



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.
- 2) 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)
- 4) 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**
Krystal Bell, Regulatory Program Manager, U.S. Army Corps of Engineers (30 minutes)

Questions/Discussion (20 minutes)

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The screenshot shows the ASWM website homepage. A red arrow points from the top right towards the 'ASWM Upcoming Webinars' section. The website features a navigation menu with links for Home, ASWM, I Am, Webinars & Trainings, Publications, Science, Wetland Programs, and Law & Policy. A search bar is located below the navigation menu. The main content area includes a 'WBN' (Wetland Breaking News) section with a 'Sign up for Wetland Breaking News' button, a 'Main Menu' with links to Join/Renew, Contact Us, Wetland Breaking News, Webinars, ASWM Publications, Wetlands One-Stop Mapping, Donate, and Volunteer, and a 'Member's Login' section with fields for Username and Password. The 'ASWM Upcoming Webinars' section lists two 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' and 'Compensatory Mitigation Webinar 7: An Ecological Framework for Compensatory Mitigation: Anticipating the Unexpected - 6/27/19'. The 'EPA Issues Guidance on Clean Water Act Water Quality Certification' section provides information on the EPA's guidance on Section 401 of the Clean Water Act (CWA). The 'Clean Water Act Section 401 Comment Letters Submitted' section mentions that ASWM submitted a comment letter regarding pre-proposal recommendations to the U.S. Environmental Protection Agency. The 'JOIN ASWM' section features a photo of a turtle and a sign-up button for upcoming webinars. The 'ASWM RECENT PUBLICATIONS' section lists 'Healthy Wetlands, Healthy Watersheds: Leveraging State Wetland Restoration'.

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

EPA Issues Guidance on Clean Water Act Water Quality Certification

On Friday, 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 clarify 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 clarify and streamline CWA Section 401 certifications. The guidance as written proposes restrictions on state and tribal authority to condition Section 401 permits.

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

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ASWM RECENT PUBLICATIONS

- Healthy Wetlands, Healthy Watersheds: Leveraging State Wetland Restoration



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



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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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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- A Sense of Pride Knowing That You Have Directly Supported Active Wetland Conservation Efforts Nationwide
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Today's Presenters



W. Lee Daniels
Virginia Tech



Shawn Chartrand
Vanderbilt
University



Krystal Bell
Army Corps of
Engineers



Moderator:
Marla J. Stelk
Association of State Wetland Managers



Please be Patient While We Switch Presenters...





Questions/Discussion

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Thank you!



**US Army Corps
of Engineers.**

