



# An Ecological Framework for Reviewing Compensatory Mitigation: Anticipating the Unexpected

**Compensatory Mitigation Webinars Series** 



# Goal of This Webinar

To address project management, remediation and adaptive management.

#### **Learning Objectives:**

- 1) To obtain a better understanding of how to make adjustments based on new information learned during constructions, i.e. unanticipated variability in hydrology, rock outcroppings, weather such as sustained drought, etc.
- Post construction adjustments/changes based on monitoring results or unforeseen events such as extreme weather events or fire
- 3) When to adapt to achieve existing performance standards and when to change the performance standards (i.e., beavers change vegetation)
- The degree of regulatory oversight needed during construction phase for ensuring changes can be made in the field in coordination w/ agencies.
- 5) Use of As-Built plans to ID changes made after final design.



Steve Martin, USACE Institute for Water Resources

# WEBINAR AGENDA

# Welcome & Introductions (10 minutes)

### **Presentations** (1.5 hours)

- Anticipating the Unexpected Soil Compaction and Acid-S Conditions
   W. Lee Daniels, Thomas B. Hutcheson Professor of Environmental Soil
   Science, Virginia Tech (30 minutes)
- Anticipating the Unexpected in the Context of Dam Removal Shawn Chartrand, Postdoctoral Research Fellow, Vanderbilt University (30 minutes)
- Adaptive Management A Regulator's Perspective Krystel Bell, Regulatory Program Manager, U.S. Army Corps of Engineers (30 minutes)

**Questions/Discussion** (20 minutes)

# Welcome!

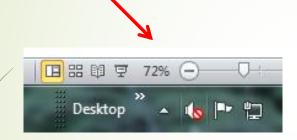
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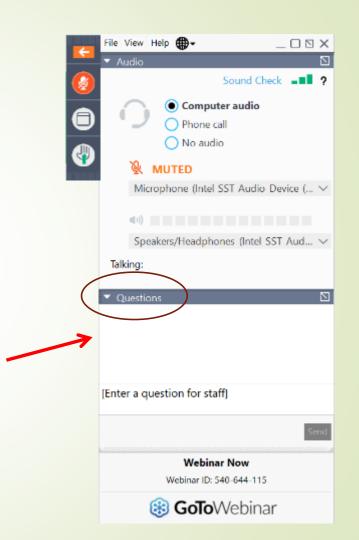
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## www.aswm.org



#### **ASWM Upcoming Webinars**

- EPA Region 10 Tribal Wetland Training Webinar: Balancing Tribal Economic Development, Sustainable Cultural Uses and Wetland/Aquatic Resource Protection and Restoration - 6/25/19
- Compensatory Mitigation Webinar 7: An Ecological Framework for Compensatory Mitigation: Anticipating the Unexpected -6/27/19

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#### **EPA Issues Guidance on Clean Water Act Water Quality Certification**

On Enday, June 7th, the U.S. Environmental Protection Agency (EPA) released its guidance on Section 401 of the Clean Water Act (CWA). Under Executive Order 13868, "Promoting Energy Infrastructure and Economic Growth," EPA was directed to issue guidance for federal permitting agencies and state and authorized tribal authorities to "modernize previous guidance" and darify existing CWA Section 401. requirements. Executive Order 13868 also directed EPA to propose new rules modernizing the agency's CWA Section 401 implementing. regulations by August 8, 2019. The agency intends to propose regulations that may help further danfy and streamline CWA Section 401 certifications. The guidance as written proposes restrictions on state and tribal authority to condition Section 401 permits.

## Upcoming ASWM Webinars

#### Clean Water Act Section 401 Comment Letters Submitted

The Association of State Wetland Managers (ASWM) submitted a comment letter regarding pre-proposal recommendations to the U.S. Environmental Protection Agency as they examine the Section 401 Handbook as directed by Executive Order 13868, Promoting Energy Infrastructure and Economic Growth, ASWM recommends no changes to





#### ASWM RECENT PUBLICATIONS

· Healthy Wetlands, Healthy Watersheds Leveraging State Wetland Restoration



#### Association of State Wetland Managers - Protecting the Nation's Wetlands.



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#### **Compensatory Mitigation Webinar Series**



**ASWM-NRCS Wetland Training Webinar** 



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For assistance, please contact Laura Burchill laura@aswm.org or (207) 892-3399.



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\*Non-members pay a \$25.00 administrative fee for each requested Certificate of Participation.

https://www.aswm.org/join-aswm



# Today's Presenters



W. Lee Daniels
Virginia Tech



Shawn Chartrand Vanderbilt University



Krystel Bell
Army Corps of
Engineers







Moderator: Marla J. Stelk Association of State Wetland Managers



# Please be Patient While We Switch Presenters...







# **Questions/Discussion**

- W. Lee Daniels
   Virginia Tech
   <u>wdaniels@vt.edu</u>
- Shawn Chartrand
   Vanderbilt University
   <a href="mailto:shawnmichaelchartrand@gmail.com">shawnmichaelchartrand@gmail.com</a>
- Krystel Bell
   U.S. Army Corps of Engineers
   <u>Krystel.L.Bell@usace.army.mil</u>





# Thank you!





