/or unauthorized drainage connections to the Rhode Island Department of Transportation's drainage system from your property.

During the preliminary design of the Route 107 project, a RIDOT contractor was inspecting the State drainage system with video inspection equipment and documented two non-RIDOT pipe connections at **164-170 Pascoag Main Street, Pascoag, RI (Plat 175/Lot 24)**. One connection is directly into the State's outfall pipe. The other discharge (PVC pipe) is adjacent to the State's outfall pipe (photos attached).

Please be advised that RIDOT is preparing to line the first pipe, that is directly into the State's outfall pipe, with a Cure In Place Pipe. At the time of the lining, unauthorized and/or illicit connections will not be reconnected. There is no state work proposed that would affect the second pipe, adjacent to the State's outfall pipe.

This unauthorized connection appears to be in violation of the Rhode Island General Law § 46-12-5 – *Water Pollution*, Rhode Island General Law § 24-8-33 - *Connection into drainage system*, and the Town of Burrillville Ordinance *ARTICLE VI. - PROHIBITION OF ILLICIT DISCHARGES* (attached for your reference). RIDOT strictly prohibits unauthorized connections and discharges into the State's drainage system. This prohibition expressly includes, without limitation, connections made in the past without first obtaining written authorization from the Department, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. Any such connection or discharge must be either permitted by RIDOT or immediately disconnected/sealed.

You have forty-five (45) days from the date of this letter to provide written notification to: (1) apply for a tie-in permit; (2) propose a schedule for the removal of the discharge; or (3) produce a copy of a valid, pre-existing drainage tie-in permit. Should no response be received within 45-days, the matter will be forwarded to the Rhode Island Department of Environmental Management, Office of Compliance and Inspection for enforcement. This may include fines or penalties, authorized by the Federal Clean Water Act, of up to \$25,000 for each day during

To: Zheng Da Ziang & Dan Qin Lin
From: J. Bucci
Subject: Connection to State Drainage System
Date: 12/08/15

ATTACHMENT 3A - RIDOT IDDE

which the violation occurs. A form has been attached for your convenience.

Please be aware that applying for a tie-in permit does not guarantee being granted one and a review will be performed in order to determine if the connection or discharge should be permitted. At a minimum, **RIDOT will require proof that the connection is either solely stormwater or an allowable non-stormwater discharge. Any costs associated with producing acceptable documentation are the sole responsibility of the applicant.** The application form may be found at:

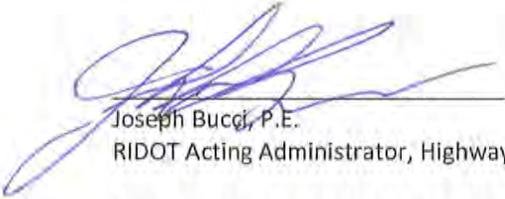
http://www.dot.ri.gov/documents/doingbusiness/permits/PAPA_Application.pdf

In the case of a pre-existing permit, RIDOT will consider maintaining the connection if the property owner can provide proof that the connection was made in accordance with the permit. Unless otherwise expressly stated in RIDOT's written authorization, all discharges entering the State's drainage system must be comprised solely of stormwater, and/or an allowable non-stormwater discharge as defined under the Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Stormwater Discharge from Small Municipal Separate Storm Sewer Systems. If the connection to the state drainage system is grey water or sewage, Federal and State laws prohibit the discharge from continuing.

Thank you for your anticipated cooperation in resolving this matter. If you have any questions, please contact Joseph Bucci, P.E., Deputy Administrator, at 401-734-4805 at your earliest convenience within the 45-day period. Please mail correspondence to:

Joseph Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888

Sincerely,



Joseph Bucci, P.E.
RIDOT Acting Administrator, Highway and Bridge Maintenance Division

Attachments: photo documentation of connection; Applicable State & local laws;
Property Owner Response Form

cc: RIDOT: Alвити, Baker, Bucci, Hamel, Healey, Jacques, Palumbo (all w/o attachments)
RIDEM: Patrick Hogan, Office of Compliance & Inspection; David Chopy, Office of Compliance & Inspection;
Eric Beck, RIPDES Permitting Program (w/attachments)
Town of Burrillville Department of Public Works: Jeffrey McCormick (Director) (w/attachments)
Zheng Da Ziang & Dan Qin Lin (regular mail)

Property: **164-170 Pascoag Main Street, Pascoag, RI**
Owners: Zheng Da Ziang & Dan Qin Lin, 560 South Main Street, Pascoag, RI 02859

Rec'd 1/19/16



Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

**PROPERTY OWNER RESPONSE
TO NOTICE OF POTENTIAL CONNECTION
TO RIDOT DRAINAGE SYSTEM**

Property Owner: (Eddy) DA XIANG ZHENG

Property Address: 164-172 Pascoag main st
Pascoag R2 02859 Assessor's Plat: Lot:

For this property, the property owner will:

Apply for a tie-in permit by submitting a Physical Alteration Permit Application
Comment: _____

Propose a schedule for the removal of the discharge
Comment: _____

Produce a copy of a valid, pre-existing drainage tie-in permit
Comment: _____

I believe there is no connection, however, I understand if there is a connection found at the time of Construction, I will be responsible for expedited action to resolve any issues.
Comment: _____

Property owner -- please sign & print name, and date

Signed:

Date: 1/15/16

Print Name: DA XIANG ZHENG



Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

December 8, 2015

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Kathryn J. Cohan & James McNulty
485 Pascoag Main Street
P.O. Box 28
Pascoag, RI 02859

NOTICE

Re: Illicit and/or Unauthorized Drainage Connection or Discharge to RIDOT Drainage System located at:
485 Pascoag Main Street, Pascoag, RI (Plat 158/Lot 25)

Dear Property Owner:

The purpose of this Notice is to inform you of a suspected illicit and/or unauthorized drainage connection to the Rhode Island Department of Transportation's drainage system from your property.

During the emergency repairs to the RIDOT roadway culvert a non-RIDOT pipe connection was documented at **485 Pascoag Main Street, Pascoag, RI (Plat 158/Lot 25)**. The discharge pipe is connected to the waterway at the upstream end of the culvert that passes under Route 107(photos attached).

Please be advised that RIDOT is preparing to replace the culvert, but the upstream entrance will be relocated. The relocation will bury the end of this discharge pipe. At the time of replacement, unauthorized and/or illicit connections will not be reconnected.

This unauthorized connection appears to be in violation of the Rhode Island General Law § 46-12-5 – *Water Pollution*, Rhode Island General Law § 24-8-33 - *Connection into drainage system*, and the Town of Burrillville Ordinance *ARTICLE VI. - PROHIBITION OF ILLICIT DISCHARGES* (attached for your reference). RIDOT strictly prohibits unauthorized connections and discharges into the State's drainage system. This prohibition expressly includes, without limitation, connections made in the past without first obtaining written authorization from the Department, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. Any such connection or discharge must be either permitted by RIDOT or immediately disconnected/sealed.

You have forty-five (45) days from the date of this letter to provide written notification to: (1) apply for a tie-in permit; (2) propose a schedule for the removal of the discharge; or (3) produce a copy of a valid, pre-existing drainage tie-in permit. Should no response be received within 45-days, the matter will be forwarded to the Rhode Island Department of Environmental Management, Office of Compliance and Inspection for enforcement. This

To: Kathryn J. Cohan & James McNulty
From: J. Bucci ATTACHMENT 3A - RIDOT IDDE
Subject: Connection to State Drainage System
Date: 12/08/15

may include fines or penalties, authorized by the Federal Clean Water Act, of up to \$25,000 for each day during which the violation occurs. A form has been attached for your convenience.

Please be aware that applying for a tie-in permit does not guarantee being granted one and a review will be performed in order to determine if the connection or discharge should be permitted. At a minimum, **RIDOT will require proof that the connection is either solely stormwater or an allowable non-stormwater discharge.** Any costs associated with producing acceptable documentation are the sole responsibility of the applicant. The application form may be found at:

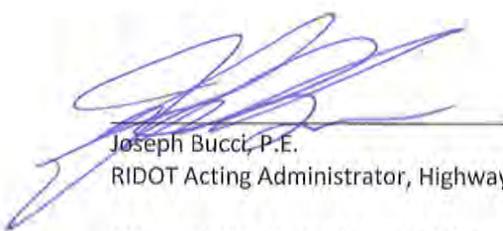
http://www.dot.ri.gov/documents/doingbusiness/permits/PAPA_Application.pdf

In the case of a pre-existing permit, RIDOT will consider maintaining the connection if the property owner can provide proof that the connection was made in accordance with the permit. Unless otherwise expressly stated in RIDOT's written authorization, all discharges entering the State's drainage system must be comprised solely of stormwater, and/or an allowable non-stormwater discharge as defined under the Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Stormwater Discharge from Small Municipal Separate Storm Sewer Systems. If the connection to the state drainage system is grey water or sewage, Federal and State laws prohibit the discharge from continuing.

Thank you for your anticipated cooperation in resolving this matter. If you have any questions, please contact Joseph Bucci, P.E., Acting Administrator, at 401-734-4805 at your earliest convenience within the 45-day period. Please mail correspondence to:

Joseph Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888

Sincerely,



Joseph Bucci, P.E.
RIDOT Acting Administrator, Highway and Bridge Maintenance Division

Attachments: photo documentation of connection; Applicable State & local laws;
Property Owner Response Form

cc: RIDOT: Alviti, Bucci, Fish, Hamel, Healey, Jacques, Palumbo (all w/o attachments)
RIDEM: Patrick Hogan, Office of Compliance & Inspection; David Choppy, Office of Compliance & Inspection;
Eric Beck, RIPDES Permitting Program (w/attachments)
Town of Burrillville Department of Public Works: Jeffrey McCormick (Director) (w/attachments)
Kathryn J. Cohan & James McNulty (regular mail)

Property: **485 Pascoag Main Street, Pascoag, RI (Plat 158/Lot 25)**

Owner: Kathryn J. Cohan & James McNulty, 485 Pascoag Main Street, P.O. Box 28, Pascoag, RI 0285902859



Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

January 21, 2016

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Kathryn J. Cohan & James McNulty
485 Main Street
Pascoag, RI 02859

NOTICE

Re: Illicit and/or Unauthorized Drainage Connection or Discharge to RIDOT Drainage System located at:
485 Main Street, Pascoag, RI (Plat 158/Lot 25)

Dear Property Owner:

The purpose of this Notice is to inform you of a suspected illicit and/or unauthorized drainage connection to the Rhode Island Department of Transportation's drainage system from your property.

During the emergency repairs to the RIDOT roadway culvert a non-RIDOT pipe connection was documented at **485 Main Street, Pascoag, RI (Plat 158/Lot 25)**. The discharge pipe is connected to the waterway at the upstream end of the culvert that passes under Route 107 (photos attached).

Please be advised that RIDOT is preparing to replace the culvert, but the upstream entrance will be relocated. The relocation will bury the end of this discharge pipe. At the time of replacement, unauthorized and/or illicit connections will not be reconnected.

This unauthorized connection appears to be in violation of the Rhode Island General Law § 46-12-5 – *Water Pollution*, Rhode Island General Law § 24-8-33 - *Connection into drainage system*, and the Town of Burrillville Ordinance *ARTICLE VI. - PROHIBITION OF ILLICIT DISCHARGES* (attached for your reference). RIDOT strictly prohibits unauthorized connections and discharges into the State's drainage system. This prohibition expressly includes, without limitation, connections made in the past without first obtaining written authorization from the Department, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. Any such connection or discharge must be either permitted by RIDOT or immediately disconnected/sealed.

You have forty-five (45) days from the date of this letter to provide written notification to: (1) apply for a tie-in permit; (2) propose a schedule for the removal of the discharge; or (3) produce a copy of a valid, pre-existing drainage tie-in permit. Should no response be received within 45-days, the matter will be forwarded to the Rhode Island Department of Environmental Management, Office of Compliance and Inspection for enforcement. This may include fines or penalties, authorized by the Federal Clean Water Act, of up to \$25,000 for each day during

which the violation occurs. A form has been attached for your convenience.

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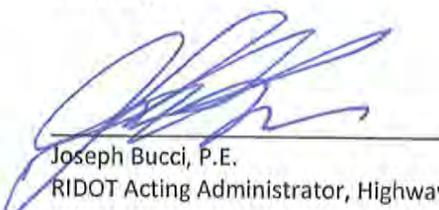
http://www.dot.ri.gov/documents/doingbusiness/permits/PAPA_Application.pdf

In the case of a pre-existing permit, RIDOT will consider maintaining the connection if the property owner can provide proof that the connection was made in accordance with the permit. Unless otherwise expressly stated in RIDOT's written authorization, all discharges entering the State's drainage system must be comprised solely of stormwater, and/or an allowable non-stormwater discharge as defined under the Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Stormwater Discharge from Small Municipal Separate Storm Sewer Systems. If the connection to the state drainage system is grey water or sewage, Federal and State laws prohibit the discharge from continuing.

Thank you for your anticipated cooperation in resolving this matter. If you have any questions, please contact Joseph Bucci, P.E., Acting Administrator, at 401-734-4805 at your earliest convenience within the 45-day period. Please mail correspondence to:

Joseph Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888

Sincerely,



Joseph Bucci, P.E.
RIDOT Acting Administrator, Highway and Bridge Maintenance Division

Attachments: photo documentation of connection; Applicable State & local laws;
Property Owner Response Form

cc: RIDOT: Alviti, Bucci, Fish, Hamel, Healey, Ouellette, Jacques, Palumbo (all w/o attachments)
RIDEM: Patrick Hogan, Office of Compliance & Inspection; David Chopy, Office of Compliance & Inspection;
Eric Beck, RIPDES Permitting Program (w/attachments)
Town of Burrillville Department of Public Works: Jeffrey McCormick (Director) (w/attachments)
Kathryn J. Cohan & James McNulty (regular mail)

Property: **485 Main Street, Pascoag, RI (Plat 158/Lot 25)**
Owner: Kathryn J. Cohan & James McNulty, 485 Main Street, Pascoag, RI 02859
The discharge pipe connected to the waterway at the upstream end of the culvert.



**RI DEM - Office of Compliance and Inspection
Complaint Form**



Complaint ID: 3890

Time Received: 11:10AM

Date Received: 08/14/2014

Program: OCI-OWTS

Case:

Received By: ELISACAMPOS

Complainant Info:

Facility Info:

Name: ANONYMOUS

Fac/Site: 228 PUTNAM PIKE

Title/Org:

Street: 228 PUTNAM PIKE

Address:

Street2:

City/St: ,

City: JOHNSTON

Email:

Plat: Lot:

Phone:

Pole #:

Notify: N

Contractor:

Repeat: N

**Alias/Log
Number:**

**UST
Number:**

**Foxpro
Permit #:**

Nature of Complaint:

Cesspool is tied in with the state drain.

Directions:



Map-Lot-Unit : 41//31//
 Location: 228 PUTNAM AVE
 Owner Name: FIRST EVERGREEN PROPERTIES LLC
 Account Number: 06-3525-00

Parcel Value

Item	Assessed Value
Buildings	244,300
Xtra Bldg Features	0
Outbuildings	5,900
Land	130,900
Total:	381,100

Owner of Record

FIRST EVERGREEN PROPERTIES LLC

Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
FIRST EVERGREEN PROPERTIES LLC	2190/ 44	2/3/2012	0
ASH RONALD M JR	724/ 164	11/12/1998	150,000
APEX MORTGAGE CORP	720/ 201	10/27/1998	125,000
CLINTON SUPPLY CORP	92/ 28	3/10/1960	0

Land Line Valuation

Size	Zone	Assessed Value
0.36 AC	B2	130,900

Construction Detail

Building # 1	MODEL Commercial	Grade Average
STYLE Commercial	Occupancy 3	Roof Cover Tar & Gravel
Stories: 1	Interior Floor 1 Carpet	Interior Floor 2 Concr-Finished
Interior Wall 2 Minim/Masonry	Heating Type Forced Air-Duc	Bldg Use LRG BUSNSS MDL-94
Heating Fuel Oil	Heat/AC NONE	Frame Type WOOD FRAME
Total Bedrms 00	Ceiling/Wall SUS-CEIL & WL	Wall Height 9
Baths/Plumbing AVERAGE		

Building Valuation

Living Area: 6,648 square feet	Year Built: 1957	Depreciation: 34%
Building Value: 244,300		

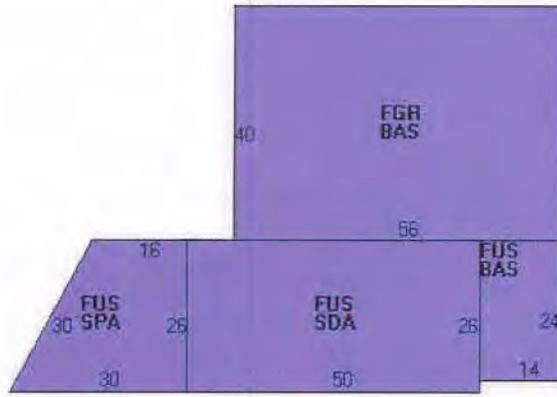
Extra Features

Code	Description	Units
	No Extra Building Features	

Outbuildings

Code	Description	Units
PAV1	PAVING-ASPHALT	4000 S.F.
SGN2	DOUBLE SIDED	30 S.F.&HGT
FN3	FENCE-6' CHAIN	140 L.F.

Building Sketch



Subarea Summary

Code	Description	Gross Area	Living Area
BAS	First Floor	2576	2576
FGR	Garage	2240	0
FUS	Upper Story, Finished	2234	2234
SDA	Store Display Area	1300	1300
SPA	Service Production Area	598	538



Corporations Division

Business Entity Summary

ID Number: 000982188

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Summary for: **FIRST EVERGREEN PROPERTIES LLC**

The exact name of the Domestic Limited Liability Company (LLC): **FIRST EVERGREEN PROPERTIES LLC**

Entity type: Domestic Limited Liability Company (LLC)

Identification Number: 000982188

Date of Organization in Massachusetts:
07-15-2008

Last date certain:

The location or address where the records are maintained (A PO box is not a valid location or address):

Address: 36 SUMMER ST SS3-2

City or town, State, Zip code, NATICK, MA 01760 USA
Country:

The name and address of the Resident Agent:

Name: SUSAN T. RICHARDS

Address: 36 SUMMER ST.

City or town, State, Zip code, NATICK, MA 01760 USA
Country:

The name and business address of each Manager:

Title	Individual name	Address
MANAGER	ROBERT LAVELLE	36 SUMMER ST SS3-2 NATICK, MA 01760 USA
MANAGER	DAVID R. KELLER	36 SUMMER ST SS3-2 NATICK, MA 01760 USA
MANAGER	SUSAN M. WASSMUS	36 SUMMER ST SS3-2 NATICK, MA 01760 USA
MANAGER	MICHAEL O'RIORDAN	36 SUMMER ST SS3-2 NATICK, MA 01760 USA

In addition to the manager(s), the name and business address of the person(s) authorized to execute documents to be filed with the Corporations Division:

Title	Individual name	Address
SOC SIGNATORY	DAVID R. KELLER	36 SUMMER ST SS3-2 NATICK, MA 01760 USA
SOC SIGNATORY	JOHN R. HEERWAGEN	6 MAIN ST. NATICK, MA 01760 USA

The name and business address of the person(s) authorized to execute, acknowledge, deliver, and record any recordable instrument purporting to affect an interest in real property:

Title	Individual name	Address
REAL PROPERTY	SUSAN M. WASSMUS	36 SUMMER ST SS3-2 NATICK, MA 01760 USA
REAL PROPERTY	ROBERT F. LAVELLE	36 SUMMER ST SS3-2 NATICK, MA 01760 USA
REAL PROPERTY	MICHAEL O'RIORDAN	36 SUMMER ST SS3-2 NATICK, MA 01760 USA
REAL PROPERTY	DAVID R. KELLER	36 SUMMER ST SS3-2 NATICK, MA 01760 USA

Consent
 Confidential Data
 Merger Allowed
 Manufacturing

View filings for this business entity:

- ALL FILINGS
- Annual Report
- Annual Report - Professional
- Articles of Entity Conversion
- Certificate of Amendment
- Certificate of Cancellation

[View filings](#)

Comments or notes associated with this business entity:

[New search](#)

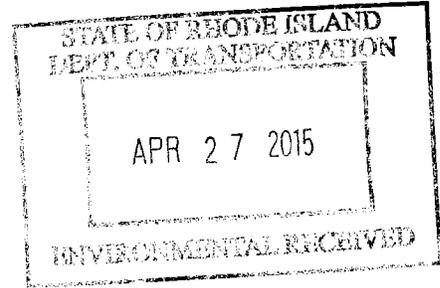


Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

April 21, 2015

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Richard D. Delgiudice
68 Sumter Street
Providence, RI 02907



NOTICE

Re: Illicit and/or Unauthorized Drainage Connection or Discharge to RIDOT Drainage System located at:
234 Putnam Pike, Johnston, RI (Assessor's Plat: 41, Lots: 33 and 138)

Dear Property Owner:

The purpose of this Notice is to inform you of a suspected illicit and/or unauthorized drainage connection to the Rhode Island Department of Transportation's drainage system from your property.

On August 8, 2014, a RIDOT contractor was inspecting the State drainage system with video inspection equipment and documented a non-RIDOT pipe connection at **234 Putnam Pike, Johnston, RI**. The connection occurs in a manhole adjacent to the catch basin located in front of 234 Putnam Pike (photos attached).

Please be advised that RIDOT is preparing to replace the drainage pipe located in front of your property; at the time of replacement, unauthorized and/or illicit connections will not be reconnected.

This unauthorized connection appears to be in violation of the Rhode Island General Law § 46-12-5 – *Water Pollution*, Rhode Island General Law § 24-8-33 - *Connection into drainage system*, and the Town of Johnston Ordinance *Chapter 298 – Stormwater Management* (attached for your reference). RIDOT strictly prohibits unauthorized connections and discharges into the State's drainage system. This prohibition expressly includes, without limitation, connections made in the past without first obtaining written authorization from the Department, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. Any such connection or discharge must be either permitted by RIDOT or immediately disconnected/sealed.

You have forty-five (45) days from the date of this letter to provide written notification to: (1) apply for a tie-in permit; (2) propose a schedule for the removal of the discharge; or (3) produce a copy of a valid, pre-existing drainage tie-in permit. Should no response be received within 45-days, the matter will be forwarded to the Rhode Island Department of Environmental Management, Office of Compliance and Inspection for enforcement. This may include fines or penalties, authorized by the Federal Clean Water Act, of up to \$25,000 for each day during which the violation occurs. A form has been attached for your convenience.

To: R. Delgiudice
From: J. Baker
Subject: Connection to State Drainage System
Date: 4/21/15

ATTACHMENT 3A - RIDOT IDDE

Please be aware that applying for a tie-in permit does not guarantee being granted one and a review will be performed in order to determine if the connection or discharge should be permitted. At a minimum, **RIDOT will require proof that the connection is either solely stormwater or an allowable non-stormwater discharge. Any costs associated with producing acceptable documentation are the sole responsibility of the applicant.** The application form may be found at:

http://www.dot.ri.gov/documents/doingbusiness/permits/PAPA_Application.pdf

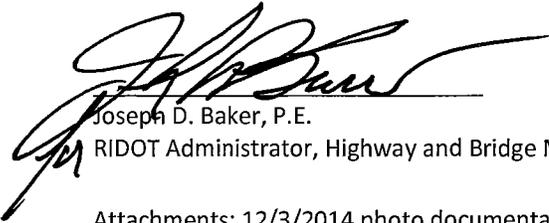
In the case of a pre-existing permit, RIDOT will consider maintaining the connection if the property owner can provide proof that the connection was made in accordance with the permit. Unless otherwise expressly stated in RIDOT's written authorization, all discharges entering the State's drainage system must be comprised solely of stormwater, and/or an allowable non-stormwater discharge as defined under the Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Stormwater Discharge from Small Municipal Separate Storm Sewer Systems. If the connection to the state drainage system is grey water or sewage, Federal and State laws prohibit the discharge from continuing.

Thank you for your anticipated cooperation in resolving this matter. If you have any questions, please contact Joseph Bucci, P.E., Deputy Administrator, at 401-734-4805 at your earliest convenience within the 45-day period.

Please mail correspondence to:

Joseph A. Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888

Sincerely,



Joseph D. Baker, P.E.

RIDOT Administrator, Highway and Bridge Maintenance Division

Attachments: 12/3/2014 photo documentation of connection; Applicable State & local laws;
Property Owner Response Form

cc: RIDOT: Alviti, Baker, Farhoumand, Hamel, Healey, Jacques, Palumbo

RIDEM: Patrick Hogan, Office of Compliance & Inspection; David Chopy, Office of Compliance & Inspection;
Eric Beck, RIPDES Permitting Program

Town of Johnston Department of Public Works: Arnold Vecchione, Director

Mr. Richard D. Delgiudice (regular mail)

Property: **234 Putnam Pike, Johnston, RI**

Owner: Richard Delgiudice, 68 Sumter St, Providence, RI 02907

To: R. Delgiudice

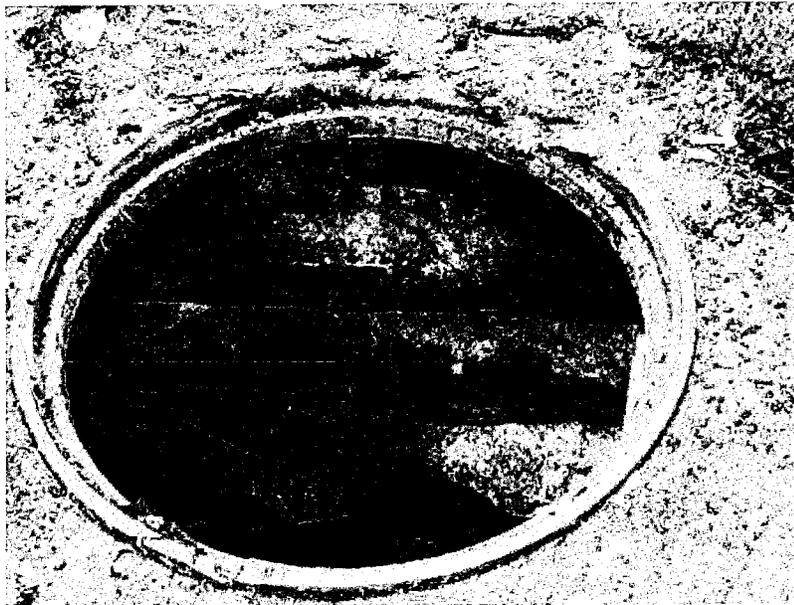
From: J. Baker

ATTACHMENT 3A - RIDOT IDDE

Subject: Connection to State Drainage System

Date: 4/21/15

Connection found in manhole behind the catch basin grate at 234 Putnam Pike



To: R. Delgiudice
From: J. Baker ATTACHMENT 3A - RIDOT IDDE
Subject: Connection to State Drainage System
Date: 4/21/15

Applicable State & Local statutes & ordinances

Johnston: (<http://www.ecode360.com/14476660>)

Part II – General Legislation; Chapter 298 - Stormwater Management (in its entirety)

Chapter 298 – Stormwater Management

The purpose of this chapter is to regulate illicit connections and discharges into the municipal separate storm sewer system (MS4) as is necessary to protect Johnston's water bodies and groundwater, and to safeguard the health, safety, and welfare of the public, and the environment, from contaminated stormwater runoff. The objectives of this chapter are:

- A. To prevent (or reduce to the maximum extent practicable) pollutants entering Johnston's MS4;*
- B. To require the removal of all such illicit connections and unauthorized discharges to the MS4;*
- C. To comply with state law and federal statutes and regulations relating to stormwater discharges; and*
- D. To set forth the legal authority and procedures to carry out all inspection, monitoring, and enforcement activities necessary to ensure compliance with this chapter.*

RIDOT: (<http://webserver.rilin.state.ri.us/Statutes/TITLE24/24-8/24-8-33.HTM>)

Title 24 - Highways; Chapter 8 - Construction and Maintenance of State Roads;

Section 33 – Connection into drainage system

§ 24-8-33 Connection into drainage system. – *It shall be unlawful for any person, firm or corporation to make any connection into a state road drainage system, or to drain or pump water onto the travelled surface of a state highway without first obtaining written permission from the director of the state department of transportation. The director of the department of transportation is empowered to make and file rules and regulations which prescribe the conditions under which the permission shall be granted. The director shall render a decision within ninety (90) days of receipt of the request for permission. Any person, firm, or corporation convicted of violating this section shall be fined one hundred dollars (\$100).*

Rhode Island: (<http://webserver.rilin.state.ri.us/Statutes/TITLE46/46-12/46-12-5.HTM>)

Title 46 - Water Pollution; Chapter 12 - Waters and Navigation; Section 5 - Prohibitions

§ 46-12-5 Prohibitions. – *(a) It shall be unlawful for any person to place any pollutant in a location where it is likely to enter the waters or to place or cause to be placed any solid waste materials, junk, or debris of any kind whatsoever, organic or non organic, in any waters.*

(b) It shall be unlawful for any person to discharge any pollutant into the waters except as in compliance with the provisions of this chapter and any rules and regulations promulgated hereunder and pursuant to the terms and conditions of a permit.

(c) It shall be unlawful to construct or install any industrial, commercial, or other establishment, to make any modification or addition thereto, or to undertake any development which may result in the discharge of any pollutant into the waters of the state, unless the discharge is made to a system or means to prevent pollution approved by the director.

(d) Notwithstanding subsections (a) and (b) above, an applicant seeking a water quality certification from the department of environmental management in connection with the disposal of dredge material at a site as provided for in § 46-23-18.3 and in a manner consistent with a comprehensive program as provided for in § 46-23-6(1)(ii)(H), shall be granted said water quality certification if the department of environmental management determines that the proposal is consistent with the water quality standards adopted pursuant to § 46-12-3(24).



Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

**PROPERTY OWNER RESPONSE
TO NOTICE OF ILLICIT/UNAUTHORIZED CONNECTION
TO RIDOT DRAINAGE SYSTEM**

Property Owner:

Property: **Address:**

Assessor's Plat:

Lot:

For this property, the property owner will:

- Apply for a tie-in permit by submitting a Physical Alteration Permit Application**

Comment: _____

- Propose a schedule for the removal of the discharge**

Comment: _____

- Produce a copy of a valid, pre-existing drainage tie-in permit**

Comment: _____

Property owner -- please sign & print name, and date

Signed:

Date: _____

Print Name: _____

Return Address:

Affix
STAMP

Joseph A. Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888



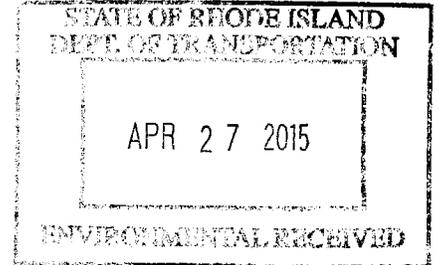
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

April 21, 2015

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Fernando J. Goncalves
239 Greenville Avenue
Johnston, RI 02919

NOTICE



Re: Illicit and/or Unauthorized Drainage Connection or Discharge to RIDOT Drainage System located at:
228 Putnam Pike, Johnston, RI (Assessor's Plat: 41, Lot: 31)

Dear Property Owner:

The purpose of this Notice is to inform you of a suspected illicit and/or unauthorized drainage connection to the Rhode Island Department of Transportation's drainage system from your property.

On August 8, 2014, a RIDOT contractor was inspecting the State drainage system with video inspection equipment and documented a non-RIDOT pipe connection at **228 Putnam Pike, Johnston, RI**. The connection occurs approximately 14-feet west of the catchbasin located at the intersection of Putnam Pike and Anglewood Avenue, directly in front of 228 Putnam Pike (photos attached).

Please be advised that RIDOT is preparing to replace the drainage pipe located in front of your property; at the time of replacement, unauthorized and/or illicit connections will not be reconnected.

This unauthorized connection appears to be in violation of the Rhode Island General Law § 46-12-5 – *Water Pollution*, Rhode Island General Law § 24-8-33 - *Connection into drainage system*, and the Town of Johnston Ordinance *Chapter 298 – Stormwater Management* (attached for your reference). RIDOT strictly prohibits unauthorized connections and discharges into the State's drainage system. This prohibition expressly includes, without limitation, connections made in the past without first obtaining written authorization from the Department, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. Any such connection or discharge must be either permitted by RIDOT or immediately disconnected/sealed.

You have forty-five (45) days from the date of this letter to provide written notification to: (1) apply for a tie-in permit; (2) propose a schedule for the removal of the discharge; or (3) produce a copy of a valid, pre-existing drainage tie-in permit. Should no response be received within 45-days, the matter will be forwarded to the Rhode Island Department of Environmental Management, Office of Compliance and Inspection for enforcement. This may include fines or penalties, authorized by the Federal Clean Water Act, of up to \$25,000 for each day during which the violation occurs. A form has been attached for your convenience.

To: F. Goncalves
From: J. Baker
Subject: Connection to State Drainage System ATTACHMENT 3A - RIDOT IDDE
Date: 4/21/15

Please be aware that applying for a tie-in permit does not guarantee being granted one and a review will be performed in order to determine if the connection or discharge should be permitted. At a minimum, **RIDOT will require proof that the connection is either solely stormwater or an allowable non-stormwater discharge. Any costs associated with producing acceptable documentation are the sole responsibility of the applicant.** The application form may be found at:

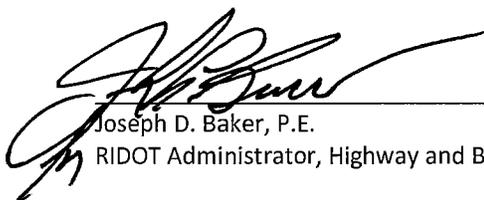
http://www.dot.ri.gov/documents/doingbusiness/permits/PAPA_Application.pdf

In the case of a pre-existing permit, RIDOT will consider maintaining the connection if the property owner can provide proof that the connection was made in accordance with the permit. Unless otherwise expressly stated in RIDOT's written authorization, all discharges entering the State's drainage system must be comprised solely of stormwater, and/or an allowable non-stormwater discharge as defined under the Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Stormwater Discharge from Small Municipal Separate Storm Sewer Systems. If the connection to the state drainage system is grey water or sewage, Federal and State laws prohibit the discharge from continuing.

Thank you for your anticipated cooperation in resolving this matter. If you have any questions, please contact Joseph Bucci, P.E., Deputy Administrator, at 401-734-4805 at your earliest convenience within the 45-day period. Please mail correspondence to:

Joseph Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888

Sincerely,



Joseph D. Baker, P.E.
RIDOT Administrator, Highway and Bridge Maintenance Division

Attachments: 8/8/2014 photo documentation of connection; Applicable State & local laws;
Property Owner Response Form

cc:

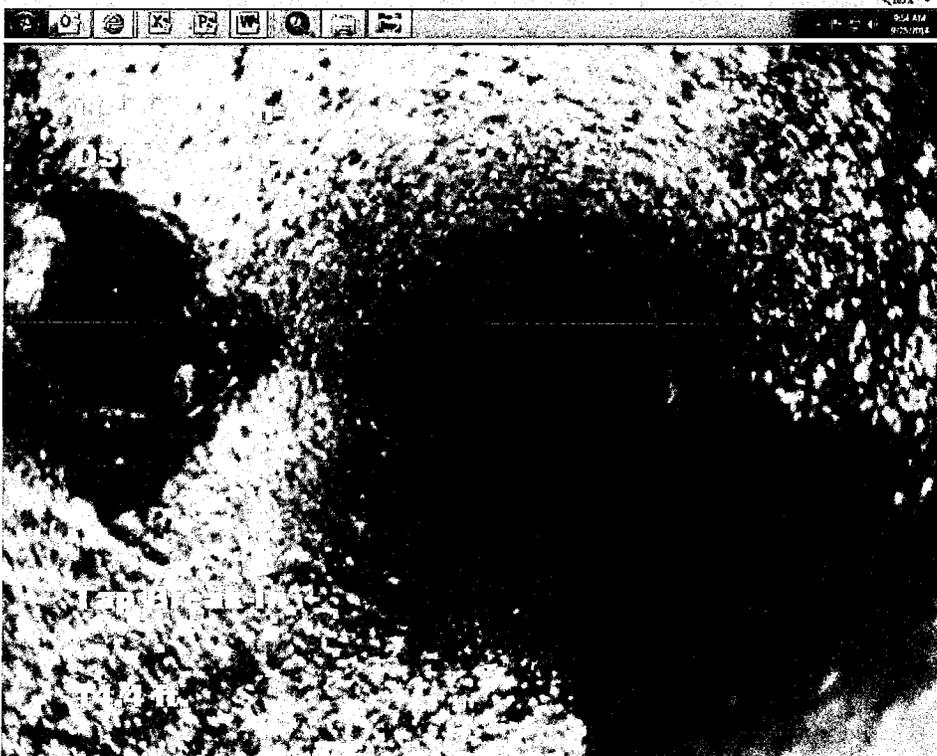
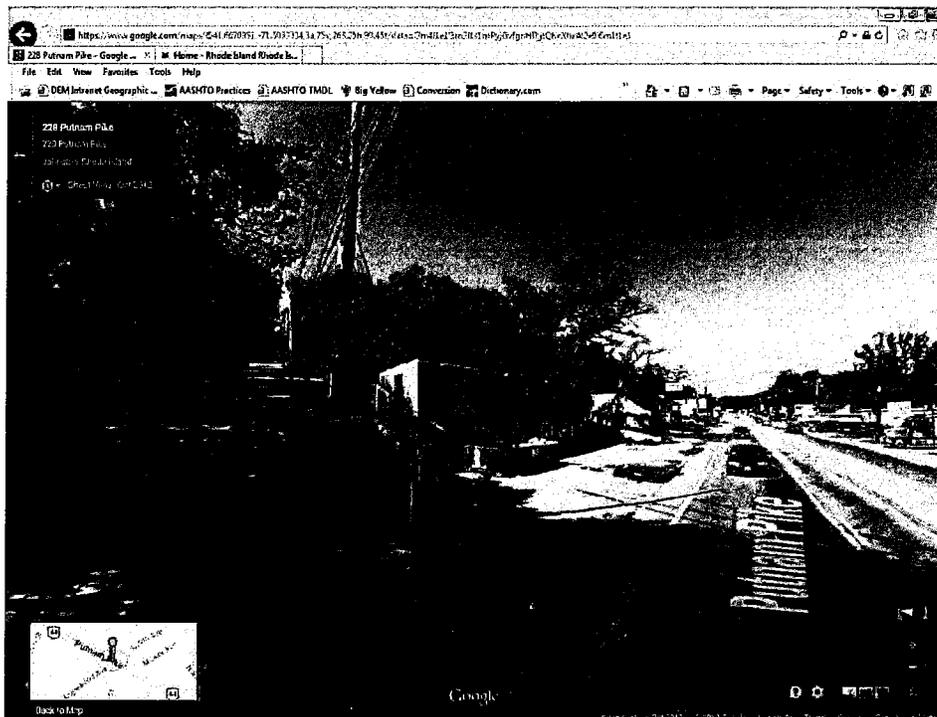
RIDOT: Alвити, Baker, Farhoumand, Hamel, Healey, Jacques, Palumbo
RIDEM: Patrick Hogan, Office of Compliance & Inspection; David Chopy, Office of Compliance & Inspection;
Eric Beck, RIPDES Permitting Program
Town of Johnston Department of Public Works: Arnold Vecchione, Director
Mr. Fernando J. Goncalves (regular mail)

To: F. Goncalves
From: J. Baker
Subject: Connection to State Drainage System
Date: 4/21/15

ATTACHMENT 3A - RIDOT IDDE

Property: 228 Putnam Pike, Johnston, RI

Owner: Fernando Gancalves, 239 Greenville Ave, Johnston, RI 02919



To: F. Goncalves
From: J. Baker
Subject: Connection to State Drainage System
Date: 4/21/15

ATTACHMENT 3A - RIDOT IDDE

Applicable State & Local statutes & ordinances

Johnston: (<http://www.ecode360.com/14476660>)

Part II – General Legislation; Chapter 298 - Stormwater Management (in its entirety)

Chapter 298 – Stormwater Management

The purpose of this chapter is to regulate illicit connections and discharges into the municipal separate storm sewer system (MS4) as is necessary to protect Johnston's water bodies and groundwater, and to safeguard the health, safety, and welfare of the public, and the environment, from contaminated stormwater runoff. The objectives of this chapter are:

- A. To prevent (or reduce to the maximum extent practicable) pollutants entering Johnston's MS4;*
- B. To require the removal of all such illicit connections and unauthorized discharges to the MS4;*
- C. To comply with state law and federal statutes and regulations relating to stormwater discharges; and*
- D. To set forth the legal authority and procedures to carry out all inspection, monitoring, and enforcement activities necessary to ensure compliance with this chapter.*

RIDOT: (<http://webserver.rilin.state.ri.us/Statutes/TITLE24/24-8/24-8-33.HTM>)

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Section 33 – Connection into drainage system

§ 24-8-33 Connection into drainage system. – *It shall be unlawful for any person, firm or corporation to make any connection into a state road drainage system, or to drain or pump water onto the travelled surface of a state highway without first obtaining written permission from the director of the state department of transportation. The director of the department of transportation is empowered to make and file rules and regulations which prescribe the conditions under which the permission shall be granted. The director shall render a decision within ninety (90) days of receipt of the request for permission. Any person, firm, or corporation convicted of violating this section shall be fined one hundred dollars (\$100).*

Rhode Island: (<http://webserver.rilin.state.ri.us/Statutes/TITLE46/46-12/46-12-5.HTM>)

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(b) It shall be unlawful for any person to discharge any pollutant into the waters except as in compliance with the provisions of this chapter and any rules and regulations promulgated hereunder and pursuant to the terms and conditions of a permit.

(c) It shall be unlawful to construct or install any industrial, commercial, or other establishment, to make any modification or addition thereto, or to undertake any development which may result in the discharge of any pollutant into the waters of the state, unless the discharge is made to a system or means to prevent pollution approved by the director.

(d) Notwithstanding subsections (a) and (b) above, an applicant seeking a water quality certification from the department of environmental management in connection with the disposal of dredge material at a site as provided for in § 46-23-18.3 and in a manner consistent with a comprehensive program as provided for in § 46-23-6(1)(ii)(H), shall be granted said water quality certification if the department of environmental management determines that the proposal is consistent with the water quality standards adopted pursuant to § 46-12-3(24).



Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

**PROPERTY OWNER RESPONSE
TO NOTICE OF ILLICIT/UNAUTHORIZED CONNECTION
TO RIDOT DRAINAGE SYSTEM**

Property Owner:

Property: Address:

Assessor's Plat:

Lot:

For this property, the property owner will:

- Apply for a tie-in permit by submitting a Physical Alteration Permit Application

Comment: _____

- Propose a schedule for the removal of the discharge

Comment: _____

- Produce a copy of a valid, pre-existing drainage tie-in permit

Comment: _____

Property owner -- please sign & print name, and date

Signed:

Date: _____

Print Name: _____

Return Address:

Affix
STAMP

Joseph A. Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888

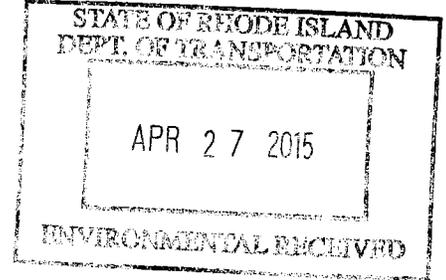


Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

April 21, 2015

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Giovanni D. Conti
98 Brown Avenue
Johnston, RI 02919



Re: Potential Illicit and/or Unauthorized Drainage Connection or Discharge to RIDOT Drainage System located at:
230 Putnam Pike, Johnston, RI (Assessor's Plat: 41, Lot: 32)

Dear Property Owner:

The purpose of this letter is to inform you, as owner of the above-referenced property, of a suspected connection or discharge to the Rhode Island Department of Transportation's drainage system without a properly issued Physical Alteration Permit (tie-in permit) in close proximity to your property.

On August 8, 2014, a RIDOT contractor was inspecting the State drainage system on Route 44 (Putnam Pike) in Johnston, RI with video inspection equipment. At that time, the entire drainage system could not be inspected due to the deterioration of the pipe. However, several non-RIDOT pipe connections were found in close proximity to your property. Please be advised that RIDOT is preparing to replace the drainage pipe located in front of your property between Anglewood Ave and the Smithfield/Johnston Town Line; at the time of replacement, unauthorized and/or illicit connections will not be reconnected.

Illicit and/or unauthorized connections to the State drainage system are in violation of the Rhode Island General Law § 46-12-5 – Water Pollution, Rhode Island General Law § 24-8-33 - Connection into drainage system, and the Town of Johnston Ordinance Chapter 298 – Stormwater Management (attached for your reference). RIDOT strictly prohibits unauthorized connections and discharges into the State's drainage system. This prohibition expressly includes, without limitation, connections made in the past without first obtaining written authorization from the Department, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. Any such connection or discharge must be either permitted by RIDOT or immediately disconnected/sealed.

You have forty-five (45) days from the date of this letter to provide written notification to: (1) apply for a tie-in permit; (2) propose a schedule for the removal of the discharge; (3) produce a copy of a valid, pre-existing drainage tie-in permit or (4) state that your property does not have any physical connection to the State Drainage System. A form has been attached for your convenience.

Please be aware that applying for a tie-in permit does not guarantee being granted one and an internal review will be performed in order to determine if the connection or discharge should be permitted. At a minimum, **RIDOT will require proof that the connection is either solely stormwater or an allowable non-stormwater discharge.** The application form may be found at

http://www.dot.ri.gov/documents/doingbusiness/permits/PAPA_Application.pdf

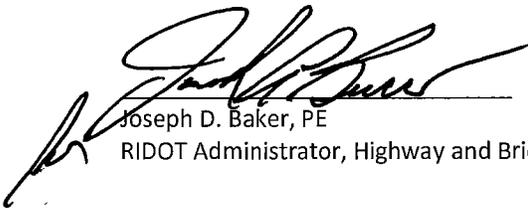
To: G. Conti
From: J. Baker
Subject: Connection to State Drainage System ATTACHMENT 3A - RIDOT IDDE
Date: 4/21/15

In the case of a pre-existing permit, RIDOT will consider maintaining the connection if the property owner can provide proof that the connection was made in accordance with the permit. Unless otherwise expressly stated in RIDOT's written authorization, all discharges entering the State's drainage system must be comprised solely of stormwater, and/or an allowable non-stormwater discharge as defined under the Rhode Island Pollutant Discharge Elimination System (RIPDES) General Permit for Stormwater Discharge from Small Municipal Separate Storm Sewer Systems. If the connection to the state drainage system is grey water or sewage, Federal and State laws prohibit the discharge from continuing.

Thank you for your anticipated cooperation in resolving this matter. If you have any questions, please contact Joseph Bucci, P.E., Deputy Administrator, at 401-734-4805 at your earliest convenience within the 45-day period. Please mail correspondence to:

Joseph A. Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888

Sincerely,



Joseph D. Baker, PE
RIDOT Administrator, Highway and Bridge Maintenance Division

Attachments: Applicable State & local laws; Property Owner Response Form

cc:

RIDOT: Alviti, Baker, Farhoumand, Hamel, Healey, Jacques, Palumbo
RIDEM: Patrick Hogan, Office of Compliance & Inspection; David Chopy, Office of Compliance & Inspection;
Eric Beck, RIPDES Permitting Program
Town of Johnston Department of Public Works: Arnold Vecchione, Director
Mr. Giovanni D. Conti (regular mail)

Applicable State & Local statutes & ordinances

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- A. To prevent (or reduce to the maximum extent practicable) pollutants entering Johnston's MS4;*
- B. To require the removal of all such illicit connections and unauthorized discharges to the MS4;*
- C. To comply with state law and federal statutes and regulations relating to stormwater discharges; and*
- D. To set forth the legal authority and procedures to carry out all inspection, monitoring, and enforcement activities necessary to ensure compliance with this chapter.*

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(c) It shall be unlawful to construct or install any industrial, commercial, or other establishment, to make any modification or addition thereto, or to undertake any development which may result in the discharge of any pollutant into the waters of the state, unless the discharge is made to a system or means to prevent pollution approved by the director.

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Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

**PROPERTY OWNER RESPONSE
TO NOTICE OF POTENTIAL CONNECTION
TO RIDOT DRAINAGE SYSTEM**

Property Owner:

Property: **Address:**

Assessor's Plat:

Lot:

For this property, the property owner will:

- Apply for a tie-in permit by submitting a Physical Alteration Permit Application**

Comment: _____

- Propose a schedule for the removal of the discharge**

Comment: _____

- Produce a copy of a valid, pre-existing drainage tie-in permit**

Comment: _____

- I believe there is no connection, however, I understand if there is a connection found at the time of Construction, I will be responsible for expedited action to resolve any issues.**

Comment: _____

Property owner -- please sign & print name, and date

Signed:

Date: _____

Print Name: _____

Return Address:

Affix
STAMP

Joseph A. Bucci, PE
Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Ave
Warwick, RI 02888

**FREDERICKSON CONSTRUCTION LLC.**

1051 CHOPMIST HILL ROAD NO. SCITUATE, RI 02857

DATE: May 15, 2015

Dear Mr. Bucci

As per are conversation on 228 Putnam Pike, Johnston, RI in regards to a non-RIDOT connection. Frederickson Construction sent a camera down the RIDOT pipe and found there was a 4" black orange burg piece of perforated pipe in the said location. At this time Frederickson Construction inspected the septic at the location and found the water level in the system was great than 4' higher than the 4" pipe in the RIDOT'S pipe. The system was then pump and inspected Frederickson Construction found only one white 4" pvc leaving the system, so the camera was sent down the line. The line left the system going east for 6' then to a tee and going north and south for 10', each 10' piece was white perforated pvc. Frederickson Construction also ran water into all the down spot drains and found them all exiting on the surface, out of a 6" pvc located at the north east corner of the property. After inspecting the property, drains line and septic and gutter lines there are no pipe at this time leaving the property and ending up in the RIDOT pipe. Buy the age of the pipe in the pictures, it may at one time done something but not at this time is any water being direct there.

Sincerely,

Howard Frederickson
Frederickson Construction LLC.











Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

**PROPERTY OWNER RESPONSE
TO NOTICE OF POTENTIAL CONNECTION
TO RIDOT DRAINAGE SYSTEM**

Property Owner: GIOVANNI CONTI

Property Address: 230 PUTNAM PIKE
JOHNSTON RI

Assessor's Plat: 41 Lot: 32

For this property, the property owner will:

Apply for a tie-in permit by submitting a Physical Alteration Permit Application
Comment: _____

Propose a schedule for the removal of the discharge
Comment: _____

Produce a copy of a valid, pre-existing drainage tie-in permit
Comment: _____

I believe there is no connection, however, I understand if there is a connection found at the time of Construction, I will be responsible for expedited action to resolve any issues.

Comment: I have owned this property over 10 years, and I have never
connected to any drainage line. I called Mr. Joseph Bucci and
discussed any possible past connections, and we have no idea what, if any,
connections there may be. My butters discharge on my grass, I do not
have any driveway gate, I do not have any other use for any drainage.

Property owner -- please sign & print name, and date

Signed: [Signature]

Date: 5/4/15

Print Name: GIOVANNI CONTI

Permit_No	Permit_Ty	Receipt_Date	Loc_Specific	Loc_Town	Permit_Purpose	Date_Of_Issue
140219	C	2/19/2014	590 Metacom Ave.	Bristol	Maintain existing drainage & driveway	4/25/2014
140124-A	C	1/24/2014	280 Cowesett Ave.	West Warwick	Existing drainage	6/4/2014
140107	C	1/7/2014	5 East Main Road	Middletown	Proposed entrance and drainage connection	6/20/2014
140709	C	7/9/2014	1320 Ten Rod Road	North Kingstown	Approval of drainage	9/25/2014
140703	C	7/3/2014	72 Newport Avenue	East Providence	Direct drainage tie-in	10/6/2014
141028-A	R	10/28/2014	24 New Meadow Road	Barrington	Relocate state drain line	11/6/2014
140919	C	9/19/2014	425-427 Main Street	East Greenwich	Drain line in sidewalk	11/13/2014
140320	C	3/20/2014	77 Highland Ave.	East Providence	Revise curbcut/drainage tie-in	1/13/2015
140912	C	9/12/2014	Memorial Blvd. @ Freebody St.	Newport	Curb cuts & drainage connections	2/23/2015
141121-A	C	11/21/2014	Intersection of Inez St. & Kingstown Rd.	Narragansett	To alleviate drainage issue	4/10/2015
130405-A	C	4/5/2013	Intersection of Knight St. & Pontiac Ave.	Cranston	Install 2 new drainage pipes	5/7/2015
150514	R	5/14/2015	80 Peckham Road	Little Compton	Basement drain tie-in	5/19/2015
150212-A	C	2/12/2015	Post Road	Warwick	Proposed parking lot/drainage tie-in	5/28/2015
150427-A	C	4/27/2015	Nooseneck Hill Road @ Teft Hill Rd.	Exeter	Drainage to proposed solar develop.	6/3/2015
150508-G	C	5/8/2015	1783 Old Louisquisset Pike	Lincoln	Driveway and indirect drainage discharge	6/30/2015
141114-A	C	11/14/2014	Chestnut & Friendship Street	Providence	Proposed drainage & utility conn.	7/24/2015
150317	C	3/17/2015	Corner of Metacom Ave.	Bristol	Drainage system	7/30/2015
150325	C	3/25/2015	East Main Road	Portsmouth	Driveway & drainage connection	8/7/2015
150616	C	6/16/2015	847 Tiogue Avenue	Coventry	Close one driveway, modify another; drainage tie-in	11/20/2015
150803	C	8/3/2015	400 East Avenue	Warwick	Drainage Improvements	11/20/2015
150724	C	7/24/2015	1132 Mineral Spring Ave.	North Providence	Driveway/sidewalk & revise connection to drainage syst	12/14/2015

RIDOT Compliance Assistance Program 2014 - 2015 Summary of Findings

1. Overall Activities

A total of 20 sites that fulfill the project requirement (> 1 acre and SWPPP) have been inspected since the beginning of 2014 (Table 1). During the 2014 campaign 12 sites were inspected with the purpose to obtain a baseline of the environmental compliance.

Table 1. Total of sites participant in the project

Site Name	RIDOT Contract Number	Baseline Inspection Date	Intervention Inspection Date	Final Inspection Date	Submittal 2 Used
Hurricane Sandy Repairs to the Newport Cliffwalk	2013-DF-084	7/30/14	Construction ended		
I-295 Safety & Bridge C-3B, Bridge 750	2011-CB-011	8/8/14	Construction ended		
Wellington Ave Br Mitigation Phase II (FRIP C-2B)	2013-CB-032	8/27/14	Construction ended		
Trestle Trail - East Station	2013-CH-018	7/14/14	Construction ended		
Reconstruction of Two Mile Corner-Stormwater Management Facility	2014-CH-045	7/24/14	Construction ended		
Rehabilitation of Barton Corner Bridge No. 518	2013-CB-083	9/26/14	Construction ended		
I-195 Relocation - Contract 14 (West side streets)	2013-CH-004	8/25/14	Construction ended		
Magnolia Bridge No. 503 Removal	2013-CB-062	7/21/14	Construction ended		
Kent Dam Spillway Bridge No. 84 Rehabilitation	2013-CB-080	8/7/14	Construction ended		
Ten Rod Road Bridge No. 591	2012-CB-030	8/1/14	Construction ended		
Replacement of Central Bridge No. 182 and Access Improvements to Rt. 114	2012-CB-001	7/11/14	7/27/15	10/29/15	No
Replacement of I-95 Providence Viaduct Bridge No. 578	2012-CB-078	8/21/14	7/30/15	10/8/15	No
Apponaug Circulator Longterm Improvements	2014-CH-028	9/28/15	9/28/15	10/6/15	No
Replacement of Great Island Bridge No. 499	2014-CB-037	7/10/15	8/18/15	10/8/15	No
1R Highway Improvements to Mineral Spring Avenue	2014-CH-039	7/9/15	7/9/15	10/15/15	No
Bridge No's 483-486 Pier Cap Replacement and Miscellaneous Bridge Repairs	2015-CB-028	7/16/15	8/12/15	8/12/15	No
Broadway Streetscape Improvement Project	2014-CH-071	8/6/15	8/19/15	10/8/15	No
Metropolitan Providence Bicycle Facility Contract 2 - Colt State Park Bike Path Connector	2014-CH-036	6/29/15	N/A	N/A	Yes
Improvements to Route 1 (Post Road) and Parts of Old Post Road	2014-CH-074	7/15/15	N/A	N/A	Yes
Washington #200 - Pedestrian Bridge, & Br. 464	2012-CB-046	8/4/15	N/A	N/A	Yes

The results obtained during this first phase showed a high compliance in the categories of "Documentation on site" and "Proper documentation", however major deficiencies were detected in "Procedures" and "Prohibited discharges" (Figure 1)

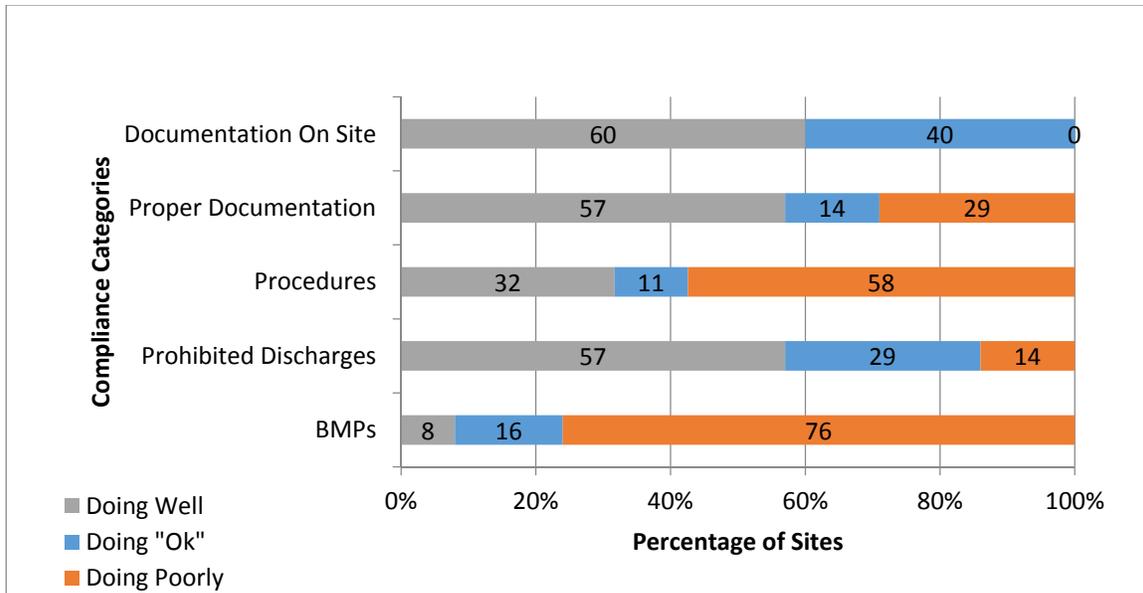


Figure 1. Level of compliance of sites visited during 2014

During 2015, the first full cycle of the Compliance Assistance Program (CAP) was launched. The program consisted of five parts:

- (1) Baseline inspections: Using Submittal 1, CAP inspectors performed an assessment of the level of compliance of the site
- (2) Training: Resident engineers participate on the CAP winter training
- (3) Intervention: CAP inspectors and Resident Engineers inspect together the site using Submittal 1
- (4) Technical support: CAP inspectors submit the results of the intervention inspection along with materials to support corrective actions
- (5) Final Inspection: CAP inspector perform a final inspection between two to four weeks after intervention inspections to determine if corrective actions have been implemented on site

A total of 10 sites qualified to participate in the program: two sites still active from the first phase and eight new sites. From the 10 sites, a total of seven sites went through the five parts of the program; the other three sites due to their final stages of construction only were able to participate on part 1 and 2. The results obtained showed an overall increase in the compliance percentage of the site through out the process and a reduction of the non-compliance incidents (Figure 2). The higher increases in compliance are obtained in the categories of "Procedures" and "BMPs". Figure 3 shows the total number of questions answered "YES", "NO" and "N/A". It should be noted the large number of "N/A" in categories such as "BMPs" and "Procedures". Further analysis of questions that are answered as N/A for most of the sites are presented on Table 2.

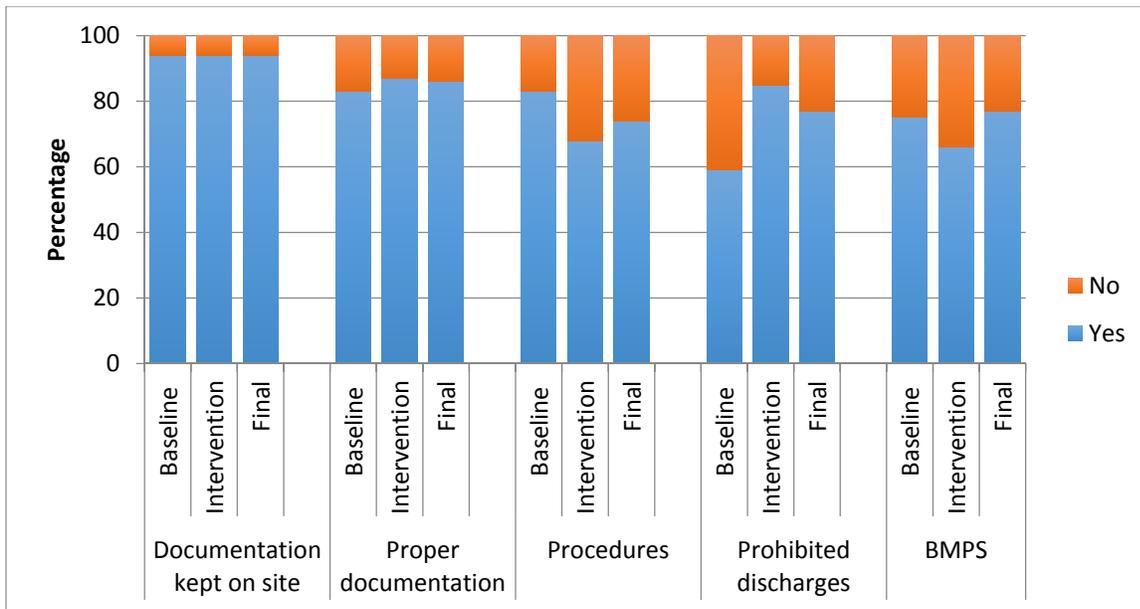


Figure 2. Compliance of sites through the full CAP cycle as percentage of questions answered YES or NO using Submittal 1

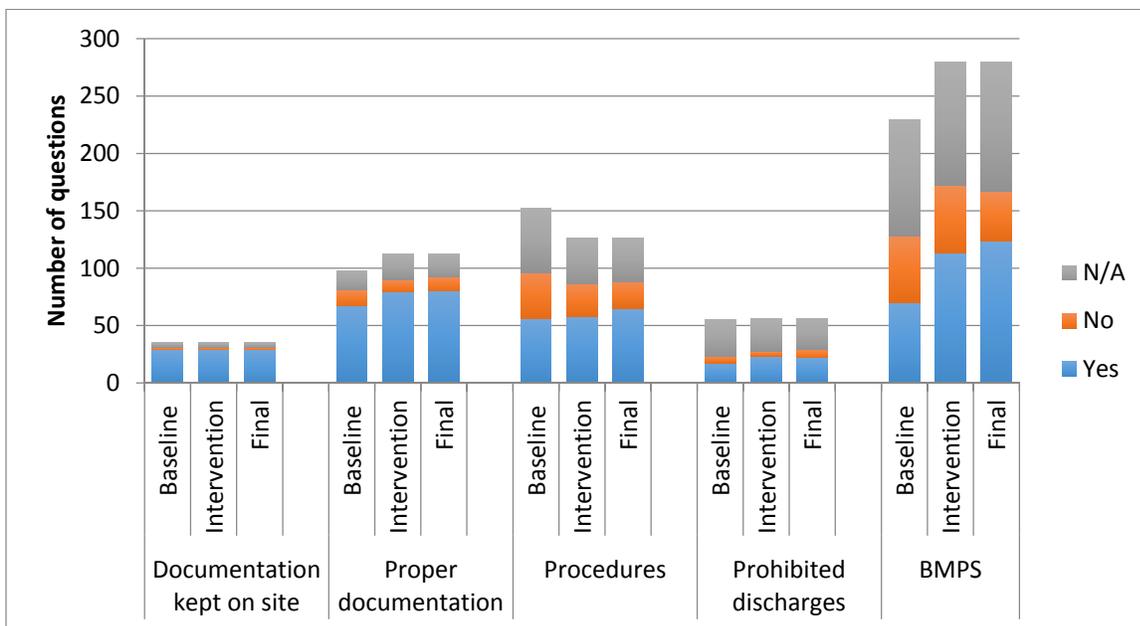


Figure 3. Compliance of sites through the full CAP cycle as total number of questions answered YES, NO or Non-applicable (N/A) using Submittal 1. The change in the total number of questions between the Baseline and Intervention/Final is due to revisions done on Submittal 1.

Table 2. Number of questions by category answered as non-application on >70% of sites. In parenthesis is presented the list of questions.

	Proper documentation	Documentation kept on site	Procedures	Prohibited discharges	BMPs
Baseline	0	2 (D9, D15)	6 (A5i, B22, C7, D9, D13, D14)	5 (C1i, C1iii, C1v, C1vi, C14iv)	12 (B3, B4, B4i, B12, B13, B14i, B14ii, B17, B19, B20, C4, C14iv)
Intervention	0	2 (D14, D15)	4 (A5i, B22, D13, D14)	4 (C1i, C1v, C1vi, C14iv)	12 (A5, A5i, B4, B4i, B5, B7, B13, B12, B14i, B14ii, C4, C14ii)
Final	0	2 (D14, D15)	4 (A5i, B22, D13, D14)	4 (C1i, C1v, C1vi, C14iv)	11 (A5, A5i, B4, B4i, B5, B7, B13, B14i, B14ii, C4, C14ii)

**In Italics questions that are not applicable in all three stages.*

2.- Statistical Analysis

For the statistical analysis the compliance was calculated based on the applicable questions for each site. Therefore the number of questions to calculate compliance for each site may differ, however by dividing the number of answers stating “Yes” on compliance by the number of relevant questions for that site and category the site’s compliance percentage is normalized. The normalized compliance scores for each inspection were compared for each category using a two tailed paired t-test with $\alpha=0.1$.

In almost all categories except “Procedures” the average compliance percentage increased from the baseline to the final inspection (Figure 3). When looking at the individual there was no difference in compliance between the different inspection phases in the categories “Documentation kept on site” and “Proper Documentation”. In the category “Procedures” there was a significant decrease in compliance between both the baseline inspection and intervention and the final inspections. However, between the intervention and final inspection there was a significant increase in compliance. In the category “Prohibited Discharges” there was a significant increase in compliance between the baseline and the intervention inspection. After the intervention inspection no significant difference in compliance increase was observed. Finally, in the category “BMPs” there was a significant increase in compliance between the intervention and final inspections.

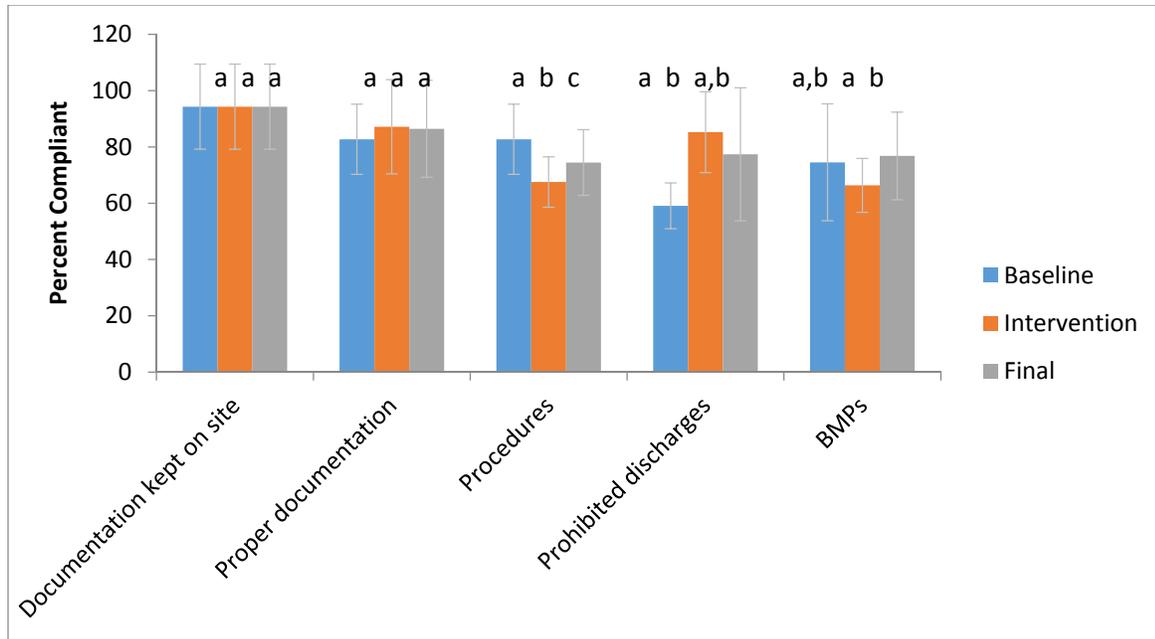


Figure 3. Average \pm standard compliance for each category during each inspection phase. The letters above each bar indicate significant differences in compliance between inspections – different letters indicate significant differences between the inspections within that category.

3. RIDOT CAP 2015 Observations and Recommendations

CAP Observations:

- Baseline inspections had somewhat similar compliance levels as 2014
- Sites with REs who went through 2014 CAP training had better overall compliance
- Intervention inspections had similar level of compliance to baseline inspections
- REs were very receptive to our compliance concerns and recommendations
- Final inspections had better compliance than intervention and baseline for the most part

Overall Compliance Observations:

- Documentation is very well done on most sites
- Corrective actions are not done within the necessary timeframe
- Stockpiles are not protected
- Moderate issues with slope erosion
- Most washout areas are not marked in the field
- Reoccurring issues with sediment track out and containing sediment/ need crushed stone pad
- Issues with implementing and maintaining sediment controls
- Some instances of unprotected catch basins
- Need to properly contain and dispose of concrete washout
- A few cases where inspections began well after the start of construction

- Moderate issues with trash/ construction debris/ waste management
- Often areas that are inactive are not stabilized when necessary

Recommendations:

- Make sure weekly compliance reports are submitted and reviewed on time to better stay on top of making corrective actions in a timely manner
- Inspectors should not mark that a site is compliant if it has multiple significant issues or reoccurring issues that have not been addressed since their last report
- Inspectors need to be notified of the project before the start of construction
- All REs should be required to complete a SESC training or certification

ATTACHMENT 4B - RIDOT Final Inspections 2014
2014 FINAL INSPECTIONS

CONTRACT	PROJECT NAME/LOCATION	FINAL INSP.DATE	ACCEPTANCE OF WORK DATE
2011-088-CR	Statewide Crack Sealing	1/7/2014	1/7/2014
2012-072-CR	2012 Crack Sealing Limited Access, Statewide	1/7/2014	1/7/2014
2012-073-CR	2012 Crack Sealing North & East, Statewide	1/7/2014	1/7/2014
2012-074-CR	2012 Crack Sealing South & Central	1/7/2014	1/7/2014
2011-086-CT	2012-2013 Statewide Pavement Striping - South	1/27/2014	1/27/2014
2011-087-CT	2012-2013 Statewide Pavement Striping - Central	1/27/2014	1/27/2014
2012-051-CT	2012-2013 Statewide Pavement Striping - Limited Access	1/27/2014	1/27/2014
2011-012-CL	Statewide Tree Trimming Contract	2/19/2014	2/19/2014
2011-057-CL	I-95 Gateway Maintenance Contract 2011-2012, Cranston	2/19/2014	2/19/2014
2010-084-CB	Type 2 Emergency-Bridge Repair to Huntington Ave. Bridges North and South(664 and 666) - Cranston	4/17/2014	4/17/2014
2012-035-DF	Statewide Bridge Scour Remediation - Contract 1	4/23/2014	4/23/2014
2008-056-CB	Replacement of Sakonnet River Bridge #250 (Steel Option), Portsmouth/Tiverton	5/1/2014	
2007-032-CI	Warwick Intermodal Station Site Remediation System Relocation & Operations & Monitoring Extension-Warwick	5/6/2014	5/6/2014
2012-056-CH	1R Improvements to Route 44, Contract3C, Chepachet	5/8/2014	7/3/2014
2012-049-CT	RI*STARS - Aquidneck Island - Contract 1 (HSIP 406 Funds)	5/13/2014	5/13/2014
2014-041-CH	Type 2 Emergency Replacement of Woodville Road Clapper, Hopkinton	5/15/2014	8/1/2014
2012-030-CB	Ten Rod Road Bridge #591, Exeter	5/29/2014	
2011-096-CB	Natick Bridge #383-Warwick/West Warwick	6/5/2014	7/23/2014
2012-050-CH	ADA - Metacom Avenue, Warren	6/10/2014	
2011-045-CH	Northwest Bike Trail / Woonasquatucket River Bikeway C-3, Providence	6/12/2014	
2011-075-CM	Statewide Impact Attenuator Replacement & Repair 2011	6/24/2014	6/24/2014
2012-006-CH	1R Elm Street, Beach Street, Railroad Avenue, West Street, Dixon Street, & Granite Quarry Bridge #854, Westerly	7/1/2014	
2012-067-CH	Improvements to Route 216, Hopkinton	7/2/2014	
2012-013-CB	Randall Street Bridge #974-Providence	7/9/2014	
2013-013-CH	Northwest Bike Trail/Woonasquatucket River Bikeway C-7 (Cricket Field), Johnston	7/15/2014	
2012-017-CB	Pocasset River Bridge #23, Cranston	7/17/2014	
2013-088-CR	Paver Placed Elastomeric Surface Treatment - Jamestown Ramps & Service Road, Jamestown	7/23/2014	10/15/2014
2013-104-CH	Kingston Station (North) Overflow Parking Lot, South Kingstown	7/31/2014	
2013-025-CB	DBP C7 Repairs to Jefferson Blvd., South Bridge #634, Warwick	8/19/2014	
2011-027-CH	Coventry Greenway Bikepath - West (WSB Facility C-5)-Coventry	8/20/2014	11/21/2014
2013-084-DF	Hurricane Sandy Repairs to the Newport Cliff Walk (Rebid)	9/3/2014	

ATTACHMENT 4B - RIDOT Final Inspections 2014
2014 FINAL INSPECTIONS

CONTRACT	PROJECT NAME/LOCATION	FINAL INSP. DATE	ACCEPTANCE OF WORK DATE
2012-082-CH	Improvements to Route 44 Contract 2B - Austin Avenue to Danecroft Avenue, Smithfield	9/4/2014	
2011-036-CB	Conant Street RR Bridge #915, Pawtucket	9/9/2014	
2013-107-CH	2013 Statewide Resurfacing Program	9/16/2014	9/16/2014
2014-056-CH	Interstate I-295 Pavement Preservation, Cranston/Cumberland/Johnston/Lincoln/Smithfield/Warwick/West Warwick	9/16/2014	
2011-011-CB	I-295 Safety & Bridge C-3B, Bridge #750-Cumb./Lincoln/Smith.	9/24/2014	
2013-100-WO	MPS-451 - Pavement Marking Installation & Removal - WOP No 4, Statewide	9/25/2014	
2011-109-CT	Division Street Access Improvements EARMARK Funds. Design Funded by NE Tech/Construction by RIDOT, East Greenwich	9/30/2014	
2014-019-CH	Improvements to Jamestown Stormwater Pump Station, Tank Cleaning, & Inspection - Contract C-1, Jamestown	10/2/2014	11/13/2014
2013-101-WO	MPS-451 - Pavement Marking Installation & Removal - WOP No 4, Statewide	10/8/2014	10/8/2014
2013-102-WO	MPS-451 - Pavement Marking Installation & Removal - WOP No 4, Statewide	10/8/2014	
2012-018-CH	Route 165 Reclamation, Exeter	10/14/2014	
2013-093-CT	State Traffic Commission - Contract 2 South, Statewide	10/15/2014	
2013-024-CB	DBP C-5 Hopkins Mill Bridge #96, Foster	10/16/2014	
2013-001-CI	Safe Routes to School - Infrastructure Improvements: Ella Risk & Veterans Memorial Elementary Schools, Central Falls	10/23/2014	
2013-075-CH	I-295 Ramps Resurfacing Warwick to MA State Line, Statewide	11/18/2014	
2013-066-CT	2013-2014 Statewide Pavement Striping - North	11/20/2014	
2014-065-CH	High Priority Interim Pavement Improvements to Route 138 (Kingstown Road), South Kingstown	12/2/2014	
2013-094-CT	State Traffic Commission - Contract 2 North/Central, Cumberland, Lincoln, North Kingstown, Pawtucket, Smithfield, Warwick	12/3/2014	
2013-087-CR	2013 Crack Sealing Limited Access Highways, Statewide	12/10/2014	12/10/2014
2013-089-CR	2013 Crack Sealing South & Central	12/10/2014	12/10/2014
2013-090-CR	2013 Crack Sealing North & East	12/11/2014	12/11/2014

ATTACHMENT 4B - RIDOT Final Inspections 2015
2015 FINAL INSPECTIONS

CONTRACT	PROJECT NAME /LOCATION	FINAL INSP. DATE	ACCEPTANCE OF OF WORK DATE
2011-002-CL	Dean Street, Cahir Street & Stewart Street Landscaping, Providence	3/10/2015	3/10/2015
2011-006-CE	Downtown Intermodal Park Comfort Station, South Kingstown	10/6/2015	
2011-013-CM	Statewide Guardrail Replacement & Repair 2011	4/7/2015	4/7/2013
2011-074-CM	Statewide Fence Replacement and Repair 2011	6/18/2015	6/18/2015
2011-081-CT	STC Traffic Signal Installations - Contract 4	8/25/2015	9/17/2015
2011-091-CL	Blackstone River Bikeway Segment 7A Landscape-Lincoln/N. Smith./Woon.	3/10/2015	3/10/2015
2012-001-CB	Replacement of Central Bridge #018201 & Access Improvements to Route 114, Barrington	8/20/2015	
2012-009-CL	Relocated Route 403 Phase 2 Landscape C-4	1/5/2015	1/5/2015
2012-030-CB	Ten Rod Road Bridge #591, Exeter	8/18/2015	
2012-060-CB	Bridge Preservation - Contract 1, Providence, Cranston, Warwick	7/21/2015	
2012-078-CB	New Providence Viaduct Southbound Bridge #578, Providence	8/5/2015	
2012-086-CB	Type 2 Emergency Replacement of Navigational Lighting for Henderson Bridge #600,	9/23/2015	
2012-090-CT	2013-2014 Statewide Pavement Striping - East Bay	5/26/2015	5/26/2015
2012-094-CT	High Risk Rural Roads Safety Improvements (HRRR/HSIP) Statewide	5/28/2015	
2012-103-CT	Highway Safety Improvement Program (HSIP) - Contract 4 - Central, Cranston	6/25/2015	
2012-104-CT	High Hazard - Intersection (South) Short Term Improvements, Coventry/East Greenwich/South	8/19/2015	
2013-004-CH	I-195 Relocation - Contract 14 (West Side City Streets), Providence	8/26/2015	
2013-007-CT	Statewide High Friction Surface Treatments (HSIP Funds)	8/6/2015	
2013-009-CH	1R Improvements to Elmwood Avenue (C-3), Providence	4/13/2015	
2013-014-CT	Dean Street & Cahir Street Lighting Improvements, Providence	9/15/2015	
2013-018-CH	Trestle Trail - East Section, Coventry	5/7/2015	9/4/2015
2013-056-CH	I-195 Relocation - Contract 15 (East Side City Streets)-Providence	9/16/2015	
2013-060-CT	State Traffic Commission - Contract 3, Cranston/Johnston	7/9/2015	
2013-062-CB	Magnolia Bridge #503 Removal, Providence	6/2/2015	
2013-063-CB	Morgan Avenue Bridge #109901, Johnston	7/30/2015	
2013-069-CH	Providence Roadway & Traffic Signal Improvements	6/11/2015	
2013-080-CB	Kent Dam Spillway Bridge #84 & Scituate Avenue 1R, Scituate	4/23/2015	9/5/2014
2013-083-CB	Barton Corner Bridge #518, East Greenwich/Warwick/West Warwick	5/5/2015	7/21/2015
2013-105-CT	Traffic Safety Improvements to Plainfield Pike at Interstate I-295 (HSIP Funds),	5/21/2015	
2014-004-CB	Replacement of Warren Avenue Ramp Bridge #465, East Providence	4/21/2015	10/30/2015
2014-011-CT	2014-2015 Statewide Pavement Striping - South	12/1/2015	
2014-012-CT	2014-2015 Statewide Pavement Striping - Central	12/2/2015	
2014-013-CT	2014 HSIP - Systemic Improvements (Wrong-Way Driving Mitigation) (HSIP Funds), Statewide	10/14/2015	
2014-014-CT	2014-2015 Statewide Pavement Striping - Limited Access	12/1/2015	
2014-015-CT	RI*STARS - Aquidneck Island - America's Cup Avenue & Memorial Blvd.Improvements (HSIP)	7/15/2015	11/2/2015
2014-018-CH	1R Improvements to Ocean Avenue, New Shoreham	11/19/2015	
2014-027-CB	Type 2 Emergency Repairs to Wampanoag Trail Bridge #477, East Providence	4/22/2015	5/13/2015
2014-031-CH	South County Bike Path Maintenance & Signing Contract, Narragansett/South Kingstown	4/14/2015	5/29/2015
2014-036-CH	Colt State Park Bike Path Connector, Bristol	9/22/2015	11/25/2015
2014-039-CH	1R Improvements to Mineral Spring Avenue, North Providence/Pawtucket	12/10/2015	
2014-044-CT	Roadway Safety Improvements to Route 102 (Burrillville), Route 146 (North Smithfield), &	4/9/2015	6/26/2015
2014-045-CH	Reconstructionn of Two Mile Corner - Stormwater Management Facility, Middletown	1/21/2015	
2014-049-CT	2014 Statewide Signing & Striping Improvements (HSIP Funds)	4/16/2015	
2014-054-CH	Interstate I-95 Drainage Repairs, West Warwick	6/17/2015	6/17/2015
2014-055-CH	Improvements to Route 146A & Park Avenue Intersection, North Smithfield	11/3/2015	
2014-057-CB	Repairs to Bald Hill Road Southbound Bridge #072221, Warwick	7/23/2015	9/24/2015
2014-060-CH	High Priority Limited Resurfacing of I-95, Cranston/Providence/Warwick	4/15/2015	7/3/2015
2014-061-CB	Concrete Beam Repairs to Kingston Station RR Bridge #372, South Kingstown	7/28/2015	10/5/2015
2014-064-CB	Bridge Demolition - Bradford Bridge #891 & Armstrong Bridge #893, Newport/Portsmouth	8/20/2015	
2014-069-CH	ADA Rehabilitation of Park & Ride Lots, Statewide	12/16/2015	
2014-070-CB	Repairs to Twin River Bridge #417, Lincoln	9/2/2015	9/24/2015
2014-073-CB	Coles Bridge #134 Priority Repair Contract, East Providence	5/14/2015	5/14/2015
2014-074-CH	Improvements to US Route 1, Charlestown	9/24/2015	
2015-016-CH	Statewide Drainage Improvements 2014 - Tower Hill Road, North Kingstown	12/15/2015	
2015-031-CH	Improvements to Route 4 - Contract 1, North Kingstown	12/8/2015	
2015-050-CH	Improvements to New River Road & Victory Highway, Burrillville/Lincoln	12/17/2015	
2015-079-CB	Type 1 Emergency Repairs to Henderson Bridge, Providence/East Providence	7/1/2015	
2012-036-DF	Statewide Bridge Scour Remediation - Contract 2	5/19/2015	5/19/2015

2013

CONTRACT #	FINAL INSP DATE		708.9040 CLEANING AND FLUSHING PIPE ALL SIZES	708.9041 CLEANING CATCH BASINS ALL TYPES AND SIZES	708.9042 CLEANING MANHOLES ALL TYPES AND SIZES
2010-CB-004	9/25/2013	I-95 Pawtucket Bridge #550	12,921	195	45
2010-CB-090	7/9/2013	Branch Ave Bridge #976	644	54	6
2010-CT-069	10/15/2013	Green End Ave/Valley Rd	1,556	4	2
2011-CB-041	10/30/2013	Orms St Bridge #702	0	11	0
2011-CB-083	4/9/2013	Ten Mile River Bridges #478 & 479	3,084	27	21
2011-CH-019	3/27/2013	Route 102 C-2	45,500	126	78
2011-CH-043	3/13/2013	Waterfront Drive - Warren Ave to Dexter Rd	1,200	7	2
2011-CH-102	8/22/2013	Route 146A	6,460	64	32
2011-CH-108	8/14/2013	Route 138 - NK	15,943	62	10
2012-CB-054	6/26/2013	Pascoag Bridge #198	0	5	0
2012-CH-005	10/22/2013	West Main Rd C-3	11,000	80	9
2012-CH-007	1/9/2013	Fruit Hill Ave C-2	0	1	2
2012-CH-040	8/28/2013	Statewide Drainage 2012 C-1	73	2	2
2012-CH-101	6/19/2013	Rt 1 Emergency Repairs at Woodruff	347	2	0
2012-CT-016	8/7/2013	Route 102 NK -Left Turn lanes	913	11	0
2013-CH-015	12/12/2013	1R Central Ave/Sunset Ave	4,527	48	0
2013-CH-021	12/10/2013	1R Post Rd Warwick	2,917	24	1
2013-CH-036	12/3/2013	Statewide Drainage 2013 C-1	0	1	0
	TOTAL		107,085	724	210

2014

CONTRACT #	FINAL INSP DATE		708.9040 CLEANING AND FLUSHING PIPE ALL SIZES	708.9041 CLEANING CATCH BASINS ALL TYPES AND SIZES	708.9042 CLEANING MANHOLES ALL TYPES AND SIZES
2008-CB-056	5/1/2014	Replacement of Sakonnet River Bridge #250 (Steel Option), Portsmouth/Tiverton	4,800	35	15
2011-CB-011	9/24/2014	I-295 Safety & Bridge C-3B, Bridge #750-Cumb./Lincoln/Smith.	7,195	148	3
2011-CB-096	6/5/2014	Natick Bridge #383-Warwick/West Warwick	360	5	3
2011-CH-027	8/20/2014	Coventry Greenway Bikepath - West (WSB Facility C-5)-Coventry	0	2	0
2011-CT-109	9/30/2014	Division Street Access Improvements EARMARK Funds. Design Funded by NE Tech/Construction by RIDOT, East Greenwich	395	5	0
2012-CB-030	5/29/2014	Ten Rod Road Bridge #591, Exeter	1,040	15	0
2012-CH-006	7/1/2014	1R Elm Street, Beach Street, Railroad Avenue, West Street, Dixon Street, & Granite Quarry Bridge #854, Westerly	2,372	29	24
2012-CH-018	10/14/2014	Route 165 Reclamation, Exeter	7,849	3	0
2012-CH-050	6/10/2014	ADA - Metacom Avenue, Warren	12,500	42	56
2012-CH-056	5/8/2014	1R Improvements to Route 44, Contract3C, Chepachet	1,360	28	8
2012-CH-067	7/2/2014	Improvements to Route 216, Hopkinton	2,866	0	0
2012-CH-082	9/4/2014	Improvements to Route 44 Contract 2B - Austin Avenue to Danecroft Avenue, Smithfield	3,870	64	12
2013-CH-075	11/18/2014	I-295 Ramps Resurfacing Warwick to MA State Line, Statewide	0	418	10
2013-CH-107	9/16/2014	2013 Statewide Resurfacing Program	0	107	0
2013-CT-093	10/15/2014	State Traffic Commission - Contract 2 South, Statewide	1,337	12	6
2014-CH-019	10/2/2014	Improvements to Jamestown Stormwater Pump Station, Tank Cleaning, & Inspection - Contract C-1, Jamestown	13,034	133	10
	TOTAL		58,978	1,046	147

2015

CONTRACT #	FINAL INSP DATE		708.9040 CLEANING AND FLUSHING PIPE ALL SIZES	708.9041 CLEANING CATCH BASINS ALL TYPES AND SIZES	708.9042 CLEANING MANHOLES ALL TYPES AND SIZES
2012-CB-001	8/20/2015	Replacement of Central Bridge #018201 & Access Improvements to Route 114, Barrington	340	6	0
2012-CB-030	8/18/2015	Ten Rod Road Bridge #591, Exeter	1,040	15	0
2012-CB-078	8/5/2015	New Providence Viaduct Southbound Bridge #578, Providence	1,244	16	7
2012-CT-103	6/25/2015	Highway Safety Improvement Program (HSIP) - Contract 4 - Central, Cranston	2,243	21	12
2012-CT-104	8/19/2015	High Hazard - Intersection (South) Short Term Improvements, Coventry/East Greenwich/South Kingstown/Warwick/West Warwick	2,000	43	5
2013-CB-080	4/23/2015	Kent Dam Spillway Bridge #84 & Scituate Avenue 1R, Scituate	0	10	0
2013-CB-083	5/5/2015	Barton Corner Bridge #518, East Greenwich/Warwick/West Warwick	3,830	32	0
2013-CH-004	8/26/2015	I-195 Relocation - Contract 14 (West Side City Streets), Providence	249	32	13
2013-CH-009	4/13/2015	1R Improvements to Elmwood Avenue (C-3), Providence	4,135	290	86
2013-CH-056	9/16/2015	I-195 Relocation - Contract 15 (East Side City Streets)-Providence	1,243	74	17
2013-CH-069	6/11/2015	Providence Roadway & Traffic Signal Improvements	6,273	101	125
2013-CT-060	7/9/2015	State Traffic Commission - Contract 3, Cranston/Johnston	1,121	18	6
2013-CT-105	5/21/2015	Traffic Safety Improvements to Plainfield Pike at Interstate I-295 (HSIP Funds), Cranston/Johnston	0	24	0
2014-CB-004	4/21/2015	Replacement of Warren Avenue Ramp Bridge #465, East Providence	0	8	0
2014-CB-057	7/23/2015	Repairs to Bald Hill Road Southbound Bridge #072221, Warwick	30	0	0
2014-CB-064	8/20/2015	Bridge Demolition - Bradford Bridge #891 & Armstrong Bridge #893, Newport/Portsmouth	443	5	0
2014-CH-018	11/19/2015	1R Improvements to Ocean Avenue, New Shoreham	61	8	0
2014-CH-036	9/22/2015	Colt State Park Bike Path Connector, Bristol	20	1	0
2014-CH-039	12/10/2015	1R Improvements to Mineral Spring Avenue, North Providence/Pawtucket	5,040	64	23
2014-CH-045	1/21/2015	Reconstruction of Two Mile Corner - Stormwater Management Facility, Middletown	131	1	0
2014-CH-054	6/17/2015	Interstate I-95 Drainage Repairs, West Warwick	918	7	0
2014-CH-055	11/3/2015	Improvements to Route 146A & Park Avenue Intersection, North Smithfield	482	10	1
2014-CH-069	12/16/2015	ADA Rehabilitation of Park & Ride Lots, Statewide	1,800	20	0
2014-CH-074	9/24/2015	Improvements to US Route 1, Charlestown	12,710	127	3
2014-CT-015	7/15/2015	RI*STARS - Aquidneck Island - America's Cup Avenue & Memorial Blvd.Improvements (HSIP Funds), Newport	20,000	81	0
2015-CH-016	12/15/2015	Statewide Drainage Improvements 2014 - Tower Hill Road, North Kingstown	0	5	0
2015-CH-031	12/8/2015	Improvements to Route 4 - Contract 1, North Kingstown	6,373	47	0
2015-CH-050	12/17/2015	Improvements to New River Road & Victory Highway, Burrillville/Lincoln	237	11	5
	TOTAL		71,963	1,077	303

ATTACHMENT 6B - RIDOT Sweepers - GPS Installs

Installation of GPS tracking units on RIDOT Sweeping Fleet

REGISTRATION	YEAR	MAKE	MODEL	ASSIGNED FACILITY	INSTALL LOCATION	ADDRESS	INSTALL DATE	STATUS
1129	2004	ELGIN	S9209D	BELLEVILLE	BELLEVILLE	439 Tower Hill Road, North Kingstown, RI 02852	3/9/2015	COMPLETE
2831	2014	ELGIN	NP30108	BELLEVILLE	BELLEVILLE	439 Tower Hill Road, North Kingstown, RI 02852	3/9/2015	COMPLETE
442	2006	ELGIN	S9259D	BELLEVILLE	HQ	360 Lincoln Ave, Warwick, RI 02888-March 5th install	3/5/2015	COMPLETE
389	2006	ELGIN	S9358D	EAST PROV	HQ	361 Lincoln Ave, Warwick, RI 02888-March 5th install	3/13/2015	COMPLETE
1768	2014	ELGIN	NP30109	EAST PROV	HQ	360 Lincoln Ave, Warwick, RI 02888-March 5th install	3/5/2015	COMPLETE
423	2014	ELGIN	NP30338	GLOCESTER	GLOCESTER	648 Putnam Pike, Glocester, RI 02814	3/10/2015	COMPLETE
2898	2004	ELGIN	S9207D	GLOCESTER	GLOCESTER	648 Putnam Pike, Glocester, RI 02814	3/10/2015	COMPLETE
1647	2014	ELGIN	NP30337	HOPE VALLEY	HOPE VALLEY	51 Bank Street, Hope Valley, RI 02832	3/11/2015	COMPLETE
302	2006	ELGIN	S9386D	HOPE VALLEY	HOPE VALLEY	51 Bank Street, Hope Valley, RI 02832	3/11/2015	COMPLETE
2209	2003	ELGIN	S9132D	HOPE VALLEY	HQ	360 Lincoln Ave, Warwick, RI 02888-March 5th install	3/5/2015	COMPLETE
2326	2004	ELGIN	S9208D	MID STATE	HQ	360 Lincoln Ave, Warwick, RI 02888-March 5th install	3/5/2015	COMPLETE
348	2006	ELGIN	S9385D	MID STATE	MID STATE	2400 New London Turnpike, East Greenwich, RI 02818	3/12/2015	COMPLETE
1453	2014	ELGIN	NP30336	MID STATE	MID STATE	2400 New London Turnpike, East Greenwich, RI 02818	3/12/2015	COMPLETE
390	2006	ELGIN	S9348D	PORTSMOUTH	PORTSMOUTH	Anthony Road, Portsmouth, RI 02817	3/13/2015	COMPLETE
422	2014	ELGIN	NP30340	PORTSMOUTH	PORTSMOUTH	Anthony Road, Portsmouth, RI 02817	3/13/2015	COMPLETE
300	2014	ELGIN	NP30339	SMITHFIELD	SMITHFIELD	395 George Washington Highway, Smithfield, RI 02917	3/16/2015	COMPLETE
366	2006	ELGIN	S9360D	SMITHFIELD	SMITHFIELD	395 George Washington Highway, Smithfield, RI 02917	3/16/2015	COMPLETE
1826	2003	ELGIN	S9133D	SMITHFIELD	SMITHFIELD	395 George Washington Highway, Smithfield, RI 02917	3/16/2015	COMPLETE



Department of Transportation
Division of Highway and Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888

August 28, 2015

Attention: Interested Suppliers of Snow/Ice Control Services

**Subject: Registration Materials for 2015-2016 Winter Season
Including Rate and Incentive Information**

Dear Madam or Sir:

The Rhode Island Department of Transportation is now seeking qualified and interested snow and ice professionals to assist with our statewide operations for the winter of 2015-2016. As we prepare for the upcoming season we want to bring your attention to several ongoing initiatives:

Closed Loop Spreader Control Systems

Starting in 2012, RIDOT began outfitting its own winter fleet with new spreader controls that incorporated GPS and wireless technologies. This program required a significant investment by the Department but has resulted in financial savings and reduced our overall impact on the environment. With salt (sodium chloride) representing the most expensive part of snow and ice operations, we have been able to reduce our potential expenses. This season we will have 100% of our fleet* outfitted with this equipment!

In the past two seasons RIDOT has offered a significant incentive for vendors who outfit their equipment* with these controllers and the incentive remains available this season. As we move our snow and ice operations forward this may become a requirement and other financing or rebate programs may be offered and we will continue to keep the vendor community updated to any further developments.

(* - GVW greater than 16,000 pounds and spreader greater than 3.0 cubic yards)

Salt Brine

Starting in 2013, RIDOT began using salt brine for anti-icing and pre-wetting applications. We currently have one brine production unit at our Midstate Facility in East Greenwich which can produce close to 5,000 gallons per hour with salt brine storage available at most of our storage facilities. In order to expand this initiative, which is a much improved method of anti-icing versus using solid materials, we will be working to expand our production abilities in the coming years and will continue to have a need for assistance with application and perhaps hauling between storage sites.

Snow & Ice Operations Training

In order to continue to provide the high level of service that Rhode Islanders have come to expect of our snow and ice operations, we must all continue to train and educate ourselves about the industry standards and new technologies. A great source of information and recommended reading for all snow and ice professionals is the *Snowfighters Handbook*.

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Division of Highway and Bridge Maintenance
360 Lincoln Avenue
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The 2015-2016 registration package and application are available at all RIDOT Maintenance Facilities and Headquarters. You may also find the information and an electronic version of the application on the Department's website www.dot.ri.gov.

Should you have any questions regarding this registration process, please contact our Business Office at (401) 734-4832. We look forward to working with you toward the common goal of providing safe highway conditions for the Rhode Island motoring public.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Bucci', is written over a white background. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Joseph A. Bucci, P.E.
Acting Administrator

The State of Rhode Island is an Equal Opportunity Employer



State of Rhode Island and Providence Plantations

Department of Transportation
 Division of Highway & Bridge Maintenance
 360 Lincoln Avenue
 Warwick, RI 02888-3030

Winter Vendor Registration Materials
Owner/Vendor Agreement
(I-Form)
2015-2016 Version

Conditions Covering Compensation

1. Hired equipment shall be required to punch a timecard in and out of the facility reported to. Compensated time shall begin only when the hired equipment is on State time designated by the timecard. In instances where the vendor is advised by the Department to report directly to the stockpile, his/her equipment may be "punched-in" by the clerk at the hiring facility when contacted by the operator or foreman at the stockpile. No compensatory time is allowed for the attachment or detachment of plowing equipment, travel, standby, breakdown, or meals.
2. Hired equipment shall meet or exceed minimum safety standards. Safety lighting on all hired equipment shall conform to all State and Federal requirements. The Department reserves the right to refuse the use of a piece of hired equipment if, in the opinion of the supervisor, the equipment is not able to do the job required. To qualify for approval your vehicle(s) shall pass a pre-season inspection with all equipment attached. The vendor shall contact one of the Department's Maintenance Facilities to schedule this inspection.
3. To ensure adequate response, all vehicles shall be equipped with a mobile telephone. The contact information for each vehicle shall be supplied on the E-Form provided.
4. All vendors and operators are required to follow RIDOT's instructions pertaining to snow and ice operations and only plow and apply materials along designated roadways. Failure to comply with RIDOT's instructions and conditions shall be documented and may result in suspension or termination of this Agreement.
5. It is strongly recommended that spreaders be equipped with automated synchronization (ground speed control) and adjustable controls in the cab of the truck.
6. All rates in this Agreement include the equipment, accessories, licensed qualified operators and operating costs, including but not limited to insurance, registration fees, maintenance, repairs and fuel. All equipment must arrive with fuel, in good working condition, and with all reimbursable accessories functioning properly.
7. In compliance with Title VI of the Civil Rights Act of 1964 and the Department's Title VI/Nondiscrimination Program, no person shall, on the grounds of race, color, sex, national origin, age, or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination.
8. Acceptable closed loop spreader control systems shall be fully calibrated, ground speed oriented devices with AVL/GPRS, and provide the ability of reporting material application rates in pounds per lane mile in time increments of five minutes or less. RIDOT shall have full access to the reports whether via an internet connection or be provided with printable reports upon request. Calibrated application rates shall range from 50 – 500 pounds per lane mile, with the average rate of application of straight salt averaging between 200-250 pounds per lane mile.

Re: Winter Vendor Registration Materials
 Date: August 7, 2015
 Page: 2 of 4

9. Trucks equipped with accepted, operational, and properly calibrated (properly documented on Attachment I of this package) closed loop spreader control systems will be placed on a "preferred call-in" list. These trucks will be amongst the first tier of equipment utilized by RIDOT as part of its winter operations.
10. In order to reduce the amount of snow and ice pushed off of bridges onto the roadways or railroad tracks below, all snow and ice vendors shall use extreme caution and reduced speed when plowing across overpasses.

Global Positioning System (GPS)

RIDOT, at its discretion, may issue GPS equipment to a Vendor. The GPS system will be utilized as a way to increase safety, track vehicle location and redeploy or dispatch equipment. RIDOT will not use the GPS as a method of payment unless requested by the Vendor to verify time and location.

Upon issuance of said GPS equipment, RIDOT shall further provide, under separate agreement to the Vendor the terms and conditions on the operational use and maintenance responsibility for said GPS equipment. The GPS Agreement shall be incorporated into and made part of this agreement.

The following forms shall be completed by the Owner and submitted to the Department

1. The E-Form, listing equipment and accessories that are available for hire by the State of Rhode Island, using the codes and rates found on the R-Form. The Owner shall sign the E-Form and have his/her signature notarized. The original E-Form shall be submitted to the Department for its use.
2. Enclose copies of valid registrations for vehicles and copies of bills of sale, titles or other proof of ownership for non-registered equipment.
3. Enclose a valid Certificate of Insurance from your insurance company designating:

RI Department of Transportation
 Highway & Bridge Maintenance Division
 360 Lincoln Avenue
 Warwick, RI 02888

as the holder, and also as Additional Insured. The Certificate of Insurance shall clearly show itemized coverage of commercial insurance coverage for:

- a. General Liability of at least \$1,000,000.00 (One million dollars) for off-road equipment (e.g. loaders, excavators, backhoes)
 - b. Auto Liability of at least \$1,000,000.00 (One million dollars) for on-road equipment (e.g. pick-ups, 6-wheelers, 10-wheelers)
 - c. Worker's Compensation
4. The Department shall be notified of any and all changes made involving vehicles and/or accessories and/or changes of address.
 5. Vendors who do not supply the necessary forms and information will not be eligible for service.

Reporting to Work and Payment Processing

1. When a vendor is called to start work, they will be offered a minimum of four (4) hours of work. Their driver shall "punch-in" within one (1) hour of the vendor's receiving the call to report. Failure to report within one (1) hour of call-in will annul the four hour minimum guarantee.

Re: Winter Vendor Registration Materials
 Date: August 7, 2015
 Page: 3 of 4

2. When a vendor is notified to end work, RIDOT personnel will simultaneously "punch-out" the time card.
3. At the end of each event, all vendors and operators are required to return to their designated stockpile and return any unused material, if applicable. Applying excess material onto the roadway as a method of spinning off unused material is not allowed.
4. Timecards will be processed by the Department and its personnel will ensure payments are based upon the approved hourly rates and bonus percentages if applicable.
5. Invoices from the vendor will not be necessary.
6. In the event the vendor's equipment or accessory breaks down during a storm, its hourly rate will be adjusted to reflect only the working equipment and/or accessories.

Safety Requirements

1. Any vendor or operator who must exit their vehicle for an emergency repair, or for any other reason, within the State Highway Right of Way, is required to wear a reflectorized ANSI Class III safety vest while outside their vehicle/equipment.
2. All vehicles and equipment utilized through this Agreement shall be equipped with the following minimum safety equipment:
 - a. One six-inch amber flashing light, mounted on the highest practical point of each vehicle. The light must be visible for a distance of 300 feet, during daylight hours, from the front, rear and both sides of the vehicle. Vehicles that have a body or attachment that extends above the head of the cab must mount the lighting on a bracket or other device to extend the lighting above the body or attachment.
3. The owner is responsible to ensure that all vehicles conform to applicable USDOT and/or OSHA regulations pertaining to reverse signal alarms and lighting. For more information please refer to:
 - a. 29 CFR 1926.601-602
 - b. RIGL 31-24-31, Flashing Lights – Forward Viewing or Rotary Beam Lights
 - c. RIGL 31-24-46: Lights On Snow Removal Equipment
 - d. The Federal Highway Administration has regulations that require employers with drivers of commercial vehicles to have an alcohol and drug-testing program in place. The specific provisions of the regulations are highly detailed and legally complex. RIDOT strongly urges each owner to review the regulations, which are cited as 49 CFR Part 382 (www.fmcsa.dot.gov/rulesregs/fmcsr/regs/382.htm).
4. In the event that a vendor or operator is involved in an incident (i.e., accident, collision, etc.), while working for RIDOT, the operator or a representative of the vendor shall notify the District Superintendent immediately (in a safe manner). All incidents shall be reported to the Rhode Island State Police (RISP) so that an Accident Report may be prepared. Following the incident, the operator shall provide RIDOT with a copy of the accident report. Failure to notify the RISP and RIDOT will result in suspension or termination of the Agreement.
5. Operators are reminded to wear their safety belt at all times and that texting while driving is prohibited. In addition, the use of a mobile phone should be limited as much as possible while operating.
6. Operators shall follow/adhere to/observe all applicable State and Federal laws, rules and regulations.

License, Registration and Insurance Requirements

1. The owner is required to verify the license status of all vehicle or equipment operators and is prohibited from using unlicensed operators in the performance of this Agreement. The owner is further obligated to report the loss, revocation or suspension of any operator's license during the term of this agreement.
2. During the term of this agreement, each owner shall maintain a current vehicle registration for the specified equipment. Passenger vehicle registrations are not allowed on any vehicles listed. Out-of-state registrations are allowed, but they must meet all the requirements of the Rhode Island Division of Motor Vehicles and all other motor vehicle laws. The owner shall promptly forward a copy of any new or revised registration or insurance of listed equipment to the Maintenance District Superintendent.
3. The vendor shall be in compliance with the applicable provisions of the State Workers' Compensation Insurance. The owner agrees to accept all responsibility for liabilities incurred by the rented equipment during the term of operations to which it is assigned. The owner further agrees that the Rhode Island Department of Transportation, the Director, his agents, and employees shall be held harmless from any and all claims and actions whatsoever that arise from his/her operations.
4. The owner is responsible to ensure that all equipment listed in this Agreement is legally insured as required by all Rhode Island laws and regulations. Owners shall be responsible for damage to private property, including but not limited to: landscaping, mailboxes, windshields, etc.



State of Rhode Island and Providence Plantations

Department of Transportation
 Division of Highway & Bridge Maintenance
 360 Lincoln Avenue
 Warwick, RI 02888-3030

Incentives

Eligibility for compensation arrangements is as follows:

10% Early Sign-Up Incentive

Properly completed, original, notarized E-Form and all necessary documentation shall be submitted to and received by the RIDOT Division of Highway & Bridge Maintenance as described in the enclosed instruction **by 4:00PM on Friday, October 30, 2015.**

5% Early Sign-Up Incentive:

Properly completed, original, notarized E-Form and all necessary documentation shall be submitted to and received by the RIDOT Division of Highway & Bridge Maintenance as described in the enclosed instruction **by 4:00PM on Friday, November 13, 2015.**

20% Green Equipment Incentive

1. Properly installed and operational AVL/GPRS closed loop spreader control systems which allow for reporting of solid material (sand, salt and/or mix) in a printable format will be eligible. The equipment shall be acceptable to RIDOT in order to be eligible for this incentive. This bonus is only applicable to vehicles which exceed a GVW of 16,000 pounds and have a spreader larger than 3.0 cubic yards.
2. This bonus shall be added upon acceptance and approval by RIDOT and will be in effect for the remainder of the winter season.
3. RIDOT will maintain a preferred vendor call-in list for trucks which are equipped with an acceptable closed loop spreader control system.
4. The closed loop systems will have data logging capabilities and shall include at a minimum, but not limited to the following data: Pounds or Tons of Material Applied, Types of Material, Gallons of Liquid Dispensed, Miles Traveled, Location of Dispensed Material, Lane Miles Applied, Time of Application, and Application Rates.

The incentive for each inspected vehicle will remain in effect as long as the vehicle is ready when called. Vendors must reliably and consistently respond to calls for work from the Division of Highway & Bridge Maintenance in a timely manner throughout the winter season. If at any time the vehicle is not available, it will lose its incentive, and possibly subsequent work assignments, for the remainder of the winter season. Should there be extraordinary or extenuating circumstances, the vendor shall demonstrate this in correspondence directed to the Highway & Bridge Maintenance Division Administrator, whose management staff will determine whether to accept or reject such documentation. The decision of the Administrator will be final.

2015-2016 (FY2016)

ATTACHMENT 6C - RIDOT Winter Vendor Green Incentives

Hourly Rates for Hired Equipment

Code	Equipment	Gross Weight Per Vehicle Registration	Hourly Base Rate	FY2016 Rates
				With Approved Green Equipment Incentive
10000	Truck	5,500 - 8,500 GVW ¹	\$46.55	-
20000	Truck	8,501 - 10,999 GVW	\$51.45	-
30000	Truck	11,000 - 16,000 GVW	\$55.13	-
40000	Truck	16,001 - 27,000 GVW	\$61.25	\$73.50
50000	Truck	27,001 - 36,000 GVW	\$72.28	\$86.73
60000	Truck	36,001 - 45,000 GVW	\$75.95	\$91.14
70000	Truck	45,001 - 59,000 GVW	\$82.08	\$98.49
80000	Truck	59,001 GVW or Greater	\$86.98	\$104.37
90000	Front-End Loader	2.5 CY - 3.9 CY	\$112.70	-
100000	Front-End Loader	4.0 CY - 5.9 CY	\$126.18	-
110000	Front-End Loader	6.0 Cubic Yards or Greater	\$140.88	-
120000	Excavator, Hydraulic	Bucket Capacity 1.0 - 2.5 CY	\$79.63	-

Add the following amounts to equipment rates for these accessories:

Code	Accessory	Add On	FY2016 Rates
			With Approved Green Equipment Incentive
01	All-Wheel Drive (Only for Codes 10000 - 80000)	\$8.58	-
10	Ground-Speed Oriented Controls ²	\$9.80	-
Plows			
100	Less than 9.0 Feet	\$4.90	-
200	9.0 Feet - 9.9 Feet	\$6.13	-
300	10.0 Feet - 10.9 Feet	\$8.58	-
400	11.0 Feet or Greater	\$11.03	-
500	Power Reversible Plow	\$2.45	-
600	Single Wing Plow	\$24.50	-
700	Double Wing Plow Combination	\$42.88	-
Material Spreaders/Liquid Chemical Trucks ³			
1000	Less Than 3.0 Cubic Yards	\$8.58	-
2000	3.0 CY - 5.9 CY	\$14.70	\$17.64
3000	6.0 CY - 9.9 CY	\$20.83	\$24.99
4000	10.0 CY - 13.9 CY	\$24.50	\$29.40
5000	14.0 CY or Greater	\$28.18	\$33.81
6000	6.0 CY - 9.9 CY WITH 150 Gallon Saddle Tanks	\$30.63	\$36.76
7000	10.0 CY - 13.9 CY WITH 150 Gallon Saddle Tanks	\$42.88	\$51.46
7500	14.0 CY or Greater WITH 150 Gallon Saddle Tanks	\$49.32	\$59.18
8000	500 - 999 Gallon Liquid Tanker*, Capable of Applying 2 Lanes	\$22.05	\$26.46
9000	1000 Gallon or Greater Liquid Tanker*, Capable of Applying 2 Lanes	\$34.30	\$41.16

Additional Vehicle/Equipment Codes			
Code			
200000	10-Wheel Dump	10-Wheel Dump - Hauling	\$79.63
210000	Tri-Axle Dump	Tri-Axle Dump - Hauling	\$85.75
220000	Trailer Dump	Trailer Dump - Hauling	\$91.88
230000	Tanker	5000 Gallon or greater - Hauling	\$89.00

300000	Bombardier with Snow Blower	\$80.00	-
310000	Bobcat with Snow Blower Attachment	\$110.00	-
320000	Small Highway Snow Blower - motorized 6'	\$200.00	-
330000	Medium Highway Snow Blower - motorized 7'	\$240.00	-
340000	Large Highway Snow Blower - motorized 8'	\$280.00	-
350000	Front-End Loader w/ Motorized Highway Snow Blower Attachment	\$350.00	-

Specialized Labor/Crew Codes			
400000	Sidewalk Crew A - 2 Persons, Pick-Up Truck (10000 Vehicle Code), Snow Blower, Shovels and 5 Extra Pins	\$150.00	-
410000	Sidewalk Crew B - 3 Persons, Pick-Up Truck (30000 Vehicle Code with AWD), Trailer, Bobcat w/Snow Blower Attachment, Snow Blower, Shovels and 5 Extra Pins	\$245.00	-
420000	Amtrak Safety Certified Laborer w/Walk Behind Snow Blower (Proof of Amtrak certification required for each laborer required at sign-up)	\$80.00	-

Notes:

- ¹ - This size vehicle (Code 10000) must have All-Wheel Drive.
- ² - You must annually provide an original certificate of calibration showing that this spreader has been calibrated for the truck on which it will be used. The Department will perform periodic inspections for proper application rate. Payment will not include this code unless the spreader is calibrated.
- ³ - Manufacturer's water level capacity of body without side boards. Body type spreaders shall be capable of applying various materials at various spreading rates.
- * - Tanker trucks shall be equipped to properly haul and apply salt brine at RIDOT specified application rates based on gallons per lane mile. Trucks shall be equipped with ground speed oriented controls.



State of Rhode Island and Providence Plantations

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 Division of Highway & Bridge Maintenance
 360 Lincoln Avenue
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Inspections

1. All vehicles and related equipment/accessories shall be inspected prior to participating in the 2015-2016 winter season.
2. Each vehicle and related equipment/accessories shall pass an inspection by an authorized RIDOT designee at a local RIDOT Maintenance Facility. Vendors shall contact the facilities listed below in order to schedule an appointment. Inspections may be scheduled to take place Monday through Friday between the hours of 7:00AM – 2:00PM, with no inspections occurring on designated State holidays (Columbus Day, October 12; Veterans' Day, November 11; Thanksgiving Day, November 26; Christmas Day, December 25).
3. At the time of inspection, the owner shall provide the RIDOT representative with an approved Certificate of Spreader Calibration/Calibration Chart (for conventional spreaders) or the Closed Loop Ground Speed Control System Calibration and Data Verification Form (Attachment I, for closed loop control systems). These forms shall be completed PRIOR to the RIDOT inspection and submitted to the RIDOT representative at the time of inspection.
4. Upon successful inspection, the RIDOT representative will approve the RIDOT Equipment Inspection Form and return it to the owner. This form shall then be included with the rest of the application package.

<u>Facility</u>	<u>Address</u>	<u>Telephone Number</u>
Belleville	439 Tower Hill Road, North Kingstown	(401) 294-9613
East Providence	691 Warren Avenue, East Providence	(401) 431-5401
Glocester	648 Putnam Pike, Glocester	(401) 568-5373
Hope Valley	51 Bank Street, Hope Valley	(401) 539-2991
Midstate	2400 New London Avenue, East Greenwich	(401) 826-0573
Smithfield	395 George Washington Hwy., Smithfield	(401) 231-4502
Portsmouth	171 Anthony Road, Portsmouth	(401) 683-1070

Vendor Registration Application

1. Owner Information (For Vendor Registration and Payments)

Name:	RI Snow Removal		
Address:	123 Main Street		
City/Town:	Anytown, RI	Zip Code:	12345
If vehicle(s) is/are owned by an individual, you must supply the owner's Social Security Number (SSN):			
SSN:			
If vehicle(s) is/are owned by a company, you must provide the Employer Identification Number (EIN):			
EIN:	20-1234567		

2. Contact Information (For Application Questions and Storm Assignments)

24-Hour Emergency Telephone Number:	Bob - (401) 641-5555
Direct Connect Number:	Bob - 180*85*124
Other Contact Information:	Bob (Home) (401) 734-5555
Email Address	Bob@plowoperator.com

3. Vehicle Information (For Registration and Billing Use)

Class Code	Make	Year	Registration	Accessory Codes		Base Hourly Rate
40000	Mack	2005	91234	400	6000	\$ 102.90
10000	Ford	2008	9876	10	200	\$ 62.48
<div style="border: 2px solid black; padding: 10px; background-color: #e0e0e0;"> <p>EXAMPLE SHEET DO NOT FILL OUT</p> <p>SEE FOLLOWING SHEET (E-FORM) FOR APPLICATION</p> </div>						

In signing this application, I certify that I have read, understand and agree to comply with any and all directives contained

Owner's Signature: Date: 9/10/2015

Notary Public: Date: 9/10/2015

Notary Public acknowledges the Owner's personal signature

Vendor Registration Application

1. Owner Information (For Vendor Registration and Payments)

Name:

Address:

City/Town: Zip Code:

If vehicle(s) is/are owned by an individual, you must supply the owner's Social Security Number (SSN):

SSN:

If vehicle(s) is/are owned by a company, you must provide the Employer Identification Number (EIN):

EIN:

2. Contact Information (For Application Questions and Storm Assignments)

24-Hour Emergency Telephone Number:

Direct Connect Number:

Other Contact Information:

Email Address:

3. Vehicle Information (For Registration and Billing Use)

Class Code	Make	Year	Registration	Accessory Codes			Base Hourly Rate

In signing this application, I certify that I have read, understand and agree to comply with any and all directives contained

Owner's Signature: Date:

Notary Public: Date:

Notary Public acknowledges the Owner's personal signature

CALIBRATION CHART (US) for Class Incentives

Agency: _____
 Location: _____
 Truck No: _____ Spreader No: _____
 Date: _____ By: _____

Gate Opening (Inches) (Hopper Type Spreaders)			DISCHARGE RATE (pounds discharged per mile)									
Control Setting	TRAVEL SPEED AND COMPUTATION MULTIPLIER ()			5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph
	A	B	C	(x 12.00)	(x 6.00)	(x 4.00)	(x 3.00)	(x 2.40)	(x 2.00)	(x 1.71)	(x 1.50)	(x 1.33)
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												

THE ACTUAL APPLICATION RATE (POUNDS PER LANE MILE) ON THE HIGHWAY IS THE DISCHARGE RATE DIVIDED BY THE NUMBER OF LANES BEING TREATED

SPREADER CALIBRATION PROCEDURE

Calibration is simply calculating the pounds per mile discharged for each control setting at various travel speeds by first counting the number of auger or conveyor shaft revolutions per minute, measuring the weight of salt discharged in one revolution, then multiply the two to obtain discharge per minute, and finally multiplying the discharge per minute by the time it takes to travel 1 mile. Most spreaders have multiple gate openings; so you must calibrate for specific gate openings.

- Equipment needed:**
1. Scale to weigh salt
 2. Salt collection device
 3. Marking device
 4. Watch with second hand

- Calibration steps:**
1. Remove, by-pass or turn off spinner.
 2. Warm truck's hydraulic oil to normal operating temperature with spreader system running.
 3. Put partial load of salt on truck.
 4. Mark shaft end of auger or conveyor.
 5. Dump salt on auger.
 6. Rev truck engine to operating RPM.
 7. Count number of shaft revolutions per minute at each spreader control setting, record.
 8. Collect salt discharged for one revolution, weigh it and deduct the weight of the container. (For greater accuracy, collect salt for several revolutions and divide by that number of revolutions to get the weight for one revolution.)
 9. Multiply Column A by Column B to get Column C; then multiply Column C by the number of minutes to travel one mile () at various truck speeds to get pounds Discharged per mile.*

CALIBRATION OF AUTOMATIC CONTROLS

- Automatic controls may be calibrated using the following steps:
1. Remove, by-pass or turn of spinner.
 2. Set control on given number.
 3. Tie sack or heavy canvas under spreader discharge area.
 4. Mark specific distance on a highway or other paved area, such as 1000 ft. .
 5. Drive that distance with spreader operating.
 6. Weigh salt collected.
 7. Multiply weight of salt by 5.28 (in case of 1000 ft.).

Answer will be salt discharged per mile which remains constant regardless of speed, but calibration must be done for each control setting. Some automatic control manufacturers have "simulators" which eliminate need for on-road operation for calibration.

ATTACHMENT I

Closed Loop Ground Speed Control System Calibration and Data Verification Form

Depot: _____ Date: _____

Contractor's Name:

Vehicle Information

Equipment No. _____

Registration No. _____ Year: _____

Make: _____ Model: _____

Spreader Equipment

Make: _____

Model/Serial No.: _____

Closed Loop Ground Speed Control System

Make: _____

Model/Serial No.: _____ Gate Opening: _____

the RIDOT's Policy and Procedures relative to Snow and Ice Operations. RIDOT shall require the transfer of the data gathered by having a closed loop ground speed control system. This information may be transferred by either electronic download or paper print-out at the contractor's discretion at the end of each event. The closed loop systems will have data logging capabilities and shall include at a minimum, but not limited to, the following data: Pounds or Tons of Material Applied, Types of Material, Gallons of Liquid Dispensed, Miles Traveled, Location of Dispensed Material, Lane Miles Applied, Time of Application, Application Rates. The information shall be provided (by the Vendor) to the timekeeper or other RIDOT representative at the Depot. All pre-wetting systems shall be equipped with a flow meter to accurately dispense deicing chemical. All information gathered shall remain the property of RIDOT and used at its discretion.

ATTACHMENT STATE OF RHODE ISLAND Green Incentives
FORM W-9 PAYER'S REQUEST FOR TAXPAYER
IDENTIFICATION NUMBER AND CERTIFICATION



THE IRS REQUIRES THAT YOU FURNISH YOUR TAXPAYER IDENTIFICATION NUMBER TO US. FAILURE TO PROVIDE THIS INFORMATION CAN RESULT IN A \$50 PENALTY BY THE IRS. IF YOU ARE AN INDIVIDUAL, PLEASE PROVIDE US WITH YOUR SOCIAL SECURITY NUMBER (SSN) IN THE SPACE INDICATED BELOW. IF YOU ARE A COMPANY OR A CORPORATION, PLEASE PROVIDE US WITH YOUR EMPLOYER IDENTIFICATION NUMBER (EIN) WHERE INDICATED.

Taxpayer Identification Number (T.I.N.)

Enter your taxpayer identification number in the appropriate box. For most individuals, this is your social security number.

Social Security No. (SSN)

Employer ID No. (EIN)

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--	--	--	--	--	--	--	--

NAME _____

ADDRESS _____

CITY, STATE AND ZIP CODE _____

PAYMENT REMITTANCE ADDRESS, IF DIFFERENT FROM THE ADDRESS ABOVE

ADDRESS _____

CITY, STATE AND ZIP CODE _____

CERTIFICATION: Under penalties of perjury, I certify that:

- (1) The number shown on this form is my correct Taxpayer Identification Number (or I am waiting for a number to be issued to me), and
- (2) I am not subject to backup withholding because either: (A) I am exempt from backup withholding, or (B) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (C) the IRS has notified me that I am no longer subject to backup withholding.
- (3) I am a U.S. citizen or other U.S. person (as defined by the IRS).

Certification Instructions – You must cross out item (2) above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item (2) does not apply.

Please sign here and provide title, date and telephone number:

SIGNATURE _____ TITLE _____ DATE _____ TEL NO _____
Original Signature Required (Digital Signature Not Acceptable)

BUSINESS DESIGNATION:

- Please Check One: Individual Corporation Trust/Estate Government/Nonprofit Corporation
Partnership Medical Services Corporation Legal Services Corporation
LLC Tax Classification: Single Member (Individual) Partnership Corporation

TIPS:

NAME: Be sure to enter your full and correct legal name as shown on your income tax return for the SSN or EIN provided.

ADDRESS, CITY, STATE AND ZIP CODE: If you operate a business at more than one location, adhere to the following:

- 1) Same EIN with more than one location – attach a list of location addresses with remittance address for each location and indicate to which location the year-end tax information return should be mailed.
- 2) Different EIN for each different location -- submit a completed W-9 form for each EIN and location. (One year-end tax information return will be reported for each EIN and remittance address.)

Mail Completed Form To:
Supplier Coordinator
Purchasing Department
One Capitol Hill, 2nd Floor
Providence RI 02908

Or Email To: doa.pursuppliercoordinator@purchasing.ri.gov

For State Use Only:

IRS ___ RI SOS ___ FED ___ Other _____

RI Supplier # _____ Approved _____

Date Entered _____ Entered By _____

August 6, 2014

Attention: Interested Suppliers of Snow/Ice Control Services

**Subject: Registration Materials for 2014-2015 Winter Season
Including Rate and Incentive Information**

Dear Madam or Sir:

The Rhode Island Department of Transportation is now seeking qualified and interested snow and ice professionals to assist with our statewide operations for the winter of 2014-2015. As we prepare for the upcoming season we want to bring your attention to several ongoing initiatives:

Closed Loop Spreader Control Systems

Starting in 2012, RIDOT began outfitting its own winter fleet with new spreader controls that incorporated GPS and wireless technologies. This program required a significant investment by the Department but has resulted in financial savings and reduced our overall impact on the environment. With salt (sodium chloride) representing the most expensive part of snow and ice operations, we have been able to reduce our potential expenses. This season we will have 100% of our fleet* outfitted with this equipment!

In the past two seasons RIDOT has offered a significant incentive for vendors who outfit their equipment* with these controllers and the incentive remains available this season. As we move our snow and ice operations forward this may become a requirement and other financing or rebate programs may be offered and we will continue to keep the vendor community updated to any further developments.

(* - GVW greater than 16,000 pounds and spreader greater than 3.0 cubic yards)

Salt Brine

Starting in 2013, RIDOT began using salt brine for anti-icing and pre-wetting applications. We currently have one brine production unit at our Midstate Facility in East Greenwich which can produce close to 5,000 gallons per hour with salt brine storage available at most of our storage facilities. In order to expand this initiative, which is a much improved method of anti-icing versus using solid materials, we will be working to expand our production abilities in the coming years and will continue to have a need for assistance with application and perhaps hauling between storage sites.

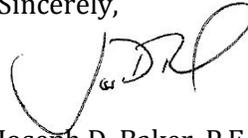
Snow & Ice Operations Training

In order to continue to provide the high level of service that Rhode Islanders have come to expect of our snow and ice operations we must all continue to train and educate ourselves about the industry standards and new technologies. A great source of information and recommended reading for all snow and ice professionals is the [*Snowfighters Handbook*](#).

The 2014-2015 registration package and application are available at all RIDOT Maintenance Facilities and Headquarters. You may also find the information and an electronic version of the application on the Department's website www.dot.ri.gov.

Should you have any questions regarding this registration process, please contact our Business Office at (401) 734-4832. We look forward to working with you toward the common goal of providing safe highway conditions for the Rhode Island motoring public.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. D. Baker', with a stylized flourish at the end.

Joseph D. Baker, P.E.
Administrator



State of Rhode Island and Providence Plantations

Department of Transportation
Division of Highway & Bridge Maintenance
360 Lincoln Avenue
Warwick, RI 02888-3030

SNOW PLOWING SERVICES NOTICE TO CONTRACTORS

The Rhode Island Department of Transportation is accepting applications from private contractors to assist with winter operations on State highways.

Rates vary based upon vehicle weight, equipment and accessories.

INCENTIVES

10% EARLY REGISTRATION by Friday, October 24, 2014

5% EARLY REGISTRATION by Friday, November 7, 2014

20% GREEN EQUIPMENT INCENTIVE for trucks* equipped with
AVL/GPRS Closed Loop Spreader Controls

*Please visit our website to obtain the *Winter Vendor Registration Package* including a complete list of equipment and accessory rates, incentive bonus instructions and forms to be used for the 2014-2015 winter season.

www.dot.ri.gov

For more information please call (401) 734-4832
Monday – Friday, 8:30 a.m. – 4:00 p.m.

The State of Rhode Island is an Equal Opportunity Employer

Pursuant to Title VI of the Civil Rights Act of 1964, 42 U.S.C. §§ 2000d - 2000d-4 and 49 C.F.R. Part 21, the RI Department of Transportation hereby notifies all applicants that it will affirmatively insure that Disadvantaged Business Enterprises will be afforded full opportunity to respond to this advertisement and will not be discriminated against on the grounds of race, color, sex, national origin, age, or disability in consideration for an award.

Winter Vendor Registration Materials
Owner/Vendor Agreement
(I-Form)
2014-2015 Version

Conditions Covering Compensation

1. Hired equipment shall be required to punch a timecard in and out of the facility reported to. Compensated time shall begin only when the hired equipment is on State time designated by the timecard. In instances where the vendor is advised by the Department to report directly to the stockpile, his/her equipment may be “punched-in” by the clerk at the hiring facility when contacted by the operator or foreman at the stockpile. No compensatory time is allowed for the attachment or detachment of plowing equipment, travel, standby, breakdown, or meals.
2. Hired equipment shall meet or exceed minimum safety standards. Safety lighting on all hired equipment shall conform to Department requirements. The Department reserves the right to refuse the use of a piece of hired equipment if, in the opinion of the supervisor, the equipment is not able to do the job required. To qualify for approval your vehicle(s) shall pass an inspection with all equipment attached. The vendor shall contact one of the Department’s Maintenance Facilities to schedule this inspection.
3. To ensure adequate response, all vehicles shall be equipped with a mobile telephone. The contact information for each vehicle shall be supplied on the E-Form provided.
4. All vendors and operators are required to follow RIDOT’s instructions pertaining to snow and ice operations and only plow and apply materials along designated roadways. Failure to comply with RIDOT’s instructions and conditions shall be documented and may result in suspension or termination of this Agreement.
5. It is strongly recommended that spreaders be equipped with automated synchronization (ground speed control) and adjustable controls in the cab of the truck.
6. All rates in this Agreement include the equipment, accessories, licensed qualified operators and operating costs, including but not limited to insurance, registration fees, maintenance, repairs and fuel. All equipment must arrive with fuel, in good working condition, and with all reimbursable accessories functioning properly.
7. In compliance with Title VI of the Civil Rights Act of 1964 and the Department’s Title VI/Nondiscrimination Program, no person shall, on the grounds of race, color, sex, national origin, age, or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination.
8. Acceptable closed loop spreader control systems shall be fully calibrated, ground speed oriented devices with AVL/GPRS, and provide the ability of reporting material application rates in pounds per lane mile in time increments of five minutes or less. RIDOT shall have full access to the reports whether via an internet connection or be provided with printable reports upon request. Calibrated application rates shall range from 50 – 500 pounds per lane mile, with the average rate of application of straight salt averaging between 200-250 pounds per lane mile.

9. Trucks equipped with accepted and operational closed loop spreader control systems will be placed on a “preferred call-in” list. These trucks will be amongst the first tier of equipment utilized by RIDOT as part of its winter operations.

The following forms shall be completed by the Owner and submitted to the Department

1. The E-Form, listing equipment and accessories that are available for hire by the State of Rhode Island, using the codes and rates found on the R-Form. The Owner shall sign the E-Form and have his/her signature notarized. The original E-Form shall be submitted to the Department for its use.
2. Enclose copies of valid registrations for vehicles and copies of bills of sale, titles or other proof of ownership for non-registered equipment.
3. Enclose a valid Certificate of Insurance from your insurance company designating:

RI Department of Transportation
Highway & Bridge Maintenance Division
360 Lincoln Avenue
Warwick, RI 02888

as the holder, and also as Additional Insured. The Certificate of Insurance shall clearly show itemized coverage of commercial insurance coverage for:

- a. General Liability of at least \$1,000,000.00 (One million dollars) for off-road equipment (e.g. loaders, excavators, backhoes)
 - b. Auto Liability of at least \$1,000,000.00 (One million dollars) for on-road equipment (e.g. pick-ups, 6-wheelers, 10-wheelers)
 - c. Worker’s Compensation
4. The Department shall be notified of any and all changes made involving vehicles and/or accessories and/or changes of address.
 5. Vendors who do not supply the necessary forms and information will not be eligible for service.

Reporting to Work and Payment Processing

1. When a vendor is called to start work, they will be offered a minimum of four (4) hours of work. Their driver shall “punch-in” within one (1) hour of the vendor’s receiving the call to report. Failure to report within one (1) hour of call-in will annul the four hour minimum guarantee.
2. When a vendor is notified to end work, RIDOT personnel will simultaneously “punch-out” the time card.
3. At the end of each event, all vendors and operators are required to return to their designated stockpile and return any unused material, if applicable. Applying excess material onto the roadway as a method of spinning off unused material is not allowed.
4. Timecards will be processed by the Department and its personnel will ensure payments are based upon the approved hourly rates and bonus percentages if applicable.
5. Invoices from the vendor will not be necessary.
6. In the event the vendor’s equipment or accessory breaks down during a storm, its hourly rate will be adjusted to reflect the working equipment and/or accessories.

Safety Requirements

1. Any vendor or operator who must exit their vehicle for an emergency repair, or for any other reason, within the State Highway Right of Way, is required to wear a reflectorized ANSI Class III safety vest while outside their vehicle/equipment.
2. All vehicles and equipment utilized through this Agreement shall be equipped with the following minimum safety equipment:
 - a. One six-inch amber flashing light, mounted on the highest practical point of each vehicle. The light must be visible for a distance of 300 feet, during daylight hours, from the front, rear and both sides of the vehicle. Vehicles that have a body or attachment that extends above the head of the cab must mount the lighting on a bracket or other device to extend the lighting above the body or attachment.
3. The owner is responsible to ensure that all vehicles conform to applicable USDOT and/or OSHA regulations pertaining to reverse signal alarms and lighting. For more information please refer to:
 - a. [29 CFR 1926.601-602](#)
 - b. [RIGL 31-24-31, Flashing Lights – Forward Viewing or Rotary Beam Lights](#)
 - c. [RIGL 31-24-46: Lights On Snow Removal Equipment](#)
 - d. The Federal Highway Administration has regulations that require employers with drivers of commercial vehicles to have an alcohol and drug-testing program in place. The specific provisions of the regulations are highly detailed and legally complex. RIDOT strongly urges each owner to review the regulations, which are cited as 49 CFR Part 382 (www.fmcsa.dot.gov/rulesregs/fmcsr/regs/382.htm).
4. In the event that a vendor or operator is involved in an incident (i.e. accident, collision, etc.), while working for RIDOT, the operator or a representative of the vendor shall notify the District Superintendent immediately (in a safe manner). **All incidents** shall be reported to the Rhode Island State Police (RISP) so that an Accident Report may be prepared. Following the incident, the operator shall provide RIDOT with a copy of the accident report. Failure to notify the RISP and RIDOT will result in suspension or termination of the Agreement.
5. Operators are reminded to wear their safety belt at all times and that texting while driving is prohibited. In addition, the use of a mobile phone should be limited as much as possible while operating.

License, Registration and Insurance Requirements

1. The owner is required to verify the license status of all vehicle or equipment operators and is prohibited from using unlicensed operators in the performance of this Agreement. The owner is further obligated to report the loss, revocation or suspension of any operator's license during the term of this agreement.
2. During the term of this agreement, each owner shall maintain a current vehicle registration for the specified equipment. Passenger vehicle registrations are not allowed on any vehicles listed. Out-of-state registrations are allowed, but they must meet all the requirements of the Rhode Island Division of Motor Vehicles and all other motor vehicle laws. The owner shall promptly forward a copy of any new or revised registration or insurance of listed equipment to the Maintenance District Superintendent.
3. The vendor shall be in compliance with the applicable provisions of the State Worker's Compensation Insurance. The owner agrees to accept all responsibility for liabilities incurred by the rented equipment during the term of operations to which it is assigned. The owner further agrees that the Rhode Island Department of Transportation, the Director, his agents, and

employees shall be held harmless from any and all claims and actions whatsoever that arise from his/her operations.

4. The owner is responsible to ensure that all equipment listed in this Agreement is legally insured as required by all Rhode Island laws and regulations. Owners shall be responsible for damage to private property, including but not limited to: landscaping, mailboxes, windshields, etc.

Incentives

Eligibility for compensation arrangements is as follows:

10% Early Sign-Up Incentive

Properly completed, original, notarized E-Form and all necessary documentation shall be submitted to and received by the RIDOT Division of Highway & Bridge Maintenance as described in the enclosed instruction **by 4:00PM on Friday, October 24, 2014.**

5% Early Sign-Up Incentive:

Properly completed, original, notarized E-Form and all necessary documentation shall be submitted to and received by the RIDOT Division of Highway & Bridge Maintenance as described in the enclosed instruction **by 4:00PM on Friday, November 7, 2014.**

20% Green Equipment Incentive

1. Properly installed and operational AVL/GPRS closed loop spreader control systems which allow for reporting of solid material (sand, salt and/or mix) in a printable format will be eligible. The equipment shall be acceptable to RIDOT in order to be eligible for this incentive. This bonus is only applicable to vehicles which exceed a GVW of 16,000 pounds and have a spreader larger than 3.0 cubic yards.
2. This bonus shall be added upon acceptance and approval by RIDOT and will be in effect for the remainder of the winter season.
3. RIDOT will maintain a preferred vendor call-in list for trucks which are equipped with an acceptable closed loop spreader control system.

The incentive for each inspected vehicle will remain in effect as long as the vehicle is **ready when called.** Vendors must reliably and consistently respond to calls for work from the Division of Highway & Bridge Maintenance in a timely manner throughout the winter season. If at any time the vehicle is not available, it will lose its incentive, and possibly subsequent work assignments, for the remainder of the winter season. Should there be extraordinary or extenuating circumstances, the vendor shall demonstrate this in correspondence directed to the Highway & Bridge Maintenance Division Administrator, whose management staff will determine whether to accept or reject such documentation. The decision of the Administrator will be final.

Inspections

1. All vehicles and related equipment/accessories shall be inspected prior to participating in the 2014-2015 winter season.
2. Each vehicle and related equipment/accessories shall pass an inspection by an authorized RIDOT designee at a local RIDOT Maintenance Facility. Vendors shall contact the facilities listed below in order to schedule an appointment. Inspections may be scheduled to take place Monday through Friday between the hours of 7:00AM – 2:00PM, with no inspections occurring on designated State holidays (Columbus Day, October 13; Election Day, November 4, Veterans’ Day, November 11; Thanksgiving Day, November 27; Christmas Day, December 25).
3. At the time of inspection, the owner shall provide the RIDOT representative with an approved Certificate of Spreader Calibration/Calibration Chart. This form shall be completed PRIOR to the RIDOT inspection.
4. Upon successful inspection, the RIDOT representative will approve the RIDOT Equipment Inspection Form and return it to the owner. This form shall then be included with the rest of the application package.

<u>Facility</u>	<u>Address</u>	<u>Telephone Number</u>
Belleville	439 Tower Hill Road, North Kingstown	(401) 294-9613
East Providence	691 Warren Avenue, East Providence	(401) 431-5401
Glocester	648 Putnam Pike, Glocester	(401) 568-5373
Hope Valley	51 Bank Street, Hope Valley	(401) 539-2991
Midstate	2400 New London Avenue, East Greenwich	(401) 826-0573
Smithfield	395 George Washington Hwy., Smithfield	(401) 231-4502
Portsmouth	171 Anthony Road, Portsmouth	(401) 683-1070

Winter 2014-2015 (FY2015)

Hourly Rates for Hired Equipment Used for Snow and Ice Control

Code	Equipment	Gross Weight Per Vehicle Registration	FY2015 Rates	
			Hourly Base Rate	With Approved Green Equipment Incentive
10000	Truck	5,500 - 8,500 GVW ¹	\$46.55	-
20000	Truck	8,501 - 10,999 GVW	\$51.45	-
30000	Truck	11,000 - 16,000 GVW	\$55.13	-
40000	Truck	16,001 - 27,000 GVW	\$61.25	\$73.50
50000	Truck	27,001 - 36,000 GVW	\$72.28	\$86.73
60000	Truck	36,001 - 45,000 GVW	\$75.95	\$91.14
70000	Truck	45,001 - 59,000 GVW	\$82.08	\$98.49
80000	Truck	59,001 GVW or Greater	\$86.98	\$104.37
90000	Front End Loader	2.5 CY - 3.9 CY	\$112.70	-
100000	Front End Loader	4.0 CY - 5.9 CY	\$126.18	-
110000	Front End Loader	6.0 Cubic Yards or Greater	\$140.88	-
200000	10 Wheel Dump	10 Wheel Dump - Hauling	\$79.63	-
210000	Tri-Axle Dump	Tri-Axle Dump - Hauling	\$85.75	-
220000	Trailer Dump	Trailer Dump - Hauling	\$91.88	-
230000	Excavator, Hydraulic	Bucket Capacity 1.0 - 2.5 CY	\$79.63	-

Add the following amounts to equipment rates for these accessories:

Code	Accessory	FY2015 Rates	
		Add On	With Approved Green Equipment Incentive
01	All Wheel Drive (Only for Codes 10000 - 80000)	\$8.58	-
10	Ground Speed Oriented Controls ²	\$9.80	-

Plows

100	Less than 9.0 Feet	\$4.90	-
200	9.0 Feet - 9.9 Feet	\$6.13	-
300	10.0 Feet - 10.9 Feet	\$8.58	-
400	11.0 Feet or Greater	\$11.03	-
500	Power Reversible Plow	\$2.45	-
600	Single Wing Plow	\$24.50	-
700	Double Wing Plow Combination	\$42.88	-

Material Spreaders/Liquid Chemical Trucks ³

1000	Less Than 3.0 Cubic Yards	\$8.58	-
2000	3.0 CY - 5.9 CY	\$14.70	\$17.64
3000	6.0 CY - 9.9 CY	\$20.83	\$24.99
4000	10.0 CY - 13.9 CY	\$24.50	\$29.40
5000	14.0 CY or Greater	\$28.18	\$33.81
6000	6.0 CY - 9.9 CY WITH 150 Gallon Saddle Tanks	\$30.63	-
7000	10.0 CY - 13.9 CY WITH 150 Gallon Saddle Tanks	\$42.88	-
8000	500 - 999 Gallon Liquid Tanker*	\$22.05	-
9000	1000 Gallon or Greater Liquid Tanker*	\$34.30	-

Notes:

¹ - This size vehicle (Code 10000) must have All-Wheel Drive.

² - You must annually provide an original certificate of calibration showing that this spreader has been calibrated for the truck on which it will be used. The Department will perform periodic inspections for proper application rate. Payment will not include this code unless the spreader is calibrated.

³ - Manufacturer's water level capacity of body without side boards. Body type spreaders shall be capable of applying various materials at various spreading rates.

* - Tanker trucks shall be equipped to properly haul and apply salt brine at RIDOT specified application rates based on gallons per lane mile. Trucks shall be equipped with ground speed oriented controls.

Vendor Registration Application

1. Owner Information *(For Vendor Registration and Payments)*

Name:	RI Snow Removal		
Address:	123 Main Street		
City/Town:	Anytown, RI	Zip Code:	12345
If vehicle(s) is/are owned by an individual, you must supply the owner's Social Security Number (SSN):			
SSN:			
If vehicle(s) is/are owned by a company, you must provide the Employer Identification Number (EIN):			
EIN:	20-1234567		

2. Contact Information *(For Application Questions and Storm Assignments)*

24-Hour Emergency Telephone Number:	Bob - (401) 641-5555
Direct Connect Number:	Bob - 180*85*124
Other Contact Information:	Bob (Home) (401) 734-5555
Email Address	Bob@plowoperator.com

3. Vehicle Information *(For Registration and Billing Use)*

Class Code	Make	Year	Registration	Accessory Codes		Base Hourly Rate
40000	Mack	2005	91234	400	6000	\$ 102.90
10000	Ford	2008	9876	10	200	\$ 62.48
<div style="border: 1px solid black; padding: 10px; background-color: #cccccc; text-align: center;"> <p>EXAMPLE SHEET DO NOT FILL OUT</p> <p>SEE FOLLOWING SHEET (E-FORM) FOR APPLICATION</p> </div>						

In signing this application, I certify that I have read, understand and agree to comply with any and all directives

Owner's Signature:		Date:	9/10/2012
---------------------------	--	--------------	-----------

Notary Public:		Date:	9/10/2012
-----------------------	--	--------------	-----------

Notary Public acknowledges the Owner's personal signature

Vendor Registration Application

1. Owner Information *(For Vendor Registration and Payments)*

Name:

Address:

City/Town: Zip Code:

If vehicle(s) is/are owned by an individual, you must supply the owner's Social Security Number (SSN):
 SSN:

If vehicle(s) is/are owned by a company, you must provide the Employer Identification Number (EIN):
 EIN:

2. Contact Information *(For Application Questions and Storm Assignments)*

24-Hour Emergency Telephone Number:

Direct Connect Number:

Other Contact Information:

Email Address:

3. Vehicle Information *(For Registration and Billing Use)*

Class Code	Make	Year	Registration	Accessory Codes	Base Hourly Rate

In signing this application, I certify that I have read, understand and agree to comply with any and all directives

Owner's Signature: **Date:**

Notary Public: **Date:**

Notary Public acknowledges the Owner's personal signature

CALIBRATION CHART (US)

Agency: _____
 Location: _____
 Truck No: _____ Spreader No: _____
 Date: _____ By: _____

Gate Opening _____ (inches) (Hopper Type Spreaders)				DISCHARGE RATE (pounds discharged per mile)								
Control Setting	A Shaft RPM (Loaded)	B Discharge per Revolution (pounds)	C Discharge per Minute (lb) (A x B)	TRAVEL SPEED AND COMPUTATION MULTIPLIER ()								
				5 mph (x 12.00)	10 mph (x 6.00)	15 mph (x 4.00)	20 mph (x 3.00)	25 mph (x 2.40)	30 mph (x 2.00)	35 mph (x 1.71)	40 mph (x 1.50)	45 mph (x 1.33)
1			-	-	-	-	-	-	-	-	-	-
2			-	-	-	-	-	-	-	-	-	-
3			-	-	-	-	-	-	-	-	-	-
4			-	-	-	-	-	-	-	-	-	-
5			-	-	-	-	-	-	-	-	-	-
6			-	-	-	-	-	-	-	-	-	-
7			-	-	-	-	-	-	-	-	-	-
8			-	-	-	-	-	-	-	-	-	-
9			-	-	-	-	-	-	-	-	-	-
10			-	-	-	-	-	-	-	-	-	-
11			-	-	-	-	-	-	-	-	-	-

THE ACTUAL APPLICATION RATE (POUNDS PER LANE MILE) ON THE HIGHWAY IS THE DISCHARGE RATE DIVIDED BY THE NUMBER OF LANES BEING TREATED

SPREADER CALIBRATION PROCEDURE

Calibration is simply calculating the pounds per mile discharged for each control setting at various travel speeds by first counting the number of auger or conveyor shaft revolutions per minute, measuring the weight of salt discharged in one revolution, then multiply the two to obtain discharge per minute, and finally multiplying the discharge per minute by the time it takes to travel 1 mile. Most spreaders have multiple gate openings; so you must calibrate for specific gate openings.

Equipment needed:

1. Scale to weigh salt
2. Salt collection device
3. Marking device
4. Watch with second hand

Calibration steps:

1. Remove, by-pass or turn off spinner.
2. Warm truck's hydraulic oil to normal operating temperature with spreader system running.
3. Put partial load of salt on truck.
4. Mark shaft end of auger or conveyor.
5. Dump salt on auger.
6. Rev truck engine to operating RPM.
7. Count number of shaft revolutions per minute at each spreader control setting, record.
8. Collect salt discharged for one revolution, weigh it and deduct the weight of the container. (For greater accuracy, collect salt for several revolutions and divide by that number of revolutions to get the weight for one revolution.)
9. Multiply Column A by Column B to get Column C; then multiply Column C by the number of minutes to travel one mile () at various truck speeds to get pounds Discharged per mile.*

#####

CALIBRATION OF AUTOMATIC CONTROLS

Automatic controls may be calibrated using the following steps:

1. Remove, by-pass or turn of spinner.
2. Set control on given number.
3. Tie sack or heavy canvas under spreader discharge area.
4. Mark specific distance on a highway or other paved area, such as 1000 ft. .
5. Drive that distance with spreader operating.
6. Weigh salt collected.
7. Multiply weight of salt by 5.28 (in case of 1000 ft.).

Answer will be salt discharged per mile which remains constant regardless of speed, but calibration must be done for each control setting. Some automatic control manufacturers have "simulators" which eliminate need for on-road operation for calibration.

PAYER'S REQUEST FOR TAXPAYER IDENTIFICATION NUMBER AND CERTIFICATION

THE IRS REQUIRES THAT YOU FURNISH YOUR TAXPAYER IDENTIFICATION NUMBER TO US. FAILURE TO PROVIDE THIS INFORMATION CAN RESULT IN A \$50 PENALTY BY THE IRS. IF YOU ARE AN INDIVIDUAL, PLEASE PROVIDE US WITH YOUR SOCIAL SECURITY NUMBER (SSN) IN THE SPACE INDICATED BELOW. IF YOU ARE A COMPANY OR A CORPORATION, PLEASE PROVIDE US WITH YOUR EMPLOYER IDENTIFICATION NUMBER (EIN) WHERE INDICATED.

Taxpayer Identification Number (T.I.N.)

Enter your taxpayer identification number in the appropriate box. For most individuals, this is your social security number.

Social Security No. (SSN)

--	--	--

Employer ID No. (EIN)

--	--

NAME

ADDRESS

(REMITTANCE ADDRESS, IF DIFFERENT) _____

CITY, STATE AND ZIP CODE _____

CERTIFICATION: Under penalties of perjury, I certify that:

- (1) The number shown on this form is my correct Taxpayer Identification Number (or I am waiting for a number to be issued to me), **and**
- (2) I am not subject to backup withholding because either: (A) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (B) the IRS has notified me that I am no longer subject to backup withholding.

Certification Instructions -- You must cross out item (2) above if you have been notified by the IRS that you are subject to backup withholding because of under-reporting interest or dividends on your tax return. However, if after being notified by IRS that you were subject to backup withholding you received another notification from IRS that you are no longer subject to backup withholding, do not cross out item (2).

PLEASE SIGN HERE

SIGNATURE _____ TITLE _____ DATE _____ TEL NO. _____

BUSINESS DESIGNATION:

Please Check One: Individual Medical Services Corporation Government/Nonprofit Corporation
 Partnership Corporation Trust/Estate Legal Services Corporation

NAME: Be sure to enter your full and correct name as listed in the IRS file for you or your business.

ADDRESS, CITY, STATE AND ZIP CODE: Enter your primary business address and remittance address if different from your primary address). If you operate a business at more than one location, adhere to the following:

- 1) Same T.I.N. with more than one location -- attach a list of location addresses with remittance address for each location and indicate to which location the year-end tax information return should be mailed.
- 2) Different T.I.N. for each different location -- submit a completed W-9 form for each T.I.N. and location. (One year-end tax information return will be reported for each T.I.N. and remittance address.)

CERTIFICATION -- Sign the certification, enter your title, date, and your telephone number (including area code and extension).

BUSINESS TYPE CHECK-OFF -- Check the appropriate box for the type of business ownership.

Mail to: Supplier Coordinator, One Capitol Hill, Providence, RI 02908



State of Rhode Island and Providence Plantations

Department of Transportation
 Division of Highway & Bridge Maintenance
 360 Lincoln Avenue
 Warwick, RI 02888-3030

RIDOT Equipment Inspection Form

To be completed by owner:

Name:	Phone No.:
Address:	City/Town:

To be completed by authorized RIDOT representative:

Class Code	Accessory Code(s)			Make	Year	Registration No.	Valid Registration	Valid Insurance	Valid Inspection Sticker	Certificate of Spreader Cal	Cell Phone No.

I hereby certify that I, or my designee, have interviewed the Owner/Contractor stated above, and inspected the equipment described on the attached *Vendor Registration Application* page(s). Therefore, to the best of my knowledge, all required submittals and conditions of this agreement have been met and I recommend approval for assignment as determined by the Rhode Island Department of Transportation.

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Owner's Signature District Maintenance Superintendent Chief Highway Maintenance
 Date: Date: Date:

Original to Business Office Copy to Facility Copy to Vendor

RIDOT Stormwater Treatment Units
 ATTACHMENT 6D - RIDOT STU Inventory
 (to be updated 2016)

OBJECTID *	Shape *	UNITYTYPE	DESCRT	LOCAT	CITYTOWN	CNSLTNT	CONTRNO	INSTDATE	OWNER	RetroFt	PLANS	MaintReq
30	Point	Aqua Shield Filtration system	Stormwater Management Improvements to I-95, Outfall P68A	South of Wellington Ave. at I-95 and Pawtuxet River	Cranston	Crossman Engineering	2003-CH-024	5/24/2004	RIDOT	-1	-1	<Null>
32	Point	Aqua Shield Swirl Chamber 1	Stormwater Management Improvements to I-95, Outfall P61	South of I-95 at Jefferson Blvd. and at west end of Maple St.	Warwick	Crossman Engineering	2003-CH-024	5/24/2004	RIDOT	-1	-1	<Null>
43	Point	Basin w/Oil/Water Separator	Newport Marine Facilities STA. 12+33 (Fort Adams)	Newport	Newport	Louis Berger	9905	8/22/2001	RIDOT	0	-1	<Null>
44	Point	Basin w/Oil/Water Separator	Newport Marine Facilities STA. 14+35 (Fort Adams)	<Null>	Newport	Louis Berger	9905	8/22/2001	RIDOT	0	-1	<Null>
45	Point	Basin w/Oil/Water Separator	Newport Marine Facilities STA. 16+15 (Fort Adams)	<Null>	Newport	Louis Berger	9905	8/22/2001	RIDOT	0	-1	<Null>
46	Point	Basin w/Oil/Water Separator	Newport Marine Facilities STA. 21+48 (Fort Adams)	<Null>	Newport	Louis Berger	9905	8/22/2001	RIDOT	0	-1	<Null>
13	Point	Downstream Defender-6 ft. Diameter	Statewide Drainage Improvements Central Avenue	Central Ave., East of Rte. 295, Station 0+67 LT.	Johnston	RIDOT	2002-CH-010	1/5/2004	RIDOT	0	0	<Null>
14	Point	Downstream Defender-6 ft. Diameter	Statewide Drainage Improvements Sanderson Road	Smithfield (RT 5 and Commerce way)	Smithfield	RIDOT	2002-CH-010	1/5/2004	RIDOT	0	-1	<Null>
15	Point	Downstream Defender-8 ft. Diameter	Statewide Drainage Improvements Sanderson Road	<Null>	Smithfield	RIDOT	2002-CH-010	1/5/2004	RIDOT	0	-1	<Null>
73	Point	Grass Swale - P113	Stormdrain Retrofit Demo Project - RIDOT Sites P38-2, P41, P71, P113	I-295 median Sta. 124+00 - 138+00	Cranston	Crossman Engineering	2005-CH-033	7/17/2006	RIDOT	-1	0	<Null>
112	Point	Micro Pool/ Marsh/ Sediment Forebay	Improvements to I-195 - Contract 2 Stormdrain Retrofit Demo Project I-195 at Gano St./I-95 at Poe Street	<Null>	Providence	Maguire	9834	1/4/2000	RIDOT	-1	-1	<Null>
39	Point	Oil/Water Separator	3R Highway Improvements to Main Street	Main Street Sta. 33+18, 232' rt. at south end of Mews Tavern parking lot	South Kingstown	Pare	9614	8/27/1998	RIDOT	0	-1	<Null>
113	Point	Oil/Water Separator	I-195 Contract 5; PG & E Access Road STA 14 + 43	<Null>	Providence	Maguire	2002-CH-055	6/21/2005	RIDOT	0	-1	<Null>
49	Point	Stormceptor 1200	3R Improvements to Southwest Ave./Beaver Tail Road/ STA.	<Null>	Jamestown	Pare	9735	6/21/2000	RIDOT	-1	-1	<Null>
47	Point	Stormceptor 2400	3R Improvements to Southwest Ave./Beaver Tail Road/ Rt. STA. 41+40	Jamestown (Beavertail RD and Hamelton Ave)	Jamestown	Pare	9735	6/21/2000	RIDOT	-1	-1	<Null>
51	Point	Stormceptor 2400	3R Improvements to Southwest Ave./Beaver Tail Road/ Rt. STA. 20+00	<Null>	Jamestown	Pare	9735	6/21/2000	RIDOT	-1	-1	<Null>
50	Point	Stormceptor 3600	3R Improvements to Southwest Ave./Beaver Tail Road STA	<Null>	Jamestown	Pare	9735	6/21/2000	RIDOT	-1	-1	<Null>
48	Point	Stormceptor 900	3R Improvements to Southwest Ave./Beaver Tail Road/ STA.	<Null>	Jamestown	Pare	9735	6/21/2000	RIDOT	-1	-1	<Null>
33	Point	Stormwater Ceptor 450i	1R Highway Improvements Route 3-Arizona Street to West Warwick Town Line	South side of Tiogue Ave. (Route 3), Sta. 67+25 Lt.	Coventry	Gordon Archibald	2002-CH-013	11/6/2002	RIDOT	0	-1	<Null>
34	Point	Stormwater Ceptor 450i	1R Highway Improvements Route 3-Arizona Street to West Warwick Town Line	South side of Tiogue Ave. (Route 3), Sta. 70+50 Lt.	Coventry	Gordon Archibald	2002-CH-013	11/6/2002	RIDOT	0	-1	<Null>
38	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 17 on east side of Walcott Ave.	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
89	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 8 on east side of Middle Road	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
90	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 7A south of Mil-Kay Way	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
91	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 4 on west side of Defelice Road	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
92	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 3 on east side of Defelice Road	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
93	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 2 on west side of Ocean Road	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
94	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch Basin 1 on east side of Ocean Road	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
95	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 9 on west side of Middle Road	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
96	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 16 on north side of Walcott Ave.	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
97	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 10 on west side of Mil-Kay Way	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
98	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 11 on west side of Ocean Rd	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
99	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 12 on north side of Walcott Ave.	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
100	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 14 on north side of Walcott Ave.	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
101	Point	Ultra Urban Filter	Stormwater Enhancements at Scarborough Beach	Catch basin 15 on north side of Walcott Ave.	Narragansett	Crossman Engineering	2004-CH-069	9/30/2004	RIDOT	0	-1	<Null>
84	Point	Vort 16000 Water Quality Structure 1	Improvements to I-195, Contract 6, Ramp NE, Ramp WS, Ramp WES	<Null>	Providence	Maguire/ Crossman	2004-CH-050	<Null>	RIDOT	0	-1	<Null>
55	Point	Vort 3000 Stormwater Treatment System	Charles Street/May Street May Street/ STA. 3+63A	May Street, within fenced area on northerly side of street	North Providence	Bryant PARE	2004-CH-075	11/28/2005	RIDOT	0	-1	<Null>
35	Point	Vortech 1421C	Reconstruction of East Main Road/Arterial Improvements East Main Road, STA. 116+00	<Null>	Middletown	VHB	2004-CH-006	10/25/2006	RIDOT	0	-1	<Null>
85	Point	Vortech 16000	Improvements to I-195, Contract 6, Ramp NE, Ramp WS, Ramp WES	Water Quality Structure 2	Providence	Maguire/ Crossman	2004-CH-050	<Null>	RIDOT	0	-1	<Null>
53	Point	Vortech No. 1	Highway Runoff Mitigation Enhancements/ Rt 102	Rte. 102, in grass off southerly shoulder	Exeter	Louis Berger	2004-CH-023	1/20/2005	RIDOT	0	-1	<Null>
36	Point	Vortech Model 9000	Stormwater Management Improvements to Stafford Road	Old Stafford Road, Sta. 13+00 Rt. near houses #1024-1031	Tiverton	Crossman Engineering	2000-CH-065	5/8/2001	RIDOT	-1	-1	<Null>

RIDOT Stormwater Treatment Units
 ATTACHMENT 6D - RIDOT STU Inventory
 (to be updated 2016)

OBJECTID *	Shape *	UNITTYPE	CleanReq	InspReq	Latitude	Longitude	STU_ID	STU_TYPE	AssetID	InstallYr	Condition	ConditionIndex	Outfall_ID
30	Point	Aqua Shield Filtration system	<Null>	<Null>	41.760956	-71.431436	STU_SC_046	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
32	Point	Aqua Shield Swirl Chamber 1	<Null>	<Null>	41.751709	-71.439305	STU_SC_045	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
43	Point	Basin w/Oil/Water Separator	<Null>	<Null>	41.478519	-71.335354	STU_OS_090	Oil Separator	<Null>	<Null>	<Null>	<Null>	<Null>
44	Point	Basin w/Oil/Water Separator	<Null>	<Null>	41.4779	-71.335315	STU_OS_091	Oil Separator	<Null>	<Null>	<Null>	<Null>	<Null>
45	Point	Basin w/Oil/Water Separator	<Null>	<Null>	41.477453	-71.335266	STU_OS_092	Oil Separator	<Null>	<Null>	<Null>	<Null>	<Null>
46	Point	Basin w/Oil/Water Separator	<Null>	<Null>	41.476891	-71.33522	STU_OS_093	Oil Separator	<Null>	<Null>	<Null>	<Null>	<Null>
13	Point	Downstream Defender-6 ft. Diameter	<Null>	<Null>	41.867432	-71.53125	STU_SC_010	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
14	Point	Downstream Defender-6 ft. Diameter	<Null>	<Null>	41.865507	-71.531278	STU_SC_011	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
15	Point	Downstream Defender-8 ft. Diameter	<Null>	<Null>	41.811327	-71.508728	STU_SC_012	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
73	Point	Grass Swale - P113	<Null>	<Null>	41.730956	-71.486379	STU_SW_103	Swale	<Null>	<Null>	<Null>	<Null>	<Null>
112	Point	Micro Pool/ Marsh/ Sediment Forebay	<Null>	<Null>	41.819647	-71.38912	STU_WB_087	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
39	Point	Oil/Water Separator	<Null>	<Null>	41.43568	-71.50211	STU_OS_075	Oil Separator	<Null>	<Null>	<Null>	<Null>	<Null>
113	Point	Oil/Water Separator	<Null>	<Null>	41.813952	-71.402987	STU_OS_025	Oil Separator	<Null>	<Null>	<Null>	<Null>	<Null>
49	Point	Stormceptor 1200	<Null>	<Null>	41.492613	-71.378241	STU_SC_077	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
47	Point	Stormceptor 2400	<Null>	<Null>	41.488808	-71.380852	STU_SC_078	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
51	Point	Stormceptor 2400	<Null>	<Null>	41.48665	-71.386566	STU_SC_079	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
50	Point	Stormceptor 3600	<Null>	<Null>	41.494581	-71.375853	STU_SC_080	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
48	Point	Stormceptor 900	<Null>	<Null>	41.490563	-71.379047	STU_SC_076	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
33	Point	Stormwater Ceptor 450i	<Null>	<Null>	41.685224	-71.548566	STU_SC_016	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
34	Point	Stormwater Ceptor 450i	<Null>	<Null>	41.684846	-71.547432	STU_SC_017	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
38	Point	Ultra Urban Filter	<Null>	<Null>	41.395525	-71.467294	STU_OT_071	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
89	Point	Ultra Urban Filter	<Null>	<Null>	41.393533	-71.473215	STU_OT_063	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
90	Point	Ultra Urban Filter	<Null>	<Null>	41.393413	-71.47282	STU_OT_062	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
91	Point	Ultra Urban Filter	<Null>	<Null>	41.393115	-71.47195	STU_OT_061	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
92	Point	Ultra Urban Filter	<Null>	<Null>	41.39296	-71.471523	STU_OT_060	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
93	Point	Ultra Urban Filter	<Null>	<Null>	41.392662	-71.470684	STU_OT_059	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
94	Point	Ultra Urban Filter	<Null>	<Null>	41.392543	-71.470226	STU_OT_058	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
95	Point	Ultra Urban Filter	<Null>	<Null>	41.394224	-71.471965	STU_OT_064	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
96	Point	Ultra Urban Filter	<Null>	<Null>	41.395293	-71.472972	STU_OT_070	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
97	Point	Ultra Urban Filter	<Null>	<Null>	41.395048	-71.472323	STU_OT_065	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
98	Point	Ultra Urban Filter	<Null>	<Null>	41.395005	-71.472214	STU_OT_066	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
99	Point	Ultra Urban Filter	<Null>	<Null>	41.394984	-71.472119	STU_OT_067	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
100	Point	Ultra Urban Filter	<Null>	<Null>	41.394272	-71.470036	STU_OT_068	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
101	Point	Ultra Urban Filter	<Null>	<Null>	41.394054	-71.4695	STU_OT_069	OTHER	<Null>	<Null>	<Null>	<Null>	<Null>
84	Point	Vort 16000 Water Quality Structure 1	<Null>	<Null>	41.810429	-71.405787	STU_SC_056	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
55	Point	Vort 3000 Stormwater Treatment System	<Null>	<Null>	41.865777	-71.425296	STU_SC_072	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
35	Point	Vortech 1421C	<Null>	<Null>	41.518197	-71.295174	STU_SC_052	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
85	Point	Vortech 16000	<Null>	<Null>	41.807573	-71.40415	STU_SC_057	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
53	Point	Vortech No. 1	<Null>	<Null>	41.578338	-71.541989	STU_SC_055	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
36	Point	Vortech Model 9000	<Null>	<Null>	41.634361	-71.148332	STU_SC_002	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>

RIDOT Stormwater Treatment Units
ATTACHMENT 6D - RIDOT STU Inventory
(to be updated 2016)

OBJECTID *	Shape *	UNITTYPE	DESCRT	LOCAT	CITYTOWN	CNSLTNT	CONTRNO	INSTDATE	OWNER	RetroFt	PLANS	MaintReq
37	Point	Vortechncs Model 9000	Stormwater Management Improvements to Stafford Road	Stafford Road (Route 81), Sta. 126+00 Rt. Near house #1115	Tiverton	Crossman Engineering	2000-CH-065	5/8/2001	RIDOT	-1	-1	<Null>
7	Point	Vortechs 11,000	Improved Ramp Access from I-95 - Contract 6 Providence Route 6/10 Ramps D-DE, AD, BD & Temp. Ramps AD & BD Ramp BD	Providence (I95 NB to RT. 6 WB Ramp)	Providence	VHB	9930	9/27/2000	RIDOT	0	-1	<Null>
10	Point	Vortechs 11,000	Improvements to I-195 - Contract 2 Stormdrain Retrofit Demo Project I-195 at Gano St./I-95 Thurbers Avenue	<Null>	Providence	Maguire	9834	1/4/2000	RIDOT	-1	-1	<Null>
22	Point	Vortechs 11,000	Freeway Construction Interchange Route 295 & Scituate Avenue Ramp A	<Null>	Johnston	Crossman Engineering	2002-CH-049	5/25/2004	RIDOT	0	-1	<Null>
59	Point	Vortechs 11,000	Reconstruction of Route 116/Route 146 Route 116, STA. 386+35	<Null>	Lincoln	Maguire	2003-CH-009	<Null>	RIDOT	0	-1	<Null>
27	Point	Vortechs 11000	Improvements to Cowesett Road	Cowesett Road Sta. 117+50 Lt.	Warwick	Crossman Engineering	9801	5/25/1999	RIDOT (Warwick?)	0	-1	<Null>
23	Point	Vortechs 16,000	Freeway Construction Interchange Route 295 & Scituate Avenue Ramp D	<Null>	Johnston	Crossman Engineering	2002-CH-049	5/25/2004	RIDOT	0	-1	<Null>
54	Point	Vortechs 16,000	Replacement of Middle Highway Culvert & East Providence Stormwater Improvements Highland Avenue/ Rt 6	<Null>	East Providence	Crossman Engineering	2003-CH-044	7/26/2005	RIDOT	-1	-1	<Null>
80	Point	Vortechs 16,000	Improvements to Route I-295 Providence River Bridge & East Approach-Contract 7 Providence River to Brook Street, S. water st. and India st. India Street, STA.91+13	<Null>	Providence	Maguire/VHB/Pare	2003-CB-011	<Null>	RIDOT	0	-1	<Null>
81	Point	Vortechs 16,000	Improvements to Route I-295 Providence River Bridge & East Approach-Contract 7 Providence River to Brook Street, India, 195WB India Street, STA.85+89	<Null>	Providence	Maguire/VHB/Pare	2003-CB-011	<Null>	RIDOT	0	-1	<Null>
31	Point	Vortechs 16000	Stormwater Management Improvements to I-95, Outfall	West side of Doric Avenue	Cranston	Crossman Engineering	2003-CH-024	5/24/2004	RIDOT	-1	-1	<Null>
9	Point	Vortechs 2000	Improved Ramp Access from I-95 Ramp RV-AD, STA. 305+60	<Null>	Providence	VHB	9929	5/1/2001	RIDOT	0	-1	<Null>
17	Point	Vortechs 2000	Reconstruction of Breakneck Hill Road, Route 246 to Great Road	Breakneck Hill Road, opposite West Butterfly Way	Lincoln	Bryant Associates	2001-CH-050	8/20/2003	RIDOT	0	-1	<Null>
24	Point	Vortechs 2000	Reconstruction of Bald Hill Road, East Avenue to I-95	Bald Hill Road Sta. 134+70 Lt. at S entrance to Summit Square stores	Warwick	Garofalo & Assoc.	2000-CH-003	9/26/2002	RIDOT	0	-1	<Null>
87	Point	Vortechs 2000	Improvements to Route I-195 Providence River Bridge & East Approach, Contract 7 - Providence River to Brook Street India Street, STA 99+30	<Null>	Providence	Maguire/VHB/Pare	2003-CB-011	<Null>	RIDOT	0	-1	<Null>
3	Point	Vortechs 3000	Safety Improvements to U.S. Route 6 & RI Route 94	East side of Route 94, Sta. 12+28 Rt. in front of school	Foster	Bryant Associates	2002-CH-064	7/23/2003	RIDOT	0	-1	<Null>
4	Point	Vortechs 3000	Reconstruction of Route 116/Route 146 Route 116, STA. 382+80	<Null>	Lincoln	Maguire	2003-CH-009	<Null>	RIDOT	0	-1	<Null>
8	Point	Vortechs 3000	Improvement Ramp Access from I-95 Ramp D-DE & Dean Street Widening, Contract 5 Dean Street, STA. 22+64 Dean and Kinsley	Providence (Dean and Kinsley Ave)	Providence	VHB	9871	9/27/2000	RIDOT	0	-1	<Null>
56	Point	Vortechs 3000	Reconstruction of Route 116/Route 146 Route 116, STA. 394+24	<Null>	Lincoln	Maguire	2003-CH-009	<Null>	RIDOT	0	-1	<Null>
58	Point	Vortechs 3000	Reconstruction of Route 116/Route 146 Route 116, STA. 296+63	<Null>	Lincoln	Maguire	2003-CH-009	<Null>	RIDOT	0	-1	<Null>
82	Point	Vortechs 3000	Replacement of Barrington Bridge #123 Mathewson Road, STA. 0+57	<Null>	Barrington	Siegmund and Assoc.	2003-CB-045	<Null>	RIDOT	0	-1	<Null>
86	Point	Vortechs 3000	Replacement of Warren Ave. Bridge #124	<Null>	Warren	<Null>	2005-CB-057	<Null>	RIDOT	0	0	<Null>
1	Point	Vortechs 4000	Safety Improvements to U.S. Route 6 & RI Route 94	Route 6, STA. 747+98 RT	Foster	Bryant Associates	2002-CH-064	7/23/2003	RIDOT	0	-1	<Null>
2	Point	Vortechs 4000	Safety Improvements to U.S. Route 6 & RI Route 94	West side of Route 94, Sta. 12+70 Lt. across from school	Foster	Bryant Associates	2002-CH-064	7/23/2003	RIDOT	0	-1	<Null>
6	Point	Vortechs 4000	Improvements to Ramp Access from I-95 Memorial Blvd. & Francis St. - Contract 2 Ramp DA, STA. 289-87	<Null>	Providence	VHB	9909	9/27/2000	RIDOT	0	-1	<Null>
12	Point	Vortechs 4000	Improvements to I-195 - Contract 2 Stormdrain Retrofit Demo Project I-195 at Gano St./I-95 at Poe St	<Null>	Providence	Maguire	9834	1/4/2000	RIDOT	-1	-1	<Null>

RIDOT Stormwater Treatment Units
 ATTACHMENT 6D - RIDOT STU Inventory
 (to be updated 2016)

OBJECTID *	Shape *	UNITTYPE	CleanReq	InspReq	Latitude	Longitude	STU_ID	STU_TYPE	AssetID	InstallYr	Condition	ConditionIndex	Outfall_ID
37	Point	Vortechics Model 9000	<Null>	<Null>	41.632121	-71.146789	STU_SC_003	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
7	Point	Vortechs 11,000	<Null>	<Null>	41.826689	-71.419646	STU_SC_097	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
10	Point	Vortechs 11,000	<Null>	<Null>	41.801059	-71.401821	STU_SC_088	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
22	Point	Vortechs 11,000	<Null>	<Null>	41.801956	-71.509905	STU_SC_023	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
59	Point	Vortechs 11,000	<Null>	<Null>	41.93444	-71.46422	STU_SC_042	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
27	Point	Vortechs 11000	<Null>	<Null>	41.685469	-71.461625	STU_SC_083	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
23	Point	Vortechs 16,000	<Null>	<Null>	41.807436	-71.509495	STU_SC_024	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
54	Point	Vortechs 16,000	<Null>	<Null>	41.80477	-71.339929	STU_SC_048	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
80	Point	Vortechs 16,000	<Null>	<Null>	41.815912	-71.400437	STU_SC_032	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
81	Point	Vortechs 16,000	<Null>	<Null>	41.816318	-71.40058	STU_SC_031	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
31	Point	Vortechs 16000	<Null>	<Null>	41.77038	-71.429168	STU_SC_047	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
9	Point	Vortechs 2000	<Null>	<Null>	41.827288	-71.419321	STU_SC_096	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
17	Point	Vortechs 2000	<Null>	<Null>	41.907302	-71.436332	STU_SC_007	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
24	Point	Vortechs 2000	<Null>	<Null>	41.705349	-71.492855	STU_SC_001	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
87	Point	Vortechs 2000	<Null>	<Null>	41.818078	-71.396816	STU_SC_029	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
3	Point	Vortechs 3000	<Null>	<Null>	41.815196	-71.731797	STU_SC_026	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
4	Point	Vortechs 3000	<Null>	<Null>	41.934354	-71.46122	STU_SC_035	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
8	Point	Vortechs 3000	<Null>	<Null>	41.828626	-71.42665	STU_SC_089	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
56	Point	Vortechs 3000	<Null>	<Null>	41.933113	-71.464251	STU_SC_036	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
58	Point	Vortechs 3000	<Null>	<Null>	41.934542	-71.465574	STU_SC_037	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
82	Point	Vortechs 3000	<Null>	<Null>	41.736458	-71.297153	STU_SC_033	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
86	Point	Vortechs 3000	<Null>	<Null>	41.737597	-71.287904	STU_SC_098	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
1	Point	Vortechs 4000	<Null>	<Null>	41.813155	-71.732703	STU_SC_027	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
2	Point	Vortechs 4000	<Null>	<Null>	41.813195	-71.732916	STU_SC_028	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
6	Point	Vortechs 4000	<Null>	<Null>	41.826014	-71.418267	STU_SC_094	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
12	Point	Vortechs 4000	<Null>	<Null>	41.803039	-71.403293	STU_SC_085	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>

RIDOT Stormwater Treatment Units
ATTACHMENT 6D - RIDOT STU Inventory
(to be updated 2016)

OBJECTID *	Shape *	UNITTYPE	DESCRT	LOCAT	CITYTOWN	CNSLTNT	CONTRNO	INSTDATE	OWNER	RetroFt	PLANS	MaintReq
18	Point	Vortechs 4000	Reconstruction of Breackneck Hill Rd. Route 246 to Great Road	Breakneck Hill Road, opposite East Butterfly Way	Lincoln	Bryant Associates	2001-CH-050	8/20/2003	RIDOT	0	-1	<Null>
19	Point	Vortechs 4000	Improvements to Ramp Access from I-95 Memorial Blvd. & Francis St. - Contract 2 Route 6 (WB), STA. 310+29	<Null>	Providence	VHB	9909	9/27/2000	RIDOT	0	-1	<Null>
20	Point	Vortechs 4000	Freeway Construction Interchange 295 & Scituate Avenue,	<Null>	Johnston	Crossman Engineering	2002-CH-049	5/25/2004	RIDOT	0	-1	<Null>
79	Point	Vortechs 4000	Replacement of Warren Ave. Bridge #124	<Null>	Barrington	<Null>	2005-CB-057	<Null>	RIDOT	0	0	<Null>
5	Point	Vortechs 5000	Reconstruction of Route 4 & Route 1 Improvements to Route 1 from Mooresfield Road to Government Center Bridgetown Road, STA. 207+22	Bridgetown Road, STA 207+22 LT	South Kingstown	Crossman Engineering	2004-CH-019	<Null>	RIDOT	0	-1	<Null>
11	Point	Vortechs 5000	Improvements to I-195 - Contract 2 Stormdrain Retrofit Demo Project I-195 at Gano St./I-95 at Poe Street	<Null>	Providence	Maguire	9834	1/4/2000	RIDOT	-1	-1	<Null>
21	Point	Vortechs 5000	Freeway Construction Interchange 295 & Scituate Avenue,	<Null>	Johnston	Crossman Engineering	2002-CH-049	5/25/2004	RIDOT	0	-1	<Null>
25	Point	Vortechs 5000	Improvements to Cowesett Road	Cowesett Road Sta. 62+50 Lt.	Warwick	Crossman Engineering	9801	5/25/1999	RIDOT	0	-1	<Null>
26	Point	Vortechs 5000	Improvements to Cowesett Road	Cowesett Road Sta. 29+85 Lt. at rear access gate to YMCA	Warwick	Crossman Engineering	9801	5/25/1999	RIDOT (Warwick?)	0	-1	<Null>
41	Point	Vortechs 5000	Carolina Station Railroad Bridge No. 57	Carolina Back Road (Rte. 112), STA 18+00 LT	Charlestown	Maguire/Tutela	9749	4/5/2000	RIDOT	0	-1	<Null>
57	Point	Vortechs 5000	Reconstruction of Route 116/Route 146 Ramp NE-A, STA. 34+16	Rte 116 at Rte 146 N off-ramp	Lincoln	Maguire	2003-CH-009	<Null>	RIDOT	0	-1	<Null>
60	Point	Vortechs 5000	Reconstruction of Route 116/Route 146 Ramp NE-A, STA. 383+12	Rte 116 at Rte 146 off-ramp	Lincoln	Maguire	2003-CH-009	<Null>	RIDOT	0	-1	<Null>
62	Point	Vortechs 5000	Reconstruction of Route 116/Route 146 Ramp NE-A, STA. 409+65	<Null>	Lincoln	Maguire	2003-CH-009	<Null>	RIDOT	0	-1	<Null>
16	Point	Vortechs 7000	Gillen Plat Drainage Improvements	Rte. 146 N on-ramp at Charles Street	North Providence	Bryant Associates	2002-CH-008	1/8/2003	RIDOT	0	-1	<Null>
61	Point	Vortechs 7000	Reconstruction of Route 116/Route 146 Ramp NE-A, STA. 43+10	Rte 116 at Rte 146 off-ramp	Lincoln	Maguire	2003-CH-009	<Null>	RIDOT	0	-1	<Null>
88	Point	Vortechs 7000	Improvements to Route I-95, Providence River Bridge & East Approach Contract 7 Providence River to Brook Street India Street, STA100+60	<Null>	Providence	Maguire/VHB/Pare	2003-CB-011	<Null>	RIDOT	0	-1	<Null>
28	Point	Vortechs 9000	Modified 3R Improvements to Post Road, Division St. to Apponaug Bridge	Post Road Sta. 92+50 Lt.	Warwick	Commonwealth	9833	11/8/2000	RIDOT	0	-1	<Null>
29	Point	Vortechs 9000	Sockanosset Crossings, Intersection of New London Ave. (Route 2), Sockanosset Crossroad & Meshanticut Valley	West side of New London Ave. (Route 2), Sta. 140+25 Rt.	Cranston	Crossman Engineering	2002-CH-036	12/13/2004	RIDOT	0	-1	<Null>
42	Point	Vortechs 9000	Reconstruction of the Int. of US Route 1 at Route 78 & Airport Road	Northeast corner of Rte 1/Rte 78 Intersection Route 1, STA. 32+33	Westerly	United International	2000-CT-027	4/25/2002	RIDOT	0	-1	<Null>
52	Point	Vortechs 9000	Reconstruction of Route 4 & Route 1 Improvements to Route 1 from Mooresfield Road to Government Center Route 1, STA. 424+91	Tower Hill Road (Rte. 1) Sta 424+92 LT	South Kingstown	Crossman Engineering	2004-CH-019	<Null>	RIDOT	0	-1	<Null>
83	Point	Vortechs 9000	Replacement of Barrington Bridge #123 County Road, STA. 120+22	<Null>	Barrington	Siegmund and Assoc.	2003-CB-045	<Null>	RIDOT	0	-1	<Null>
115	Point	Vortechs model 19000	Sockanosset Crossings, Intersection of New London Ave. (Route 2), Sockanosset Crossroad & Meshanticut Valley	North of Sockanosset Crossroad Sta. 26+50, 140 Lt. on AP 38, Lot 6	Cranston	Crossman Engineering	2002-CH-036	12/13/2004	RIDOT	0	-1	<Null>
114	Point	Vortechs Model 9000	Improvements to Cowesett Road	Cowesett Road, Sta. 89+50 Left	Warwick	Crossman Engineering	9801	5/25/1999	RIDOT (Warwick?)	0	-1	<Null>
40	Point	VORT	Highway Runoff Mitigation	East of Rte. 1 North on paved drive	South Kingstown	Louis Berger	2003-CH-019	2/17/2004	RIDOT	0	-1	<Null>
105	Point	VORT	Highway Runoff Mitigation	<Null>	Warren	Louis Berger	2003-CH-019	2/17/2004	RIDOT	0	-1	<Null>
65	Point	Water Quality Basin	I-295 Safety IMP., Contract 3E NB Rest Area/ Bike Path	<Null>	Lincoln	Gordon Archibald	2005-CH-014	8/9/2006	RIDOT	0	-1	<Null>
66	Point	Water Quality Basin	I-295 Safety IMP., Contract 3E NB Rest Area/ Bike Path	<Null>	Lincoln	Gordon Archibald	2005-CH-014	8/9/2006	RIDOT	0	-1	<Null>
67	Point	Water Quality Basin	I-295 Safety IMP., Contract 3E NB Rest Area/ Bike Path	<Null>	Lincoln	Gordon Archibald	2005-CH-014	8/9/2006	RIDOT	0	-1	<Null>
68	Point	Water Quality Basin	Relocation of Route 403 - Bridge No. 1012 over Route 4	Basin #2, N side of Ramp 4-C Sta. 10+15 Rt. (W to N Ramp)	East Greenwich	Gordon Archibald	2004-CH-082	<Null>	RIDOT	0	-1	<Null>
69	Point	Water Quality Basin	Relocation of Route 403 - Bridge No. 1012 over Route 4	Basin #1, NE side of Ramp 4-C Sta. 20+24 Rt. (W to N Ramp)	East Greenwich	Gordon Archibald	2004-CH-082	<Null>	RIDOT	0	-1	<Null>
102	Point	Water Quality Basin	Stormwater Management Improvements to I-95, Outfall P54	Interstate 95 southbound at Route 37 off-ramp	Warwick	Crossman Engineering	2002-CH-011	10/30/2002	RIDOT	-1	-1	<Null>
103	Point	Water Quality Basin	Stormwater Management Improvements to I-95, Outfall P30	Interstate 95 southbound at Route 113 on-ramp	Warwick	Crossman Engineering	2002-CH-011	10/30/2002	RIDOT	-1	-1	<Null>
104	Point	Water Quality Basin	Stormwater Management Improvements to I-95, Outfall P75	Interstate 295 off-ramp at Route 113	Warwick	Crossman Engineering	2002-CH-011	10/30/2002	RIDOT	-1	-1	<Null>
118	Point	Water Quality Basin	<Null>	N of Rte. 6-Killingly St. Overpass	Providence	<Null>	2009-CH-041	<Null>	RIDOT	<Null>	<Null>	<Null>
119	Point	Water Quality Basin	<Null>	S. of Rte. 6-Killingly St. Overpass	Providence	<Null>	2009-CH-041	<Null>	RIDOT	<Null>	<Null>	<Null>
117	Point	Water Quality Basin - P41	Stormdrain Retrofit Demo Project - RIDOT Sites P38-2, P41, P71, P113	I-95 southbound Sta. 462+00 Lt. 1/2 mile north of exit 13 airport connector	Cranston	Crossman Engineering	2005-CH-033	7/17/2006	RIDOT	-1	-1	<Null>

RIDOT Stormwater Treatment Units
 ATTACHMENT 6D - RIDOT STU Inventory
 (to be updated 2016)

OBJECTID *	Shape *	UNITTYPE	CleanReq	InspReq	Latitude	Longitude	STU_ID	STU_TYPE	AssetID	InstallYr	Condition	ConditionIndex	Outfall_ID
18	Point	Vortechs 4000	<Null>	<Null>	41.906662	-71.433064	STU_SC_008	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
19	Point	Vortechs 4000	<Null>	<Null>	41.826538	-71.418054	STU_SC_095	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
20	Point	Vortechs 4000	<Null>	<Null>	41.807111	-71.510715	STU_SC_021	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
79	Point	Vortechs 4000	<Null>	<Null>	41.737608	-71.290434	STU_SC_099	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
5	Point	Vortechs 5000	<Null>	<Null>	41.493321	-71.455051	STU_SC_053	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
11	Point	Vortechs 5000	<Null>	<Null>	41.802829	-71.403158	STU_SC_086	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
21	Point	Vortechs 5000	<Null>	<Null>	41.801666	-71.511111	STU_SC_022	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
25	Point	Vortechs 5000	<Null>	<Null>	41.685362	-71.493447	STU_SC_118	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
26	Point	Vortechs 5000	<Null>	<Null>	41.685506	-71.481587	STU_SC_082	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
41	Point	Vortechs 5000	<Null>	<Null>	41.450511	-71.656751	STU_SC_081	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
57	Point	Vortechs 5000	<Null>	<Null>	41.936097	-71.466378	STU_SC_038	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
60	Point	Vortechs 5000	<Null>	<Null>	41.935027	-71.465201	STU_SC_039	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
62	Point	Vortechs 5000	<Null>	<Null>	41.934353	-71.455524	STU_SC_040	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
16	Point	Vortechs 7000	<Null>	<Null>	41.873317	-71.430826	STU_SC_009	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
61	Point	Vortechs 7000	<Null>	<Null>	41.935166	-71.464829	STU_SC_041	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
88	Point	Vortechs 7000	<Null>	<Null>	41.817803	-71.397161	STU_SC_030	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
28	Point	Vortechs 9000	<Null>	<Null>	41.686183	-71.45427	STU_SC_084	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
29	Point	Vortechs 9000	<Null>	<Null>	41.75564	-71.46266	STU_SC_020	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
42	Point	Vortechs 9000	<Null>	<Null>	41.357211	-71.806725	STU_SC_004	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
52	Point	Vortechs 9000	<Null>	<Null>	41.492484	-71.456338	STU_SC_054	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
83	Point	Vortechs 9000	<Null>	<Null>	41.736823	-71.293981	STU_SC_034	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
115	Point	Vortechs model 19000	<Null>	<Null>	41.818433	-71.397708	STU_SC_120	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
114	Point	Vortechs Model 9000	<Null>	<Null>	41.818556	-71.397093	STU_SC_119	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
40	Point	VORT	<Null>	<Null>	41.394819	-71.595845	STU_SC_044	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
105	Point	VORT	<Null>	<Null>	41.726272	-71.269051	STU_SC_043	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
65	Point	Water Quality Basin	<Null>	<Null>	41.94141	-71.443393	STU_WB_100	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
66	Point	Water Quality Basin	<Null>	<Null>	41.941601	-71.442379	STU_WB_101	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
67	Point	Water Quality Basin	<Null>	<Null>	41.941283	-71.442759	STU_WB_102	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
68	Point	Water Quality Basin	<Null>	<Null>	41.633947	-71.486641	STU_WB_074	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
69	Point	Water Quality Basin	<Null>	<Null>	41.630489	-71.485247	STU_WB_073	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
102	Point	Water Quality Basin	<Null>	<Null>	41.716411	-71.471512	STU_WB_013	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
103	Point	Water Quality Basin	<Null>	<Null>	41.749906	-71.44266	STU_WB_014	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
104	Point	Water Quality Basin	<Null>	<Null>	41.71653	-71.473667	STU_WB_015	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
118	Point	Water Quality Basin	<Null>	<Null>	41.822599	-71.469747	STU_WB_114	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
119	Point	Water Quality Basin	<Null>	<Null>	41.821266	-71.470818	STU_WB_115	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
117	Point	Water Quality Basin - P41	<Null>	<Null>	41.731367	-71.455972	STU_WB_105	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>

RIDOT Stormwater Treatment Units
 ATTACHMENT 6D - RIDOT STU Inventory
 (to be updated 2016)

OBJECTID *	Shape *	UNITYTYPE	DESCRT	LOCAT	CITYTOWN	CNSLTNT	CONTRNO	INSTDATE	OWNER	RetroFt	PLANS	MaintReq
72	Point	Water Quality Basin - P71	Stormdrain Retrofit Demo Project - RIDOT Sites P38-2, P41, P71, P113	I-95 median 200' N of I-295 northbound overpass	Warwick	Crossman Engineering	2005-CH-033	7/17/2006	RIDOT	-1	-1	<Null>
107	Point	Water Quality Basin 10 Discharge Chamber	Post Road Interchange-Phase 1 STA. 273+10	<Null>	North Kingstown	Gordon Archibald	2001-CH-015	7/2/2004	RIDOT	0	-1	<Null>
110	Point	Water Quality Basin 8 Discharge Chamber	Relocation of Route 403 - Post Road Interchange Phase 2 Davisville Access Road	<Null>	North Kingstown	Gordon Archibald	2003-CH-058	<Null>	RIDOT	0	-1	<Null>
111	Point	Water Quality Basin 9 Discharge Chamber	Relocation of Route 403 - Post Road Interchange Phase 2 Davisville Access Road STA. 122+80	<Null>	North Kingstown	Gordon Archibald	2003-CH-058	<Null>	RIDOT	0	-1	<Null>
108	Point	Water Quality Basin No. 11	Relocated Route 403 - Post Road Interchange - Phase 1	Davisville Access Road, Sta. 126+00 Rt.	North Kingstown	Gordon Archibald	2001-CH-015	7/2/2004	RIDOT	0	-1	<Null>
70	Point	Water Quality Basin No. 5	Relocated Route 403 - West Davisville Rd. Interchange	Devils Foot Road Sta. 50+50 Lt.	North Kingstown	Gordon Archibald	2002-CH-016	6/29/2004	RIDOT	0	0	<Null>
71	Point	Water Quality Basin No. 6	Relocated Route 403 - West Davisville Rd. Interchange	Devils Foot Road Sta. 47+50 Lt.	North Kingstown	Gordon Archibald	2002-CH-016	6/29/2004	RIDOT	0	0	<Null>
109	Point	Water Quality Basin No. 7	Relocated Route 403 - Post Road Interchange Phase 2	Davisville Access Road, Sta. 115+30 Rt.	North Kingstown	Gordon Archibald	2003-CH-058	<Null>	RIDOT	0	-1	<Null>
74	Point	Water Quality Structure	IMP. To I-195, Contract 9	Providence (India St.)	Providence	Maguire	2005-CH-052	<Null>	RIDOT	0	0	<Null>
75	Point	Water Quality Structure	IMP. To I-195, Contract 9	<Null>	Providence	Maguire	2005-CH-052	<Null>	RIDOT	0	0	<Null>
76	Point	Water Quality Structure	IMP. To I-195, Contract 9	<Null>	Providence	Maguire	2005-CH-052	<Null>	RIDOT	0	0	<Null>
77	Point	Water Quality Structure	IMP. To I-195, Contract 8 Ramps Se, NP, WN	<Null>	Providence	Maguire	2005-CH-051	<Null>	RIDOT	0	0	<Null>
78	Point	Water Quality Structure	IMP. To I-195, Contract 8 Ramps Se, NP, WN	<Null>	Providence	Maguire	2005-CH-051	<Null>	RIDOT	0	0	<Null>
106	Point	Water Quality Structure	IMP. TO I-195- CONTRACT 6A	<Null>	Providence	Maguire	2005-CH-100	<Null>	RIDOT	0	0	<Null>
116	Point	Water Quality Structure	IMP. To I-195, Contract 8 Ramps Se, NP, WN	<Null>	Providence	Maguire	2005-CH-051	<Null>	RIDOT	0	0	<Null>
63	Point	WQ Basin 3, Discharge Chamber	REL RTE 403 - RTE 4 INTERCHANGE PHASE 2	<Null>	East Greenwich/ North Kings town	Gordon Archibald	2005-CH-084	<Null>	RIDOT	0	-1	<Null>
64	Point	WQ Basin 4, Discharge Chamber	REL RTE 403 - RAILROAD BRIDGE 1009	<Null>	North Kingstown	Gordon Archibald	2005-CH-079	<Null>	RIDOT	0	-1	<Null>

RIDOT Stormwater Treatment Units
 ATTACHMENT 6D - RIDOT STU Inventory
 (to be updated 2016)

OBJECTID *	Shape *	UNITTYPE	CleanReq	InspReq	Latitude	Longitude	STU_ID	STU_TYPE	AssetID	InstallYr	Condition	ConditionIndex	Outfall_ID
72	Point	Water Quality Basin - P71	<Null>	<Null>	41.713328	-71.47231	STU_WB_104	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
107	Point	Water Quality Basin 10 Discharge Chamber	<Null>	<Null>	41.601644	-71.443911	STU_WB_005	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
110	Point	Water Quality Basin 8 Discharge Chamber	<Null>	<Null>	41.597136	-71.440184	STU_WB_050	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
111	Point	Water Quality Basin 9 Discharge Chamber	<Null>	<Null>	41.599387	-71.444391	STU_WB_051	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
108	Point	Water Quality Basin No. 11	<Null>	<Null>	41.603195	-71.447612	STU_WB_006	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
70	Point	Water Quality Basin No. 5	<Null>	<Null>	41.609288	-71.47082	STU_WB_018	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
71	Point	Water Quality Basin No. 6	<Null>	<Null>	41.609672	-71.471928	STU_WB_019	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
109	Point	Water Quality Basin No. 7	<Null>	<Null>	41.59623	-71.439995	STU_WB_049	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
74	Point	Water Quality Structure	<Null>	<Null>	41.818485	-71.391956	STU_SC_109	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
75	Point	Water Quality Structure	<Null>	<Null>	41.818854	-71.391333	STU_SC_110	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
76	Point	Water Quality Structure	<Null>	<Null>	41.817875	-71.390863	STU_SC_111	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
77	Point	Water Quality Structure	<Null>	<Null>	41.813477	-71.409725	STU_SC_106	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
78	Point	Water Quality Structure	<Null>	<Null>	41.814436	-71.405084	STU_SC_107	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
106	Point	Water Quality Structure	<Null>	<Null>	41.805321	-71.403748	STU_SC_114	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
116	Point	Water Quality Structure	<Null>	<Null>	41.814873	-71.409135	STU_SC_108	Swirl Chamber	<Null>	<Null>	<Null>	<Null>	<Null>
63	Point	WQ Basin 3, Discharge Chamber	<Null>	<Null>	41.627102	-71.484833	STU_WB_113	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>
64	Point	WQ Basin 4, Discharge Chamber	<Null>	<Null>	41.620738	-71.471014	STU_WB_112	Water Quality Basin	<Null>	<Null>	<Null>	<Null>	<Null>