



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

### **Progress Report University of Rhode Island January 31, 2009**

Reporting Period:	January 1, 2008 to December 31, 2008
University of Rhode Island Investigators	Lorraine Joubert, Marion Gold, Arthur Gold, and Lisa D. Philo
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 LeBlanc, Environmental Scientist RI Department of Transportation Office of Environmental & Intermodal Planning Two Capital 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:	10/1/05 – 3/31/10



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

### *Progress Summary January 1 – December 31, 2008*

### **Project Description**

With funding from the Rhode Island Department of Transportation 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 developing public education materials, outreach methods and related tools to assist the RI Department of Transportation (RIDOT), Rhode Island municipalities, and other groups implement effective stormwater management programs. This education and outreach project will directly support RIDOT and participating municipalities in complying with Phase II permit requirements.

The major project objectives are to:

- Promote public awareness of storm water impacts and control actions through a statewide media campaign;
- Develop educational materials and outreach methods for use by municipalities, state agencies, community organizations and others, in a readily accessible format;
- Provide model ordinances for local storm water management with related training; and
- Train government staff, local officials, and others in updated storm water management practices.

### **Major Accomplishments**

#### **State, Municipal and Private Sector Training**

Organized and conducted **eight** workshops, with supporting educational materials:

- *Everything You Need To Know About Erosion and Sediment Control* (Feb. 27, 2008 and Mar. 10, 2008)
- *Steal This Factsheet: Strategies for Reducing Stormwater Pollution* (Land & Water Summit, Mar. 15, 2008)
- *Certified Erosion, Sediment & Storm Water Inspector (CESSWI) Review Course* (Mar. 28, 2008)
- *Recent Advances in Lawn and Landscape Management* (Apr. 24, 2008)
- *Stormwater System Maintenance* (Apr. 29, 2008)
- *Healthy Lawncare* (May 22, 2008)
- *Reaching Out To Residents: Municipal Strategies for Public Stormwater Involvement* (Nov. 13, 2008)

Presentations and selected materials from the workshops mentioned above are available online at: <http://www.uri.edu/ce/wq/NEMO/Workshops-Support/index.htm#previous>

- In support of the March 28<sup>th</sup> CESSWI Review Course, held in cooperation with the national office of International Erosion Control Association (IECA), we worked with Natural Resources Conservation Service (NRCS) to schedule three certification exams (April, May, and September 2008) in Rhode Island and assisted in publicizing them. Six attendees of our review course went on to take the exam in 2008, and all of them passed, doubling the number of individuals with the CESSWI designation in RI and MA.

### **Additional Presentations**

- Lorraine Joubert presented the case study of URI's porous pavement parking lots at the meeting of the RI Society of Professional Engineers (Mar. 11, 2008).

### **Model Ordinances and Enforceable Policies**

- Sought legal review of the draft model ordinance for erosion and sediment control. Based on review comments, created a brief overview of minimum measures to be incorporated into local zoning and land development regulations as an alternative to, or in addition to, a separate ordinance.
- Our work on model ordinances for post construction stormwater management and example zoning provisions supporting low impact stormwater management is on hold pending completion of the stormwater standards manual, which may incorporate model language.
- Finalized outreach materials and methods to support adoption of the RIDEM model illicit discharge and detection ordinance and promote compliance among business owners. These are incorporated into the manual: *Reaching Out to Residents: Municipal Strategies for Public Stormwater Involvement*, described in the Municipal Outreach Materials and Methods section below.

### **Statewide Stormwater Education Campaign**

- Conducted a baseline awareness survey from January 2008 to March 2008 for the purposes of determining existing knowledge and attitudes related to stormwater among 18-65 year olds in Rhode Island. CE Outreach Center staff surveyed 384 people at four of the five Department of Motor Vehicles offices across the state. The survey results were analyzed, and the information was presented at an Ad Hoc Advisory Committee meeting on May 13, 2008. The results of the survey and subsequent discussion were used to shape the choice of messages for the statewide campaign. The survey summary as well as meeting agenda and minutes can be found online at: <http://www.uri.edu/ce/wq/RESOURCES/STORMWATER/advisory.htm>
- Finalized choices for logo (Know Where It Goes), tagline (Take simple steps to reduce stormwater pollution), image (orange, blue, and green storm drain), and media concepts ("Scary Dad" life-sized displays, "Scary Dad" bus shelter advertising, and "Uncle Jack" bus kings).
- Developed a new website (<http://www.ristormwatersolutions.org>) as a public information center for stormwater management.
- Displayed 10 life-sized "Scary Dads" at locations around the state.

- Aired 15- and 30-second radio spots on CLEAR Channel and WPRO stations during a 6-week time period in Jul. - Aug. 2008. More than 216 ads were played, reaching an estimated 389,900 listeners.
- Displayed “Scary Dad” ads on 12 bus shelters around the state, specifically at stops where RIPTA buses pick up riders to South County beaches. These ads ran for 2 months, between Jul. and Aug. 2008. The estimated daily effective circulation for the 12 bus shelters during that time period was 104,200 viewers.
- Displayed “Uncle Jack” ad on 15 buses for a 2-month period between Jul. and Aug. 2008. According to Direct Media, who was the firm responsible for placing the ads on the RIPTA buses, an estimated 72 percent of the Rhode Island population saw the bus kings 4 times per month, for a total of 2,880,000 gross monthly impressions.
- Hosted a Stormwater Campaign Kickoff at Goddard Park on July 17, 2008.

### **Municipal Outreach Materials and Methods:**

Produced two comprehensive train-the-trainer manuals for use by MS4s in educating public works staff and produced a complete binder of readily accessible outreach materials and strategies with instructions for direct use or adaptation by MS4s:

- Produced *Preventing Storm Water Pollution at Your Public Works Facility, A Trainer’s Guide* in February 2008. This training manual was based on the Dec. 2007 workshop, Stormwater Management at Your Public Works Facility: Employee Training. It was produced through the cooperative efforts of SRICD and RI NEMO, and it was sent to all who attended the Dec. workshop. It is available in PDF format at: <http://www.uri.edu/ce/wq/NEMO/Publications/index.htm>
- Produced *Stormwater System Maintenance: A Trainer’s Guide* in June 2008. This training manual was based on the Apr. 2008 workshop, Stormwater System Maintenance. It was produced through the cooperative efforts of SRICD and RI NEMO. It was distributed to all MS4s and is available in PDF format at: <http://www.uri.edu/ce/wq/NEMO/Publications/index.htm>
- Produced *Reaching Out to Residents: Municipal Strategies for Public Stormwater Involvement*, based on the Nov. 2008 workshop of the same name. The manual was distributed to all who attended the workshop, and is available online in various formats at: [http://www.ristormwatersolutions.org/SW\\_resourcesmanagers.html](http://www.ristormwatersolutions.org/SW_resourcesmanagers.html)

This manual contains all municipal outreach strategies and materials developed to date, including:

- Basic resources including: cartoons (4) developed specifically for the project by Don Bousquet; a fact sheet series (8); an article bank (16); and a compilation of resources from other sources. Instructions for suggested use are provided with each set of materials.
- Strategies for public education, outreach, and involvement on the topics: storm drain marking; yard care; pet waste; and illicit discharge, detection, and elimination.
- Resources developed specifically for children and educators.
- Resources for conducting outreach through the use of life-sized displays, radio, and cinema.

- Worked with URI Honors Communication class to develop educational materials on stormwater awareness and drain marking. The students created a video that will be used in future URI 101 classes and is also available to other MS4s as a training video for storm drain marking volunteers. It is available online at: <http://www.youtube.com/watch?v=82EdBKTipuA>
- Created “Know Where It Goes” storm drain markers, produced by Das Manufacturing, intended for MS4s to use at reduced cost.
- Organized storm drain marking events to assist MS4s in meeting outreach requirements and as a model for outreach by MS4s in partnership with student/community groups. Held five separate storm drain marking days (Apr., Sep., and Oct. 2008) in cooperation with Save They Bay and Surfrider. Students from URI Honors Communication and URI 101 classes participated, and the markings occurred in the MS4s of URI and Narragansett. More than 70 students were involved, and more than 450 drains were marked.
- Continued to maintain the Stormwater Management Resource Center website (<http://www.uri.edu/ce/wq/RESOURCES/STORMWATER/index.htm>) which now functions primarily as an administrative hub for members of the Project.
- To promote awareness and acceptance of innovative stormwater management methods, we continued to maintain the RI web-based inventory of RI LID projects and to share these examples with the University of New Hampshire Stormwater Center. Due to technical issues with the UNH site, we will be working with Connecticut NEMO on a national LID inventory. We expect the CT inventory will be ready to accept RI sites in February 2009.

### **Project Coordination**

Continued to coordinate activities with the project advisory committee and seek their review and input through email notices, ad hoc committees, and meetings with project staff. Committee input and involvement was sought in development of each training program.

Maintained communication with communities and other MS4s participating in the project - known as the Local MS4 Committee, through email notices and workshops.

### **Future Activities – 2009**

- Programs on model ordinances and RI Stormwater Standards Manual to be developed, based on release of updated manual. Informal work session on local methods for updating Soil Erosion and Sediment Control requirements may be held in March 2009 based on DEM review and if determined that coordination with post construction permit review and field inspection procedures is not necessary.
- Complete the follow-up public survey, which will replicate the baseline survey conducted Jan.-Mar. 2008. This will attempt to measure the reach of the statewide media campaign.
- Expand the new RI Stormwater Solutions website (<http://www.ristormwatersolutions.org>), and phase out the administrative website (<http://www.uri.edu/ce/wq/RESOURCES/STORMWATER>).

- Potentially launch another small round of statewide media.
- Potentially work with RI PBS on a stormwater segment.
- Continue the existing program we developed with URI 101 students to assist MS4s with storm drain marking. Warwick, Tiverton, and Barrington have expressed interest.
- Make any necessary revisions and additions to the strategies and materials contained in the *Reaching Out To Residents* manual.
- Host another GreenShare Garden School workshop on stormwater management in your garden.
- Host a train-the-trainer event for Master Gardeners on how to use the prepared training module, *Beautiful Gardens, Clean Waters, Healthy Lawns*.
- Continue to develop and implement the children's and teacher's stormwater resources, focusing on workshops that showcase the EnviroScape model and Scary Dad. Burrillville has expressed interest in conducting this at a local library.
- To support awareness and local acceptance of LID methods, expand web-based case studies of RI LID projects, in cooperation with CT NEMO as part of a national inventory.

**Storm Water Phase II Public Outreach, Education, Involvement and Participation Project  
Progress by Task January 1 – December 31, 2008**

**A. Local Needs Assessment and Advisory Committee Development**

**Tasks Progress 2008**

- |   |  |
|---|--|
| <p>1. Form and facilitate an advisory steering committee with input from DEM and DOT</p> <p>a) Maintain communication by email, mail and web meetings.</p> <p>b) Organize a work group of municipal and non traditional stormwater managers (local groups) responsible for implementation of Phase II measures.</p> | <p>1. Continued to maintain the website and Advisory Committee list located at: <a href="http://www.uri.edu/ce/wq/RESOURCES/STORMWATER">http://www.uri.edu/ce/wq/RESOURCES/STORMWATER</a></p> <p>a) Continued to solicit comments from the Advisory Committee on activities and workshop planning including 2 workshops (<i>Erosion and Sediment Control</i> and <i>Reaching Out To Residents</i>), and in review of municipal outreach strategies and the statewide campaign logos /taglines and final media concepts.</p> <p>Met with Advisory Committee May 13, 2008 to present the results of the public survey and to discuss final content for the statewide media concepts.</p> <p>b) Task completed in 2007, except to continue to work with MS4s participating in the project (the local MS4 committee) group, generally by contacting them about training opportunities or offering specific assistance, when requested.</p> |
| <p>2. Conduct a needs assessment.</p> <ul style="list-style-type: none"> <li>▪ Review available stormwater mgt plans</li> <li>▪ Survey municipal stormwater management capacity</li> </ul>  | <p>2. Task completed in 2007.</p>  |

**Task A Issues and Future Activities**

Task A is completed except for continued coordination with the project advisory committee and participating MS4s throughout the project.

**B. State, Municipal and Private Sector Training Curriculum Development**

**Tasks Progress 2008**

- |  |                                   |
|--|-----------------------------------|
| <p>1. Prepare a list of training needs based on 7 training topics (listed below) and the local needs assessment. Solicit review and comment from the advisory committee.</p> | <p>1. Task completed in 2006.</p> |
|--|-----------------------------------|

2. Prepare outlines of training modules and solicit review and comment from the advisory committee on the following training topics:

- 1) DEM Stormwater manual:
  - Overview of manual and standards;
  - Proper use of LID mgt practices; and
  - TR55 for LID application.
- 2) Public Outreach
  - Scope of the stormwater problem and impacts on local waters in urban, suburban and rural areas;
  - Methods for effective community education and outreach by municipalities.
- 3) Pollution Prevention and Good Housekeeping for Municipalities to include:
  - Public works facilities O&M;
  - Roadway stormwater system maintenance; and
  - Grounds management.
- 4) Illicit Discharge Detection and Elimination
- 5) Development and Amendment of Enforceable Policies:
  - Soil erosion and sed. control; stormwater utility districts.
  - Post-construction stormwater maintenance and re-development standards; pet waste.

### **2.1) DEM Stormwater Manual training**

Training on the RI Stormwater Manual is on-hold until the new manual is available.

### **2.2) Public outreach**

A baseline public survey was conducted between Jan. and Mar. 2008.

Finalized the logo, tagline, and media concepts for the statewide campaign, as developed by Clarendon Group. Initiated the statewide media campaign from Jul. through Aug. 2008, including radio ads, bus shelter ads, bus king ads, and life-sized displays.

Hosted a Kickoff Event at Goddard Park on July 17, 2008.

Developed the manual, *Reaching Out To Residents*, for municipalities, containing all strategies and materials developed to assist public stormwater education and involvement. Contents of the manual include: cartoons; factsheet series; articles; strategies for storm drain marking, lawn care, pet waste, and illicit discharge and detection; and resources for advertising through radio and cinema.

Conducted the workshop, *Reaching Out to Residents: Municipal Strategies for Public Stormwater Involvement* (Nov.13, 2008). See Project Evaluation Summary Section for details.

Held initial meeting with Rhode Island Public Broadcasting Service (PBS) on Dec. 5, 2008 to explore ideas for incorporating stormwater into new broadcasting. Working with members of RIDEM, Save The Bay, and Audubon to generate appropriate background information and story ideas.

### **2.3) Pollution prevention and good housekeeping for municipal facilities**

Conducted workshop, *Recent Advances in Lawn and Landscape Management* Apr. 24, 2008. See Project Evaluation Summary Section for details.

Conducted workshop, *Stormwater System Maintenance* (in cooperation with SRICD) Apr. 29, 2008. See Project Evaluation Summary Section for details.

Developed the manual, *Stormwater System Maintenance: A Trainer's Guide*. Distributed it to all MS4s and made it available online.

### **2.4) Illicit discharge detection and elimination and related public education**

DEM responsible for training. See item C.6 below for supporting materials.

### **2.5) Model ordinances and enforceable policies:**

#### **a) Model ordinances on post construction stormwater control and related public outreach**

Work on post construction ordinances and supporting outreach is on hold pending completion of the state standards.

Supporting educational materials and outreach:

- Porous Pavement technical bulletins. Collected information to update the URI porous pavement parking lot case study, to include parking lot



expansion, construction specifications, performance, and current findings and recommendations. Continued to maintain website and respond to requests for information about porous pavements.

- Publicized a stormwater management seminar organized by the Aquidneck Island Watershed Council (Jan. 2009), a Porous Pavement workshop held by UNH Stormwater Center (Nov. and Dec. 2008), and an LID Conference held in NH (Dec. 2008).
- Web-based LID Inventory for Rhode Island: To enhance awareness of local LID practices among local officials, state regulators, designer, installers and other groups, URI developed several LID case studies, displayed using Google maps. This has been available for most of the reporting period on the project website, and we shared all RI case studies with the University of New Hampshire Stormwater Center for their regional LID inventory. Due to technical difficulties with the UNH site, we have recently arranged to transfer the sites to a new national LID inventory being developed by CT NEMO at: <http://clear.uconn.edu/tools/lid/> Advisory committee input is needed to ensure this database is useful and to assist with making data available on new case studies.
- Factsheet Series for Local Decision Makers: Intended as supporting information on the need for improved local stormwater controls, emphasizing Phase II requirements and LID practices. To ensure consistency with state requirements and to avoid duplication, this is also on-hold until release of the stormwater standards.

#### **b) Model ordinance on erosion and sediment control and related public outreach**

- Draft materials related to erosion and sediment control, including model ordinance was submitted to DEM for review. Obtained legal review to address concerns regarding local authority to amend the ordinance. URI and SRICD will be working with NRCS to prepare final draft materials to ensure consistency with an update of the RI Soil Erosion and Sediment Control Manual. We will also be coordinating with staff developing self-certification for erosion and sediment control.
- A half-day workshop introducing erosion and sediment control requirements and local control options is tentatively planned for March 2009.

6) Budget Planning

**6) Budget planning:** DEM has primary responsibility.

7) Additional DOT staff training

**7) DOT Training:** Prepared training modules and delivered five workshops on the following topics:

#### **Everything You Need To Know About Erosion and Sediment Control: Installation, Maintenance and Inspection (Feb. 27 and Mar. 10, 2008)**

See Project Evaluation Summary Section for details.

#### **Certified Erosion, Sediment & Storm Water Inspector (CESSWI) Review Course (Mar. 28, 2008)**

See Project Evaluation Summary Section for details.

#### **Recent Advances in Lawn and Landscape Management (Apr. 24, 2008)**

See Project Evaluation Summary Section for details.

**Stormwater System Maintenance (Apr. 29, 2008)**  
 See Project Evaluation Summary Section for details.

**Task B Issues and Future Activities**

Training modules to be developed with advisory committee review include:

- Model ordinances - Development of post construction stormwater ordinances is dependent upon release of RI Stormwater Manual; training on model ordinances for erosion and sediment control and nonstructural stormwater controls should also be consistent with updated manual, but may be held separately based on DEM input.
- RI Stormwater Manual training to be developed and scheduled based on release of the final manual. Tentatively planned for spring 2009.

**C. Coordinated Stormwater Message for Use in Public Outreach**

**Tasks**

**Progress 2008**

- |   |  |
|---|--|
| <p>1. Review and collect current outreach materials used in Rhode Island for stormwater management (especially, FHWA, EPA, DOT and DEM materials).</p>  | <p>1. Completed June 2006.</p>   |
| <p>2. Review national literature for comparative purposes and identify other appropriate outreach materials, messages and delivery methods.</p>   | <p>2. Completed June 2006.<br/><br/>Continuing to monitor national outreach materials through, the EPA library, NEMO National Network, the EPA NPS listserve, and other sources.</p>   |
| <p>3. Prepare a consistent message for state agencies, communities and watershed organizations regarding why the public should be concerned about the impacts of stormwater on receiving waterbodies. Solicit review and comment from the advisory committee.</p> | <p>3. Clarendon Group provided revised media campaign concepts, based on final selection of the logo and tagline. These were reviewed at an Advisory Committee meeting on May 13, 2008, and the final choices were made.</p> |
| <p>4. Identify best available options for delivery of the messages and materials discussed in task 3 and 6.</p>   | <p>4. Clarendon Group suggested the use of radio, bus shelter, and bus king advertising based on the results of the public survey and focus groups and the budget constraints.</p>   |
| <p>5. Deliver the consolidated</p>  | <p>5. The statewide media campaign was run in the summer of 2008:</p>  |

state-agency message in task 3. Continue delivery of consolidated message.

- Developed a new website (<http://www.ristormwatersolutions.org>) as a public information center for stormwater management.
- Displayed 10 life-sized “Scary Dads” at locations around the state.
- Aired 15- and 30-second radio spots on CLEAR Channel and WPRO stations during a 6-week time period in Jul. - Aug. 2008. More than 216 ads were played, reaching an estimated 389,900 listeners.
- Displayed “Scary Dad” ads on 12 bus shelters around the state, specifically at stops where RIPTA buses pick up riders to South County beaches. These ads ran for 2 months, between Jul. and Aug. 2008.
- Displayed “Uncle Jack” ad on 15 buses for a 2-month period between Jul. and Aug. 2008.
- Hosted a Stormwater Campaign Kickoff at Goddard Park on July 17, 2008.

Continue to update the RI Stormwater Solutions website and promote the logo’s message through consistent use of it on all documents produced.

6. Using the consistent message in task 3 as a starting point, develop source-specific contamination outreach messages and materials.

6. Prepared four complete strategies for public education and involvement on the topics of: storm drain marking; lawn care; pet waste; and illicit discharge, detection, and elimination. These strategies and their supporting materials were included in the manual, *Reaching Out To Resident*, which was showcased at the workshop held Nov. 13, 2008.

7. Run a pre-survey followed up by post-survey after the outreach is conducted to see how effective the program was. Make adjustments to the outreach program as needed.

7. Conducted a baseline awareness survey from January 2008 to March 2008 for the purposes of determining existing knowledge and attitudes related to stormwater among 18-65 year olds in Rhode Island. CE Outreach Center staff surveyed 384 people at four of the five Department of Motor Vehicles offices across the state. The survey results were analyzed, and the information was presented at an Ad Hoc Advisory Committee meeting on May 13, 2008. The results of the survey and subsequent discussion were used to shape the choice of messages for the statewide campaign. The survey summary as well as meeting agenda and minutes can be found online at: <http://www.uri.edu/ce/wq/RESOURCES/STORMWATER/advisory.htm>

**Task C Issues and Future Activities**

The post-survey will be conducted in Spring 2009.

Potentially launch another small round of statewide media, dependent upon budget and available resources.

**D. Implementation Schedule, Evaluation and Assessment**

**Tasks**

**Progress 2008**

1. Develop an implementation schedule each permit year for each

1.URI and SRICD met with DEM and DOT project staff to review the draft 2009 annual implementation schedule in October 2008.

set of tasks in the scope of work and solicit review and comment from the advisory committee.

- |  |   |
|--|---|
| 2. Incorporate comments from the advisory committee and present to DOT and DEM for final approval.   | 2. DEM and DOT comments were incorporated and the annual plan updated in November 2008.                           |
| 3. Draft annual evaluation and assessment reports for this scope of work each permit year and solicit review and comment from the advisory committee.                        | 3. 2007 annual report prepared and submitted to the advisory committee. Summary of program effectiveness follows. |
| 4. Incorporate comments from the advisory committee and present report to DOT and DEM for final approval.  | 4. No substantive comments received from the advisory committee.  |
| 5. With assistance of advisory committee, adjust implementation schedule as needed based on annual evaluation. Provide any recommended changes to DOT/DEM for final approval | 5. No substantive comments received from the advisory committee   |

#### **Task D Issues and Future Activities**

With the project scheduled to end March 31, 2009, URI applied for a one-year, no-cost extension to allow sufficient time to conduct training on updated standards and related post construction ordinances. The extension to March 31, 2010 was approved and signed by RIDOT and RIDEM directors in November 2008. Depending upon when the standards are released, and time needed to design training and process subcontracts, it is possible that an additional extension will be needed.

## 2008 Project Evaluation Summary

### MS4 Participation in the Phase II Stormwater Education and Outreach Project

Of the 45 MS4s (39 municipalities and 6 institutions) a total of 32 (71%) are officially participating the Stormwater Education and Outreach Project. However, most of the non-participating MS4s do attend workshops and all receive our e-mails and notifications.

#### Workshop Effectiveness

- ***Everything You Need To Know About Erosion and Sediment Control*** (Feb. 27, 2008 and Mar. 10, 2008)

Eighty-six (86) participants from government, private sector, and non-profit organizations attended the February workshop. A total of 20 MS4s were represented (approximately 44%). The final attendance list is attached.

Overall the participants felt that the information presented was relevant to their work and would be useful for them. They overwhelmingly felt that the pace and level of technical information was appropriate. Several participants mentioned that site visits would have been useful. Seventy-eight percent (78%) of the participants who answered the question (32 out of 41) indicated that they do plan to change their erosion and sediment control practices based on the information presented in the workshop. Some of the changes mentioned most frequently included: increasing inspection and enforcement; adding new methodologies; and choosing methods based on site-specific conditions. A summary of the evaluation data is attached.

Sixty-eight (68) participants from government, private sector, and non-profit organizations attended the March workshop. A total of 8 MS4s were represented (approximately 18%). The final attendance list is attached.

Overall the participants felt that the information presented was relevant to their work and would be useful for them. They overwhelmingly felt that the level of the technical information was appropriate, although the pace of the workshop was rated as somewhat easy for the majority. Fifty-eight percent (58%) of the participants who answered the question (21 out of 36) indicated that they do plan to change their erosion and sediment control practices based on the information presented in the workshop. The changes mentioned most frequently included: reducing the use of hay bales and strengthening ordinances/requirements. A summary of the evaluation data is attached.

- ***Certified Erosion, Sediment & Storm Water Inspector (CESSWI) Review Course*** (Mar. 28, 2008)

Fifty-five (55) participants from government and private sector attended the CESSWI Review Course. A total of 10 MS4s were represented (approximately 22%). The final attendance list is attached.

Overall the participants felt that the material presented was highly relevant to their work and would be useful for them. They also indicated that the pace and the level of technical information were appropriate, although perhaps faster and somewhat easier than other workshops. A summary of the evaluation data is attached.

Six of the workshop participants went on to take the CESSWI exam in 2008, and all of them passed, earning the designation of Certified Erosion, Sediment and Storm Water Inspector. That consequently doubled the number of individuals with the CESSWI designation in Rhode Island and Massachusetts.

- ***Recent Advances in Lawn and Landscape Management*** (Apr. 24, 2008)

Forty-one (41) participants from government, private sector, and non-profit organizations attended this workshop. A total of 9 MS4s were represented (20%). The final attendance list is attached.

Overall the participants felt that the material presented was highly relevant to their work and would be useful for them. They also indicated that the pace of the workshop was appropriate, although the level of technical information was measured as “slightly easy” for the majority. The raw evaluation data is attached.

- ***Stormwater System Maintenance*** (Apr. 29, 2008)

Forty-one (41) participants from government, private sector, and non-profit organizations attended this workshop. A total of 9 MS4s were represented (20%). The final attendance list is attached.

Overall the participants felt that the material presented was highly relevant to their work and would be useful for them. They also indicated that the pace of the workshop was appropriate, although the level of technical information was measured as “slightly easy” for the majority. The raw evaluation data is attached.

- ***Reaching Out To Residents: Municipal Strategies for Public Stormwater Involvement*** (Nov. 13, 2008)

Fifty-four (54) participants from government, private sector, and non-profit organizations attended this workshop. A total of 24 MS4s were represented (53.3%). The final attendance list is attached.

Of the 54 attendees, 34 returned a completed survey, a 63% response rate. Generally, respondents felt that the information they received was useful and that their reasons for attending were satisfied. We received many positive comments about the usefulness of the materials immediately after the workshop and via e-mail. There were several responses indicating that they would have liked to have the materials sooner. A summary of the evaluation data is attached.

## Attachments and Web Documents

### MS4 Participation List

LocalCommitteeList07-15-08.pdf

### Advisory Committee Participation List

AdvisoryCommitteeMembers-07-15-08.pdf

### Administrative Documents Online At:

<http://www.uri.edu/ce/wq/RESOURCES/STORMWATER>

Click onto "Stormwater Advisory Committee" for:

- Advisory Committee agendas, minutes and materials submitted for review.
- Ad hoc committees and materials submitted for review.

### Materials Created by the Project Online At:

<http://www.ristormwatersolutions.org>

## Workshop Attendance Lists and Evaluations

*Everything You Need To Know About Erosion and Sediment Control* (Feb. 27, 2008 and Mar. 10, 2008)

ErosionSediment.FinalAttendance.Feb2008.xls

ErosionSediment.Feb2008.EvaluationSummary.doc

ErosionSediment.FinalAttendance.Mar2008.xls

ErosionSediment.Mar2008.EvaluationSummary.doc

*Certified Erosion, Sediment & Storm Water Inspector (CESSWI) Review Course* (Mar. 28, 2008)

CESSWI.FinalAttendance.Mar2008.xls

CESSWI.EvaluationSummary.doc

*Recent Advances in Lawn and Landscape Management* (Apr. 24, 2008)

Landscape.Apr2008.AttendanceFINAL.xls

Landscape.Apr2008.EvaluationData.xls

*Stormwater System Maintenance* (Apr. 29, 2008)

StormwaterSystemMaintenance.Apr2008.AttendanceFinal.xls

StormwaterSystemMaintenance.Apr2008.EvaluationData.xls

*Reaching Out To Residents: Municipal Strategies for Public Stormwater Involvement* (Nov. 13, 2008)

Municipal.Nov2008.Attendance.Final.xls

Municipal.Nov2008.EvaluationSummary.doc