

Welcome!

The webinar will begin shortly.

December 10, 2015



The Watershed Resources Registry

Andrew Wimsatt, Moderator

December 10, 2015



AASHTO Innovation Initiative (A.I.I.)

Dedicated to sharing...

- High payoff,
- Market-ready technologies

Accelerating adoption of innovation
among...

- Peers in U.S. transportation agencies

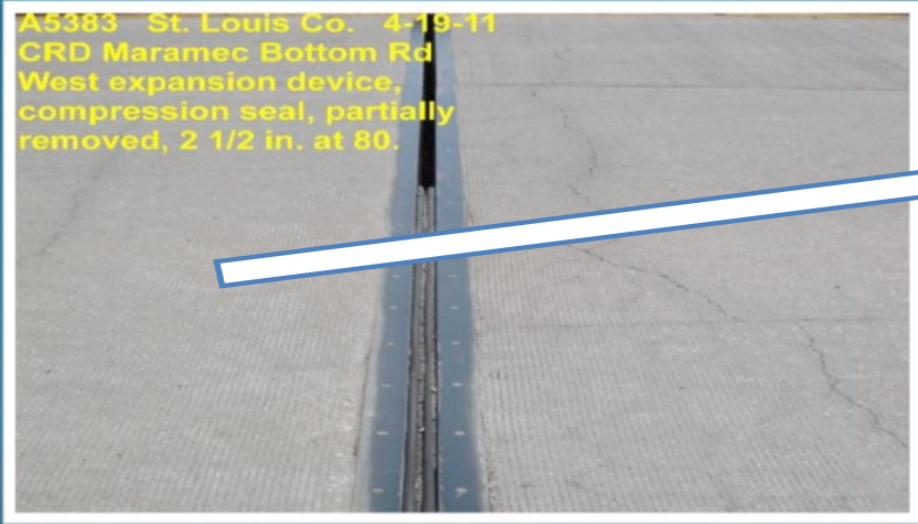
aai.transportation.org



Question and Comment Box

JOINT MAINTENANCE

WATERPROOF WITHOUT REPLACEMENT



A5383 St. Louis Co. 4-19-11
CRD Maramec Bottom Rd
West expansion device,
compression seal, partially
removed, 2 1/2 in. at 80.

GoToWebinar Control Panel

Attendees: 3 out of 101

Names – Alphabetically

	AASHTO Webinar 1 - Organizer, Presenter
	Mark Croarkin - Organizer
	Andrew Wimsatt - Me

Audio

Call in number: 1 (888) 585 9008
Conference room number: 259-475-869

Questions

Welcome to the AASHTO Innovation Initiative Webinar on Bridge Expansion Joint Systems. Please mute the speakers on your computer to minimize feedback. We will start the webinar shortly.

Q: Hello, this is a question. What are bridge expansion joints?

Type question here.

Send

AASHTO Innovation Initiative Presents a Webinar on Bridge Expansion Joints
Webinar ID# 136-098-387

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Today's Presenters

- **Bill Seib**, Regulatory Branch Chief, USACE, Baltimore District
- **Ralph Spagnolo**, Watershed Program Manager, US EPA Region III
- **Donna Buscemi**, NEPA Team Leader, Maryland State Highway Administration
- **Theresa Foye**, GIS Specialist, Maryland Environmental Service
- **Sandy Hertz**, Deputy Director, Office of Environmental Design, Maryland State Highway Administration



WRR Webinar Agenda



- **WRR Overview – Corps Perspective**
- **WRR Overview – EPA Perspective**
- **WRR Overview – DOT Perspective**
- **Tour of the WRR Website and Application**
- **Wrap-Up and Q/A Session**

WRR Overview – Corps Perspective

Bill Seib

*US Army Corps of Engineers,
Baltimore District*





Items to Consider

1. **Cost**
2. **Implementation & Consistency**
3. **Learning Curve**
4. **Training**
5. **Expansion – e.g., PA, DE, etc.**

WRR Overview – EPA Perspective

Ralph Spagnolo

US EPA Region III



What makes the WRR unique?



- **CWA 303(d), 319, 401, 402, 404**
 - **Watershed planning, permit review, mitigation assessments**
 - **TMDL and WIP applications**
 - **Stormwater management**
- **Resource conservation/ environmental resource planning**
- **Green infrastructure opportunities**
- **ESA Section 7 (threatened/endangered species)**
- **NEPA project reviews**

WRR Overview – DOT Perspective

Donna Buscemi

*Maryland State Highway
Administration*



WRR Background



- **Green Highways Partnership Pilot Project**
- **Watershed approach & GIS technology used to locate and prioritize areas for quality natural resource protection and restoration of impaired resources**
- **Holistic understanding of Maryland's resources available through the public website – watershedresourcesregistry.com**

Need for WRR in Maryland



- **Address 2008 Compensatory Mitigation Rule**
 - Integrates multi-agency programs (CWA, NEPA, resource conservation, TMDL implementation, etc.)
 - Fosters data and resource sharing among agencies
 - Facilitates multi-agency input and coordination





Need for WRR in Maryland



- **Do More with Less**
 - Saves time and \$, and increases program efficiencies
 - Screen for preferred actions
 - Maximizes watershed benefits



Estimate of Potential Mitigation Savings



Task	Cost without WRR	Cost with WRR	Cost Savings with WRR	Time without WRR	Time with WRR	Time Savings with WRR
Site Search	\$50,000	\$15,000	\$35,000	6 months	2 months	4 months
Design	\$400,000	\$355,000	\$45,000	18 months	15 months	1 to 3 Months
Agency Coordination/ Regulatory Review	\$8,000	\$5,500	\$2,500	6 months	4 months	2 months
Total	\$458,000	\$375,500	\$82,500	30 months	21 months	7 to 9 Months

*Cost/time savings includes only mitigation site approval tasks and does not include construction phase. Agency savings as shown includes their role in Site Search and Design approvals.



Additional Applications

- **The WRR Supports:**
 - Green Highways Partnership
 - Green Infrastructure
 - Climate Change
 - Eco-Logical
 - NEPA Planning Process
 - TMDL Implementation





Pulling & Keeping Together a Team

- 
- **Shared Goals**
 - **Gain Agency Commitments**
 - **Include GIS Practitioners**



Eight Suitability Analyses

- 1. Preserve Wetlands**
- 2. Restore Wetlands**
- 3. Preserve Riparian Zones**
- 4. Restore Riparian Zones**
- 5. Preserve Uplands**
- 6. Restore Uplands**
- 7. Preserve Healthy Stormwater Systems**
- 8. Restore Degraded Stormwater Infrastructure Systems and Areas**



<http://www.southof50.net/pictures.php?park=mattawoman>

Suitability Analyses Development



- **Determined Relevant Data**
- **Discussed Watershed Need**
- **Developed Criteria**
- **Documented and Tracked Key Decisions**



Wetland Preservation

Map and score those wetlands that are in great or pristine shape but which are not already permanently preserved via public conservation organization ownership, easement or deed restriction

Riparian Preservation



☒ Models

☒ Watershed Resources

- ☐ Upland Preservation
- ☐ Upland Restoration
- ☐ Wetland Preservation
- ☐ Wetland Restoration
- ☒ Riparian Preservation
 - ☐ Not Suitable
 - 1 ★
 - 2 ★★
 - 3 ★★★
 - 4 ★★★★
 - 5 ★★★★★
- ☐ Riparian Restoration
- ☐ Stormwater Natural Ir
- ☐ Stormwater Compron

☐ Water

☐ Terrain

Add Data



Tour of the WRR Website & Application

Theresa Foye

Maryland Environmental Service



Wrap-Up and Q/A Session

Sandy Hertz

*Maryland State Highway
Administration*





How Can We Help?

- **Regional Workshops**
- **Hands-On Technical Assistance**
- **Webinars**



Next Steps for the WRR

- **National rollout with support from AASHTO Innovation Initiative**
- **Redeployment of the application website to allow for multi-platform use**
- **Continued UAT**
- **Model enhancements as new data comes available**





Thank you!

**“Coming together is a beginning;
keeping together is progress;
working together is success.”**

Henry Ford

Question & Answer Session



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