### WALTON FAMILY FOUNDATION





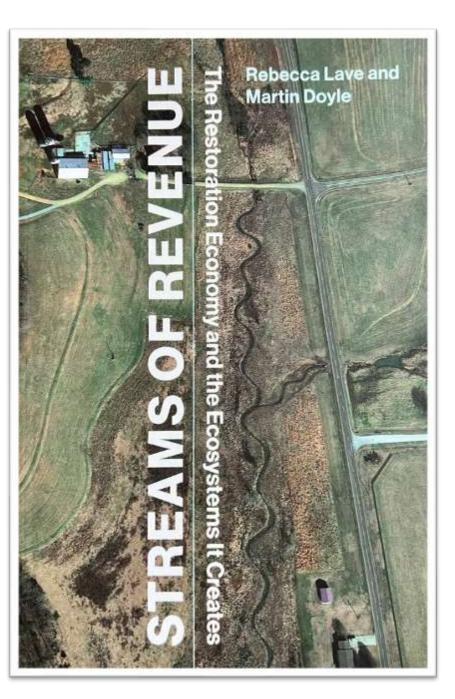
# Permitting Innovation: Challenges and Opportunities for Restoring Dynamic Stream Systems Under §404

August 23, 2023

National Stream Restoration Conference – Baltimore, MD

## Decades of Controversy

- Vocal opposition just getting louder
- Past dialogue: 'right vs wrong', not common interests
- <u>Streams of Revenue</u> the last match thrown at the tinderbox
- Walton Family Foundation & ERBA wanted to change the conversation



## **Roundtable Overview**

- 25 stakeholder from multiple disciplines
  - Academics
  - Mitigation Bankers (includes technical stream experts)
  - In-Lieu Fee Programs
  - NGOs
  - State Government
  - EPA & Army Corps
- Held 2 multi-day in-person meetings and 4 virtual sessions
- Reached consensus on Problem Statement and Proposed Solutions
- Funded by Walton Family Foundation and ERBA
- Facilitated by the Meridian Institute and Moderated by Dr. Jim Salzman of UCLA Law





### Supporting Mitigation Outcomes Problem Stat Solutions

Section 404 of the Clean Wat navigable waters. Administer the 404 program issues perm permits" require appropriate nearby. Under the Section 40 stream conservation, which Is streams with wetlands. In res methodologies have been de

Between November 2022 and Foundation and Ecological Re non-profit organizations, and challenges to and opportunit Section 404 of the Clean Wat Problem Statement that artic mitigation program's operati

This consensus document is i and propose a range of poter Army Corps of Engineers and Statement and Recommende mitigation program will requi mitigation bankers, state and and others.

The following Problem Stater participants. The participants but do not necessarily have o members participated to info

#### Participants

#### PROBLEM STATEMENT CONSENSUS PARTICIPANTS

The following individuals participated in the 404 Stream Mitigation Roundtable process and reache consensus on the Problem Statement and Recommended Solutions.

#### Jeannette Blank

Project Manager Montana Stream and Westland In-Lieu Fee Mitigation Program Montana Freshwater Partners

#### **Brad Breslow**

Senior Project Manager Davey Mitigation

#### Adam Davis Managing Partner Ecosystem Investment Services

Martin Doyle Professor, Nicholas School for the Environment Duke University

#### Matthew Gause Director, Ecological Resources and Land Stewardship Westervelt Ecological Services

Brian Graber American Rivers

Sara Johnson Executive Director Ecological Restoration Business Association

Greg Kernohan Conservation Director, Ecosystem Services Ducks Unlimited

Rebecca Lave Professor, Department of Geography Indiana University President, American Association of Geographers Tim Male Executive Director Environmental Policy Innovation Center

Adam Riggsbee President RiverBank Conservation

Eileen Shader American Rivers

Bob Siegfried Senior Project Manager Resource Environmental Solutions, LLC

Amy Singler American Rivers

Peter Skidmore Senior Program Officer Walton Family Foundation

Jeremy Sueltenfuss Assistant Professor, Department of Forest Rangeland Stewardship Colorado State University

Greg Sutter General Manager, Emeritus Westervelt Ecological Services

David Urban Managing Director Ecosystem Investment Partners

#### FEDERAL AND STATE AGENCY PARTICIPANTS

The following Federal and State agency members participated in the 404 Stream Mitigation Roundtable to inform deliberations. They have not signed off on the documents from the consensus process; these findings and recommendations are being delivered by non-agency participants.

#### **Tom Cavanaugh**

Regulatory Program Manager US Army Corps of Engineers

#### **Gordon Grant**

Research Hydrologist, USDA Forest Service, PNW Research Station Courtesy Professor, OSU College of Earth Ocean and Atmospheric Sciences

#### Joe Morgan

Life Scientist, Water Division - Wetlands Section Environmental Protection Agency, Region 9

David Olson Regulatory Program Manager US Army Corps of Engineers

#### FINANCIAL AND TECHNICAL SUPPORT

This consensus building process was financially supported by the Walton Family Foundation and Ecological Restoration Business Alliance. Facilitation and other support was provided by Meridian Institute, including the following individuals:

Carly Campana Project Associate and Ruckelshaus Fellow Meridian Institute

Robyn Paulekas Senior Mediator and Program Manager Meridian Institute

James Salzman Bren Distinguished Professor of Law UCLA Law School UCSB Bren School of Environmental Science & Management

#### Jim Stanfill

Deputy Director, Division of Mitigation Services North Carolina Department of Environmental Quality

#### **Brian Topping**

Environmental Protection Specialist, Office of Wetlands, Oceans and Watersheds US Environmental Protection Agency

#### Sarah Woodford

Mitigation Specialist Virginia Department of Environmental Quality

## **Consensus Problem Statement**

- Finding 1 Full range of stream restoration approaches not being used in 404 program
- Finding 2 current emphasis on channel form and stability for mitigation review process creates barriers to proposing alternative approaches
- Finding 3 Current planning, monitoring and evaluation overemphasize metrics tied to channel form and stability instead of a suite of physical, biological, and chemical processes which support ecological outcomes
- Finding 4 Current mitigation training resources do not cover a broad range of stream restoration approaches
- Finding 5 Existing policy mechanisms allowing flexibility to apply a range of restoration approaches are underutilized



# **Consensus Proposed Solutions**

### • <u>A. Learning and Training</u>

- Build greater IRT awareness of alternative restoration approaches
- Develop training programs and resources

### • <u>B. Measuring, Permitting, and Crediting</u>

- Ensure direct measurement of ecological processes
- Use ecological process performance on credit releases
- Prioritize restoration of ecological processes
- Incentivize a watershed approach

### • <u>C. Regional and Watershed Approaches</u>

- Provide watershed approach guidance with permit writers
- Support watershed plan development



# **Consensus Proposed Solutions Con't**

- <u>D. Joint Guidance and/or Regulatory Guidance Letters</u>
  - Direct districts to develop policies and procedures for permitting alternative approaches for stream mitigation
  - Incentivize early and durable achievement of ecological performance standards through credit release schedules
  - Clarify the watershed approach, the bounds of in-kind mitigation considerations, the flexibility of the watershed approach, and how it can be applied to support alternative approaches to stream mitigation





