

Coal River Watershed Planning Study Kanawha County, West Virginia







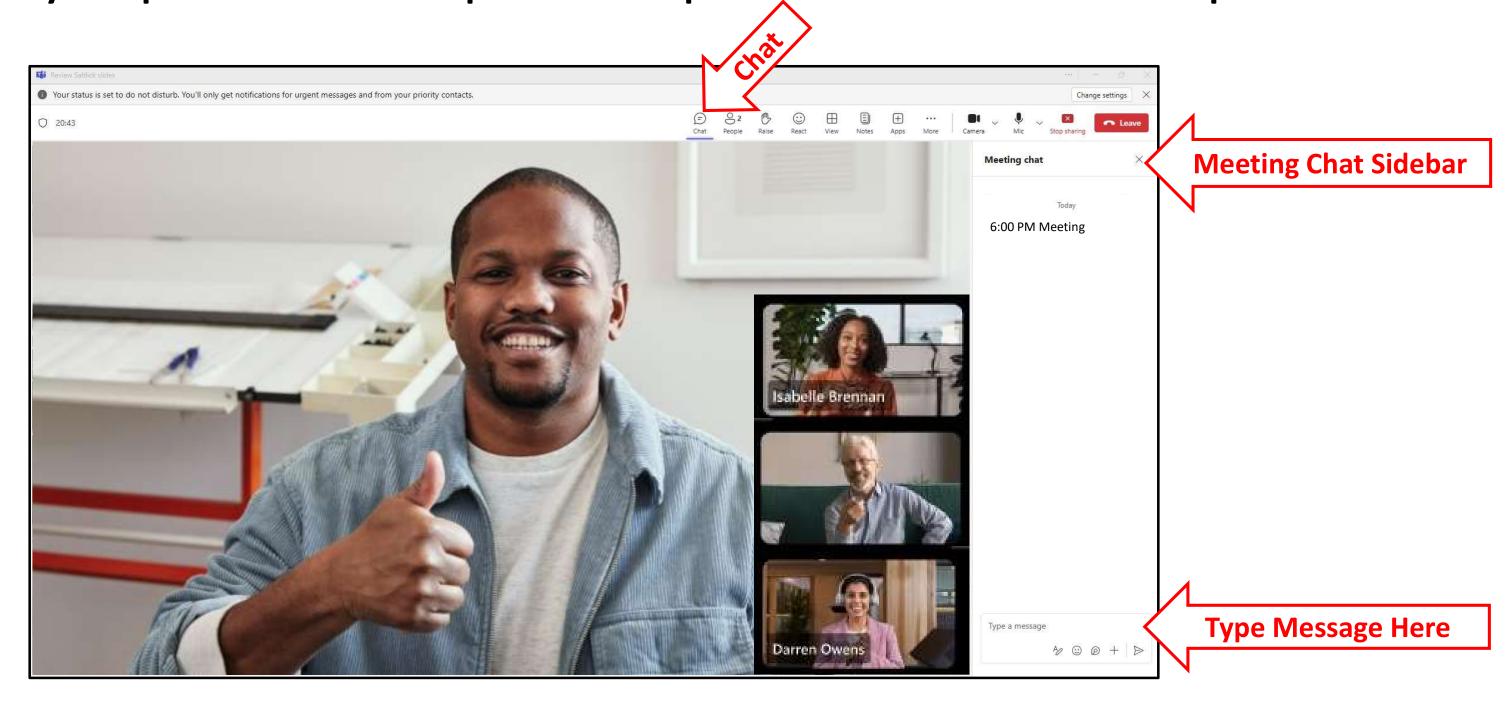




Public Scoping Meeting July 21, 2025

How to Submit a Question During This Meeting

Submit your question and comments in the "Meeting Chat" sidebar. We will read your question aloud and provide a response at the conclusion of this presentation.



Meeting Agenda

- Welcome and Introductions
- Project Overview
- > NRCS Watershed Planning Process
- > History of the Coal River
- > Examples of Similar Projects
- > Project Schedule
- > Open Discussion



Key Players in Planning Process

Local Sponsors:

Capitol Conservation District (CCD)

Mr. Terry W. Hudson, Chairperson

Technical Support:

USDA, Natural Resources Conservation Service (NRCS)

- Jon Bourdon, State Conservationist, NRCS West Virginia
- Hannah Thacker, NRCS West Virginia
- Titus Smith, NRCS West Virginia

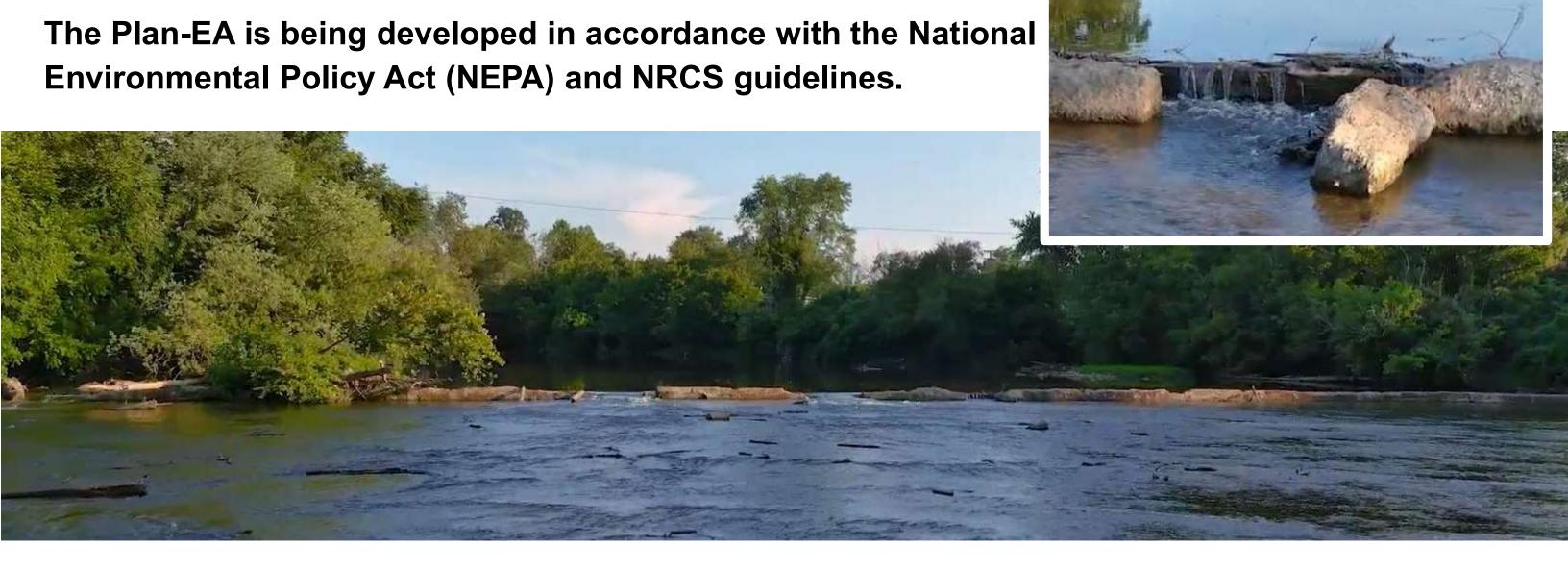
Technical Contractor:

Gannett Fleming

- Eric Neast, Project Manager
- Kate Sharpe, Deputy Project Manager and NEPA Lead/Economist

What is the Project

The Capitol Conservation District and the NRCS are evaluating alternatives for the future of the Coal River Lock and Dam #3. These may include public safety improvements, public recreation enhancements, improved fish and wildlife habitat, and improved water quality.



NRCS Watershed Planning Process

- Identify problems and opportunities
- Determine objectives
- Inventory and analyze resource data
- ❖ Formulate alternatives
- Evaluate and compare alternatives
- Select preferred alternative and submit funding request
- Implement and evaluate the plan



Watershed Planning and NEPA

National Environmental Policy Act (NEPA)

- Section 106 of the National Historic Preservation Act
- Endangered Species Act
- Clean Water Act
- Clean Air Act

- Floodplain Management Executive Order
- and more...

What is Scoping?

The scoping process is used to identify:

- ✓ Concerns of watershed stakeholders
- ✓ Input from regulatory agencies
- ✓ Environmental resource issues
- ✓ Potential alternatives to be studied
- ✓ Relevant laws and regulations

Scope

The range of actions, alternatives, and impacts considered.

Scoping: Identify Resource Concerns

Natural Environment

- Wetlands and water resources
- Soils and geology
- Fish & wildlife resources and habitat
- Ecologically critical areas
- Threatened & endangered species
- Floodplain management
- Forest resources
- Invasive species
- Riparian areas
- Wild & scenic rivers



Scoping: Identify Resource Concerns

Human Environment

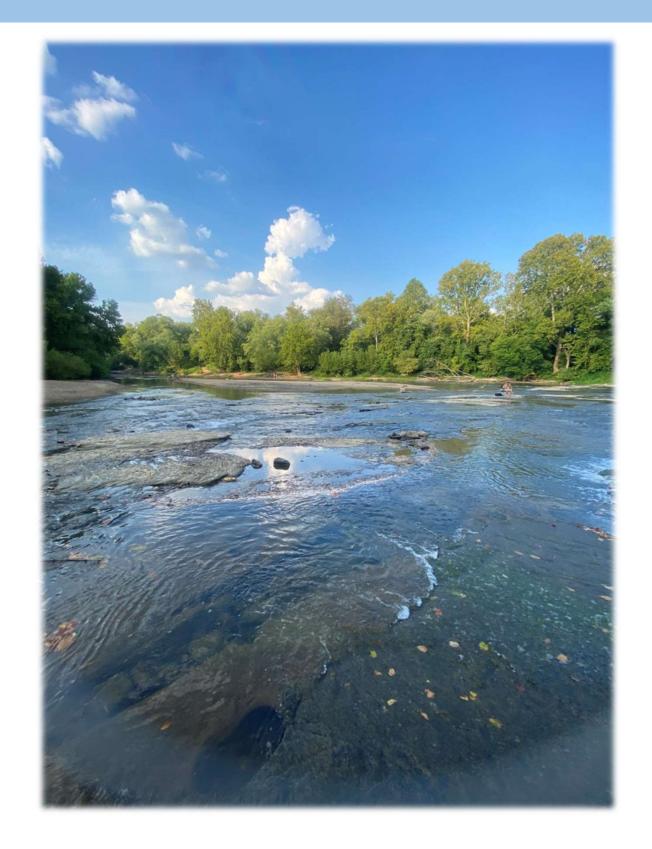
- Public health & safety
- Land use & planning
- Prime farmlands
- Scenic areas
- Water quality
- Recreation and park lands
- Economic efficiency
- Air quality
- Cultural & historic properties
- Hazardous wastes and materials



Purpose and Need

NRCS Authorized Project Purposes

- 1. Flood Prevention (Flood Damage Reduction)
- 2. Watershed Protection
- 3. Public Recreation
- 4. Public Fish and Wildlife
- 5. Agricultural Water Management
- Municipal and Industrial Water supply
- 7. Water Quality Management

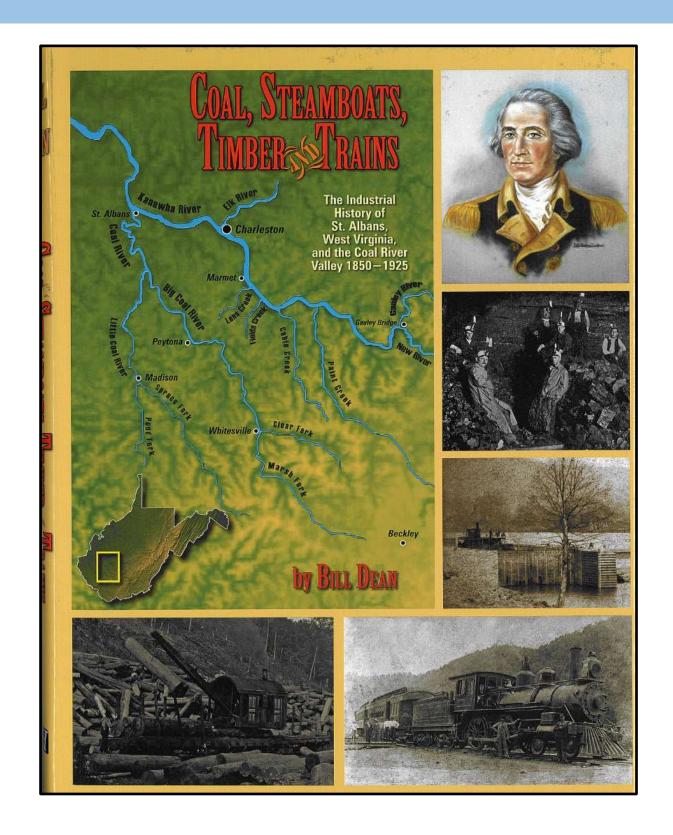


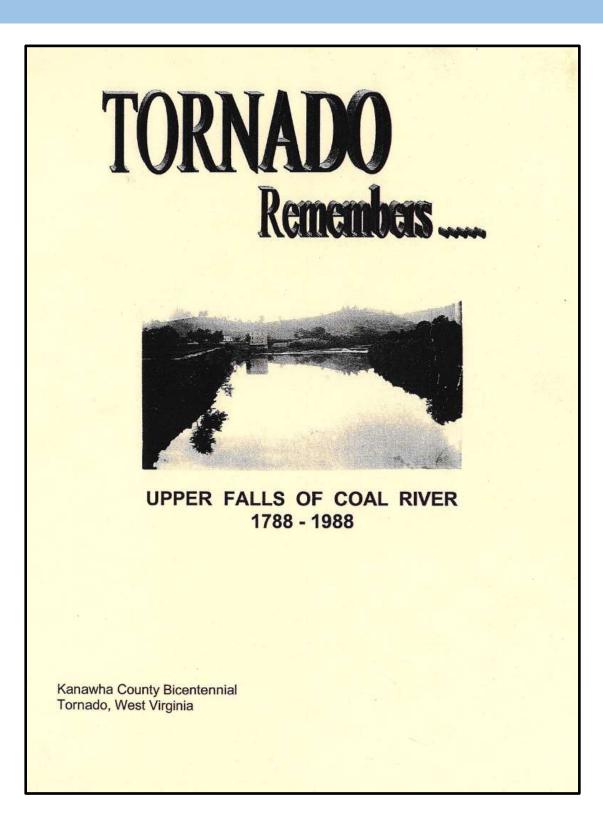
Required Alternatives

- ➤ No Action/Future Without Federal Investment
- **➤ Non-Structural Alternatives**
- >Structural Alternatives
 - Modify the structure
 - Dam Removal
- **≻Other Alternatives**
 - Locally Preferred
 - Environmentally or Socially Preferred

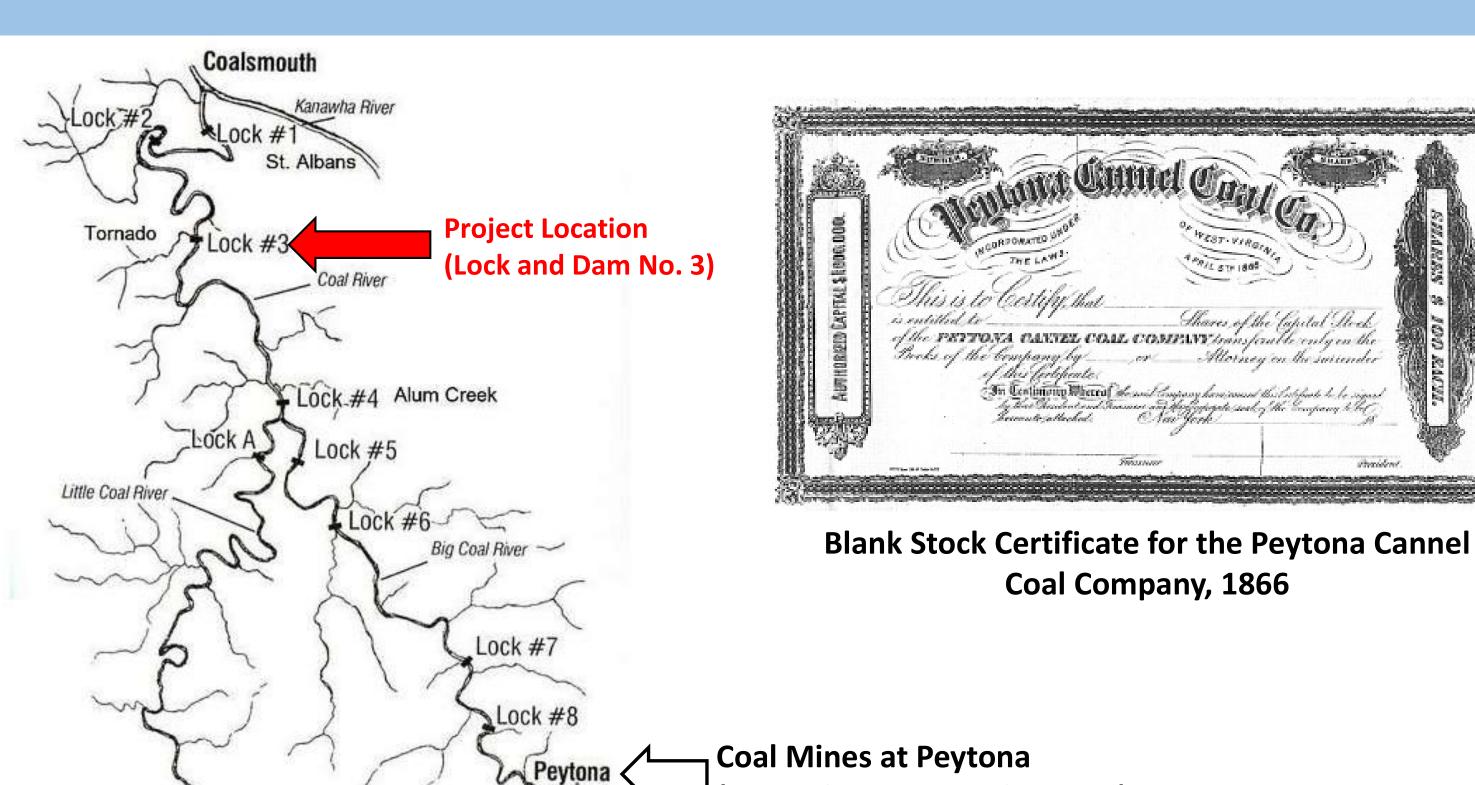


History of the Coal River Watershed



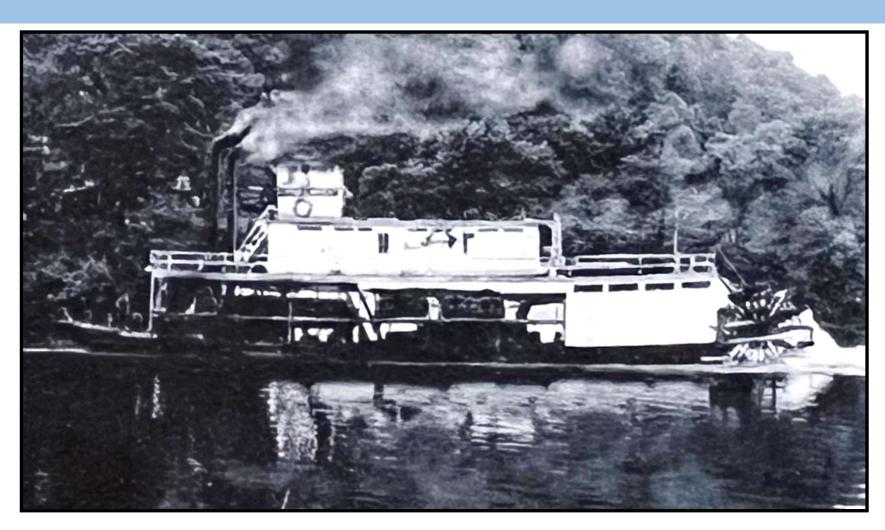


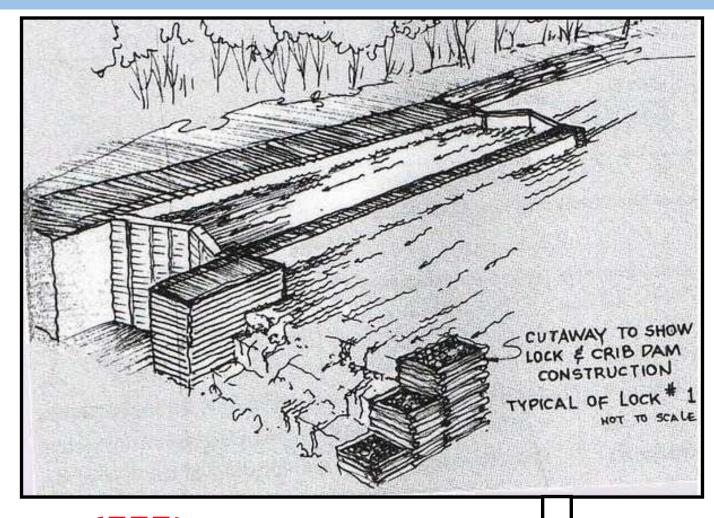
Coal River Watershed

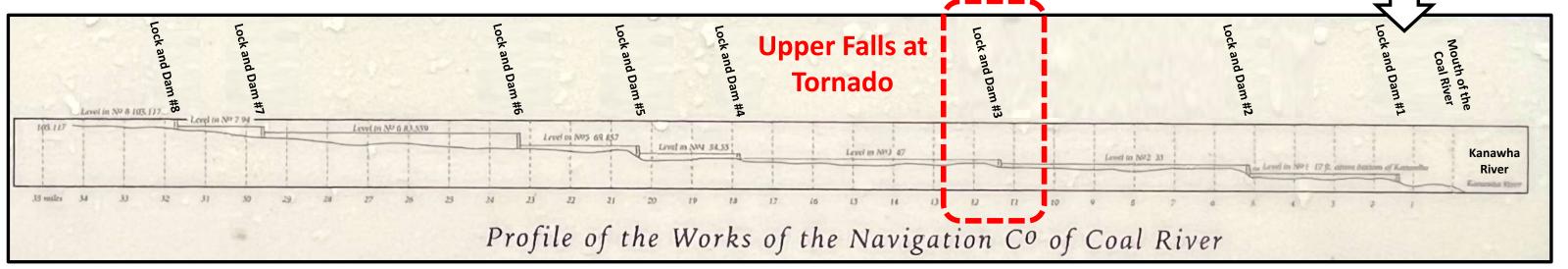


(50± Miles to Kanawha River)

Coal River Lock and Dam System



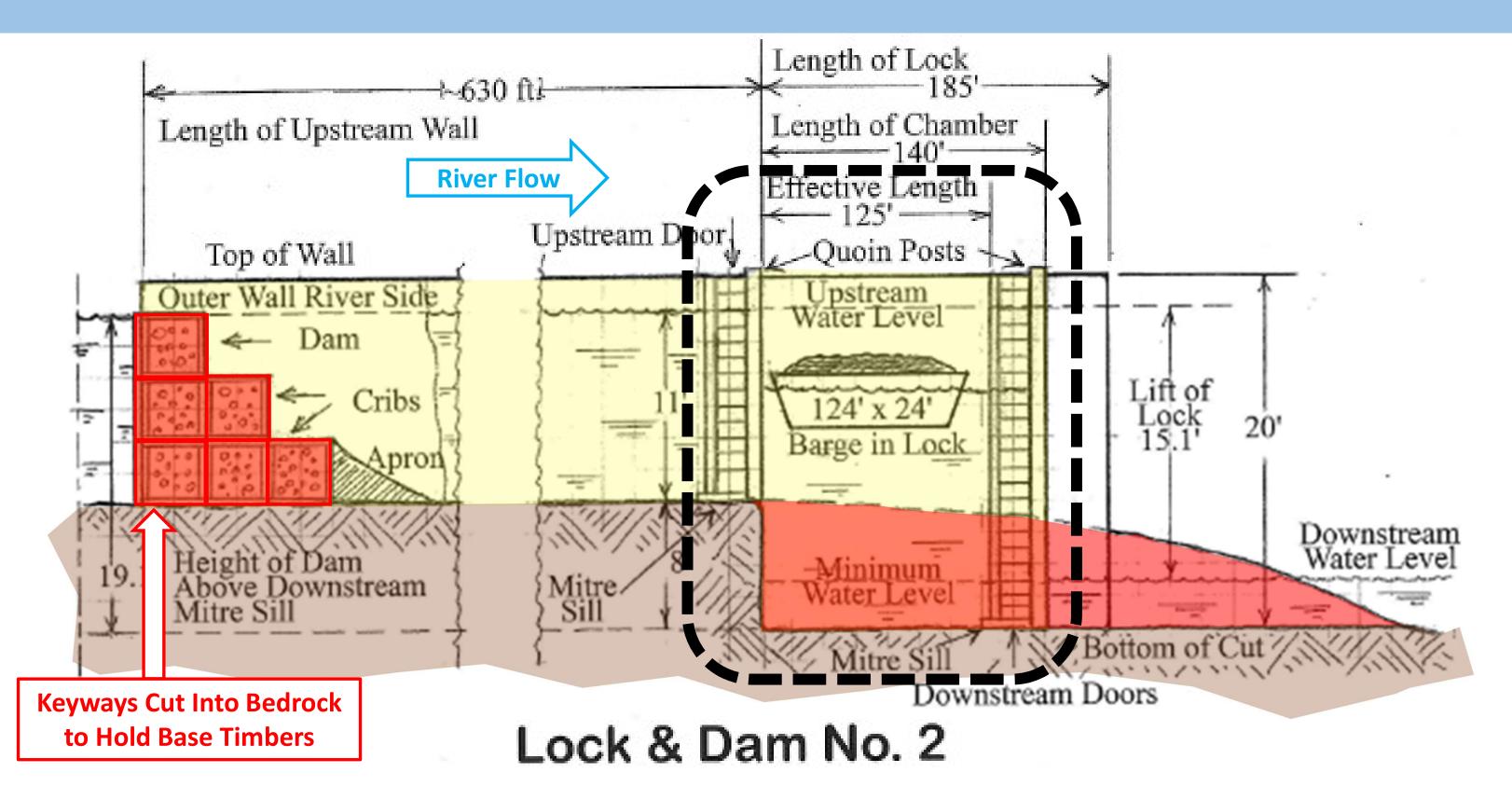




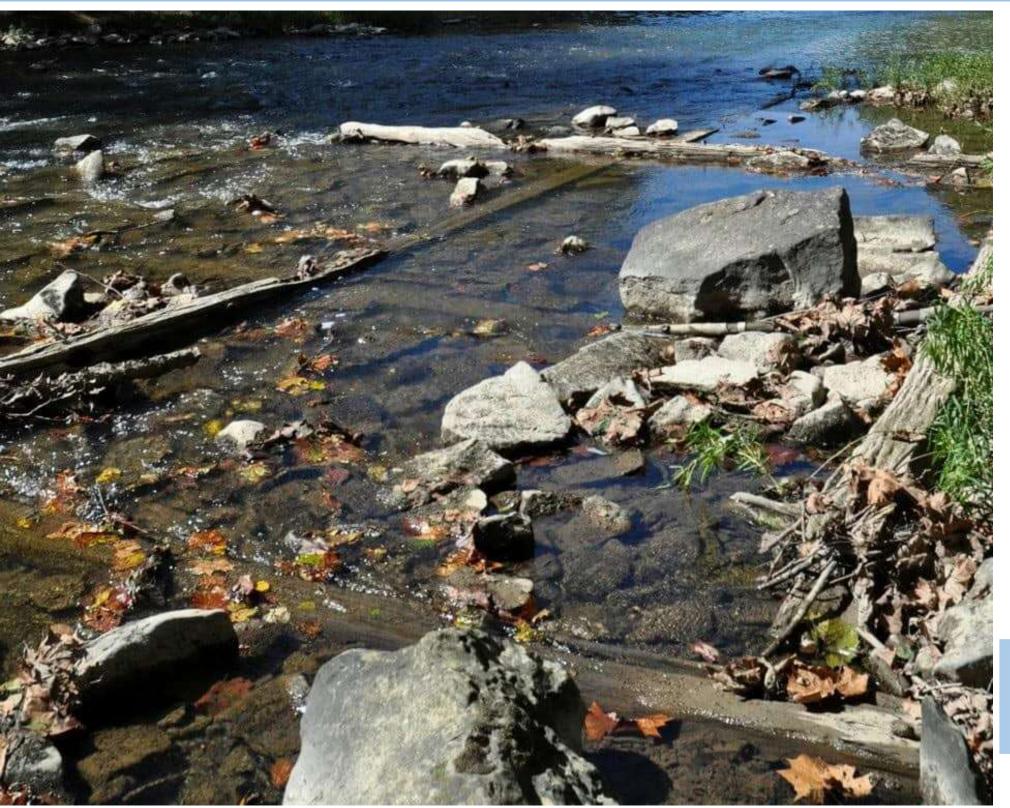
Coal River Lock and Dam No. 1 Near St. Albans



Coal River Lock and Dam No. 2



Coal River Lock and Dam No. 8





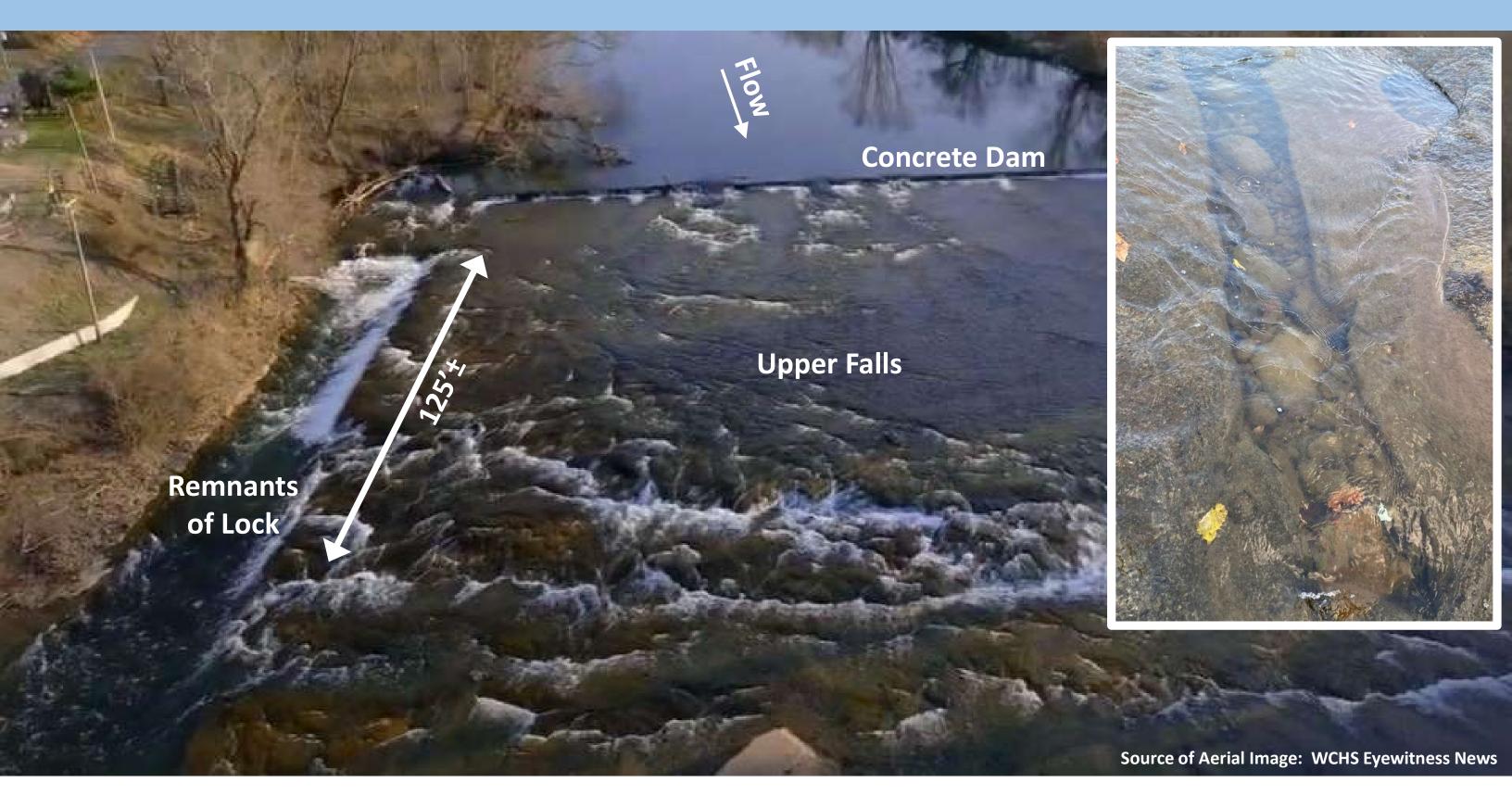
Base Timber Set in Keyway
Cut into Bedrock

Remnants of Timber Crib
Foundation at Lock and Dam No. 8

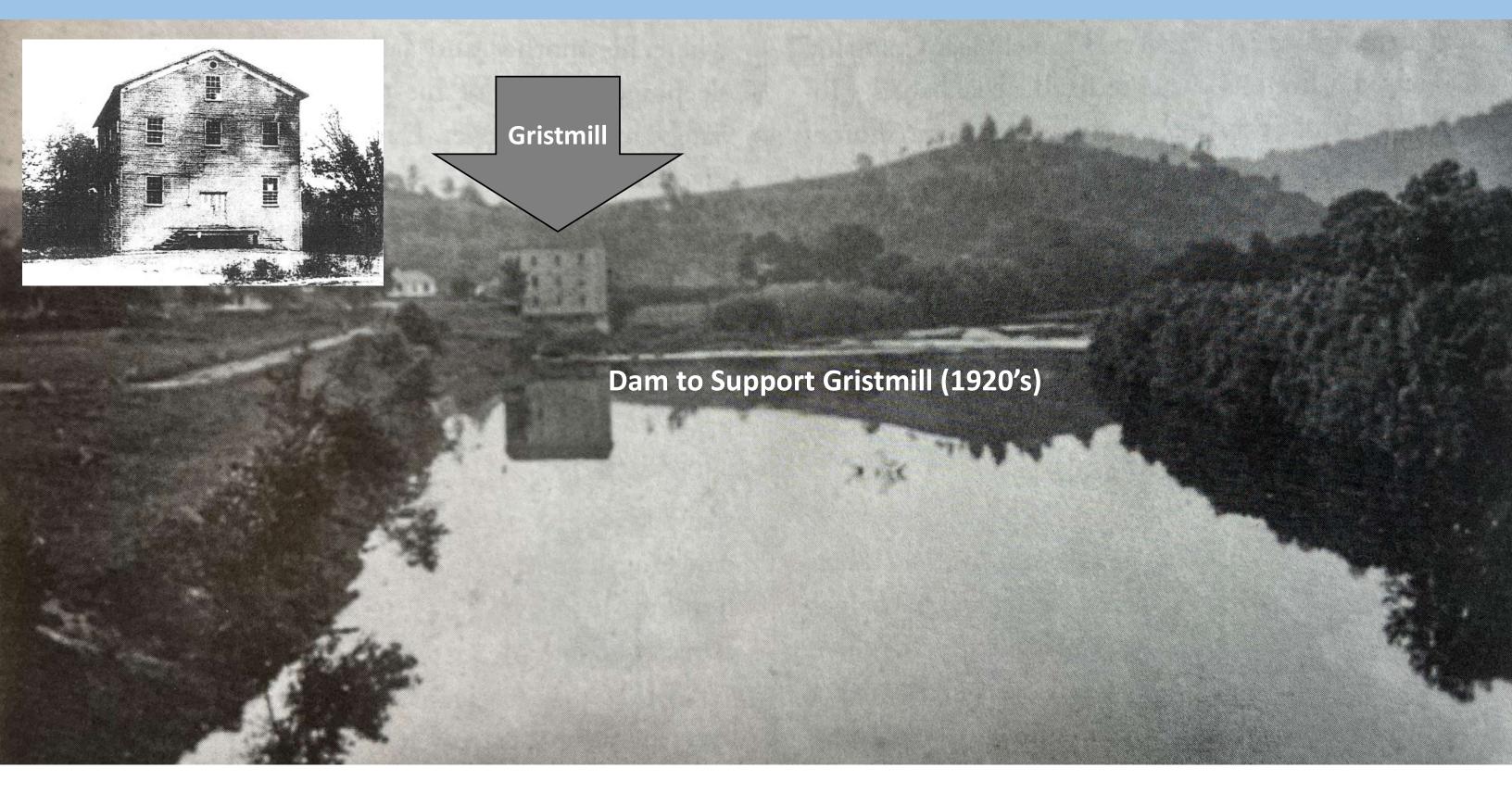
Example of Timber Crib Dam



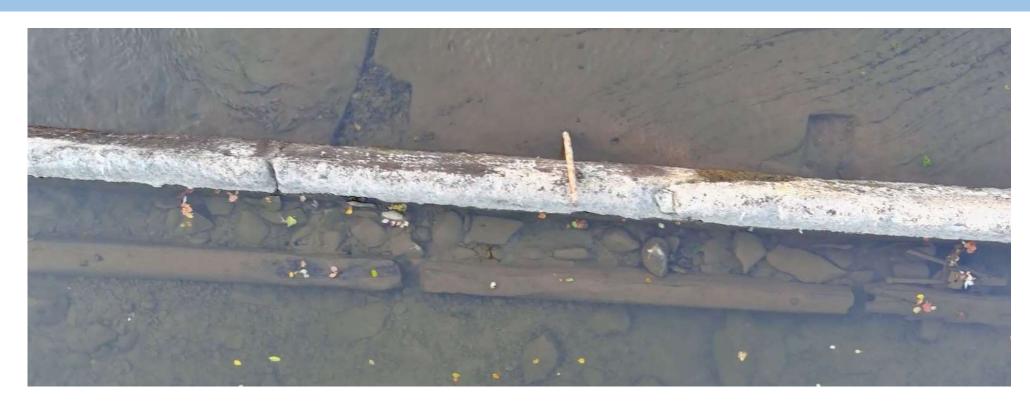
Coal River Lock and Dam No. 3 at Tornado

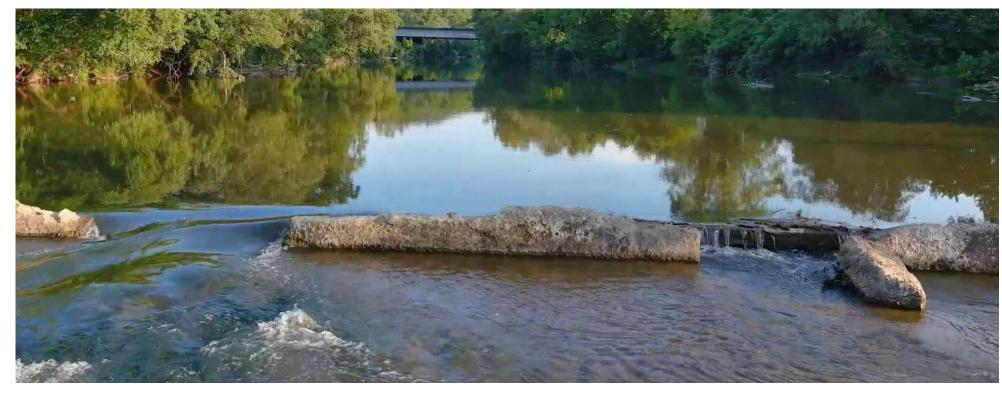


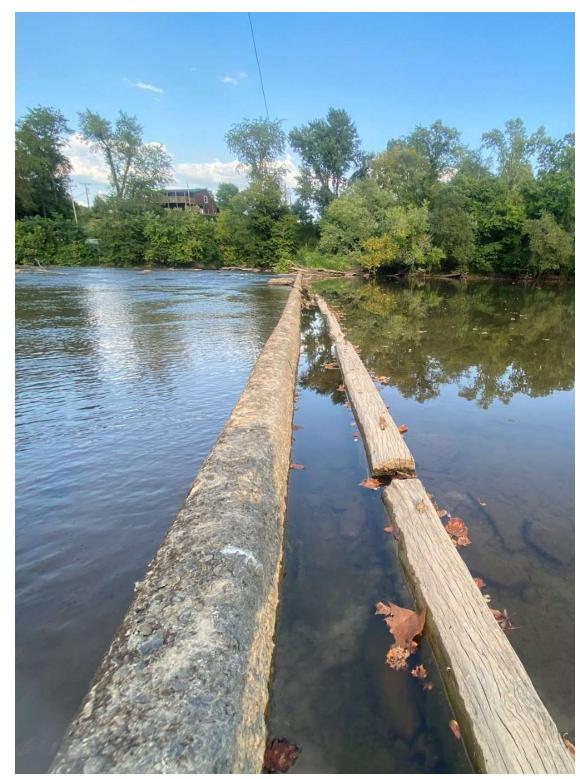
Coal River 1920's Dam To Support Gristmill



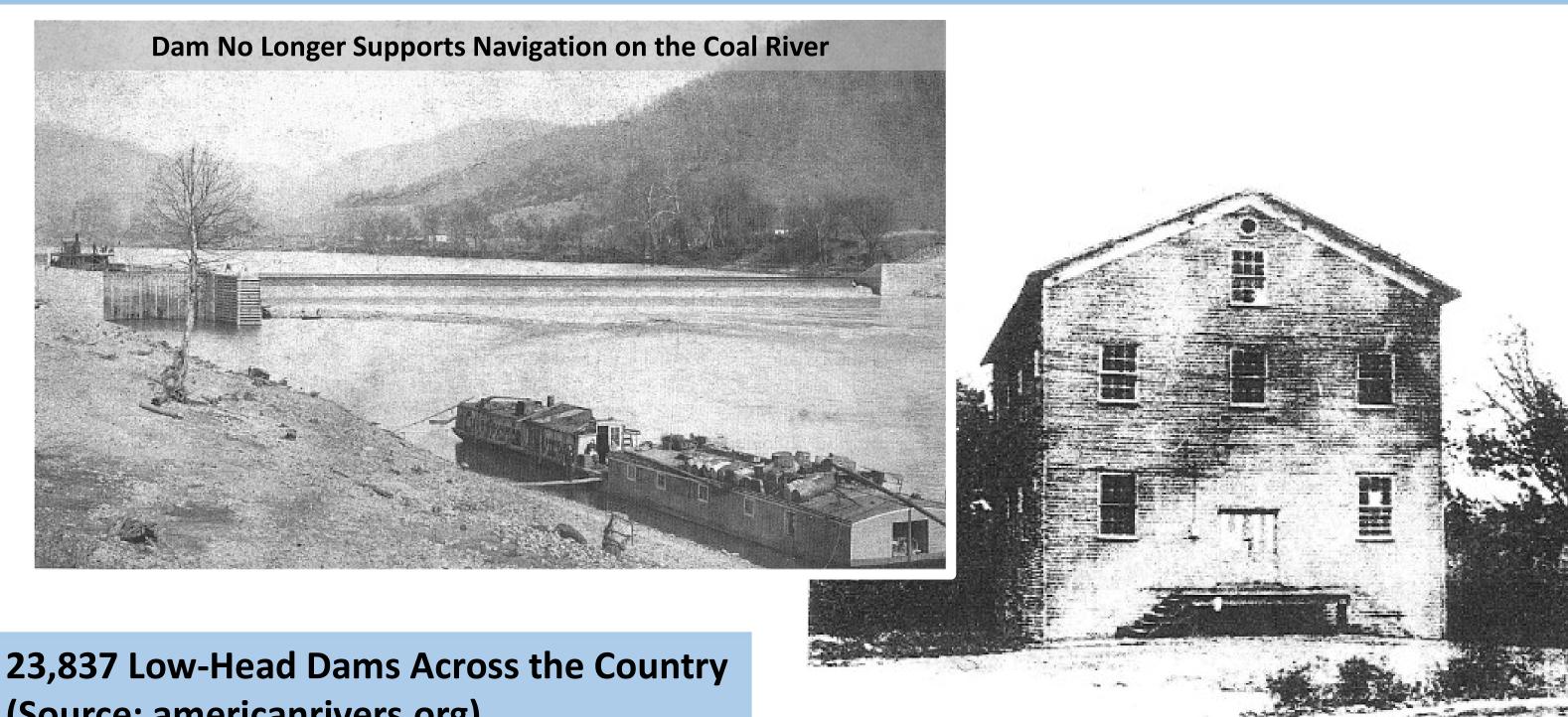
Coal River 1920's Dam To Support Gristmill







Dam Has Outlived Its Intended Purpose



Dam No Longer Supports Gristmill

(Source: americanrivers.org)

Cultural Resources



DIVISION OF CULTURE & HISTORY The Cultural Center 1900 Kanawha Blvd., E. Charleston, WV 25305-0300

Phone 304.558.0220 Fax 304.558.2779 TDD 304.558.3562 www.wvculture.org January 21, 2009

Mr. William E. Simmons, Jr. Deputy Director WV DEP 601 57th Street, SE Charleston, WV 25304

RE: Coal River (Upper Falls) Dam Removal

FR#: 08-771-KA-1

Dear Mr. Simmons:

We have reviewed the additional information for the above referenced project to determine its effects to cultural resources. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

Architectural Resources:

Thank you for providing the additional information. It is our understanding that as a result of a site visit by your staff in September 2008 it is has been determined that the 1962 replacement dam was constructed at the site of the original dam which is as a part of the old Coal River lock system and listed in the National Register of Historic Places.

According to the information submitted we understand that remnants of a wooden crib have been discovered and may be a part of the original dam. Please provide photographs of the wooden crib and state if it will be removed as a part of the project. We reserve the right to request the completion of a West Virginia Historic Property Inventory form and additional information based upon our review of the photographs.

As stated in our letter dated August 4, 3008 that when they are ready, please provide a copy of the final plans. This originally was in reference to the placement of the demolition rubble. However, with the discovery of the wooden crib this information will need to be included on the plans as well.

We will continue our review upon receipt of the information requested.

We appreciate the opportunity to be of service. If you have questions regarding our comments or the Section 106 process, please contact Ginger Williford, Structural Historian, in the Historic Preservation Office at (304) 558-0249.

Susan Inturce

Susan M. Pierce,

Deputy State Historic Preservation Officer

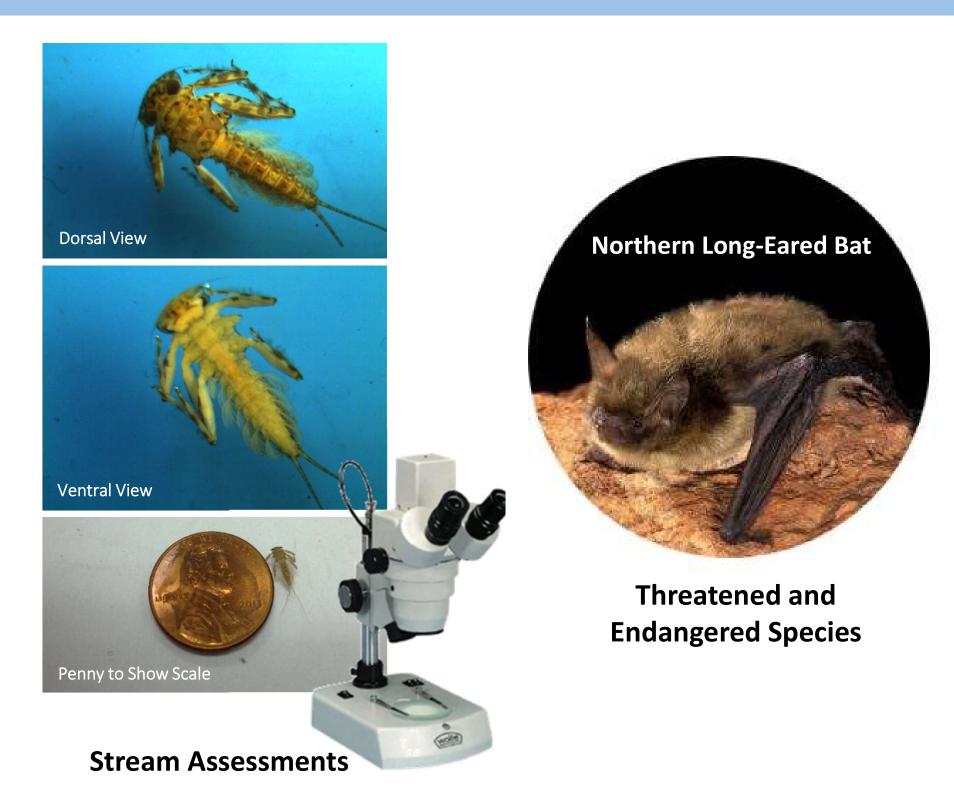
SMP/GW



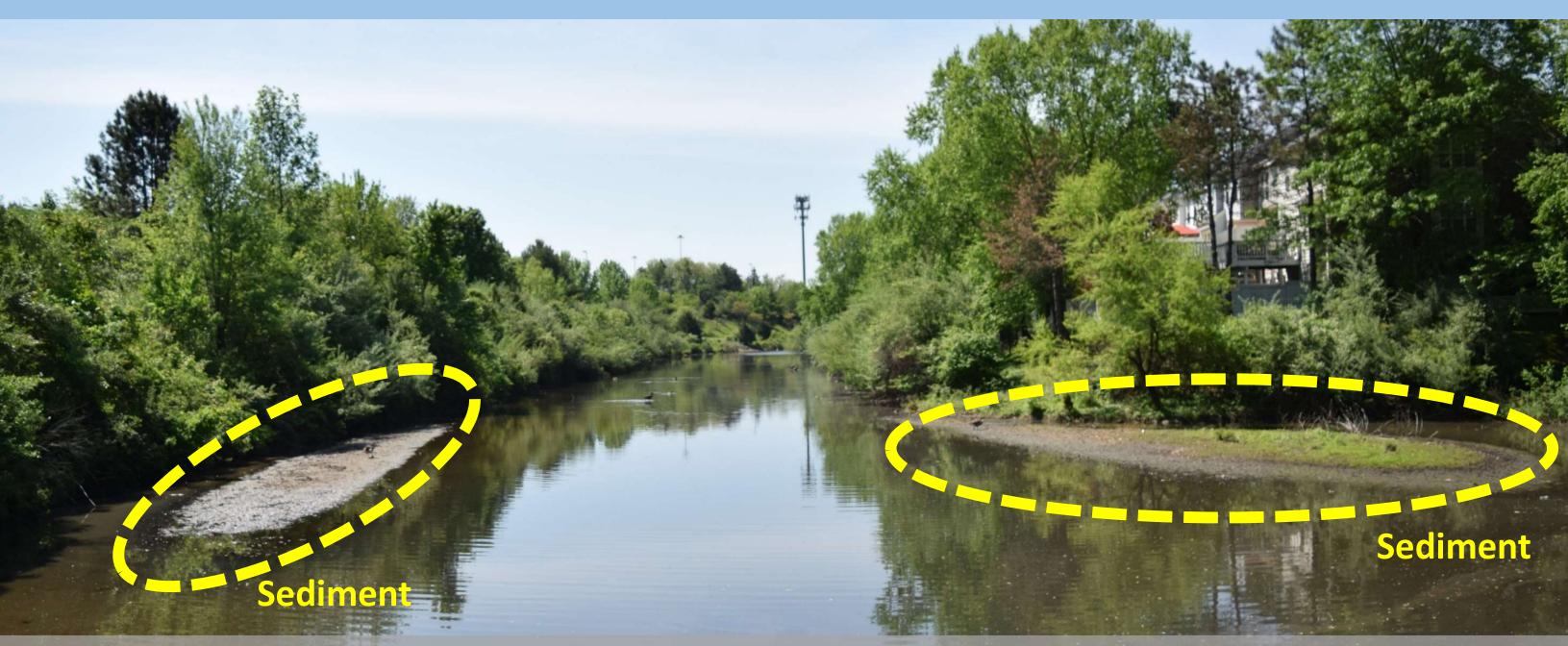
Environmental Investigations







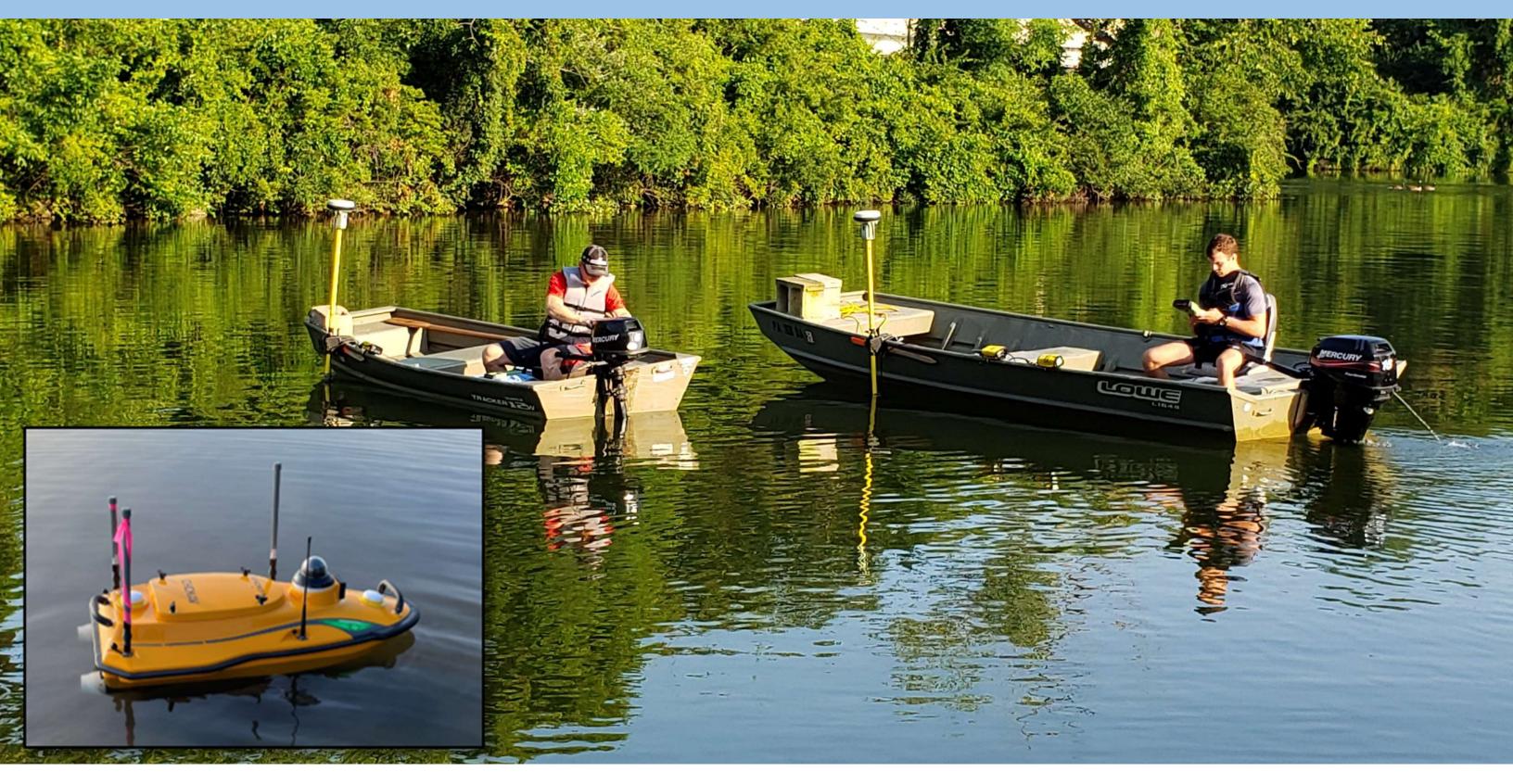
Sedimentation



Sediment accumulation decreases water depths which can:

- Increase water temperature
- Increase potential for algae outbreaks
- Decrease oxygen levels
- Increase potential for methane generation

Bathymetric Survey



Impacts to Migratory and Local Fish



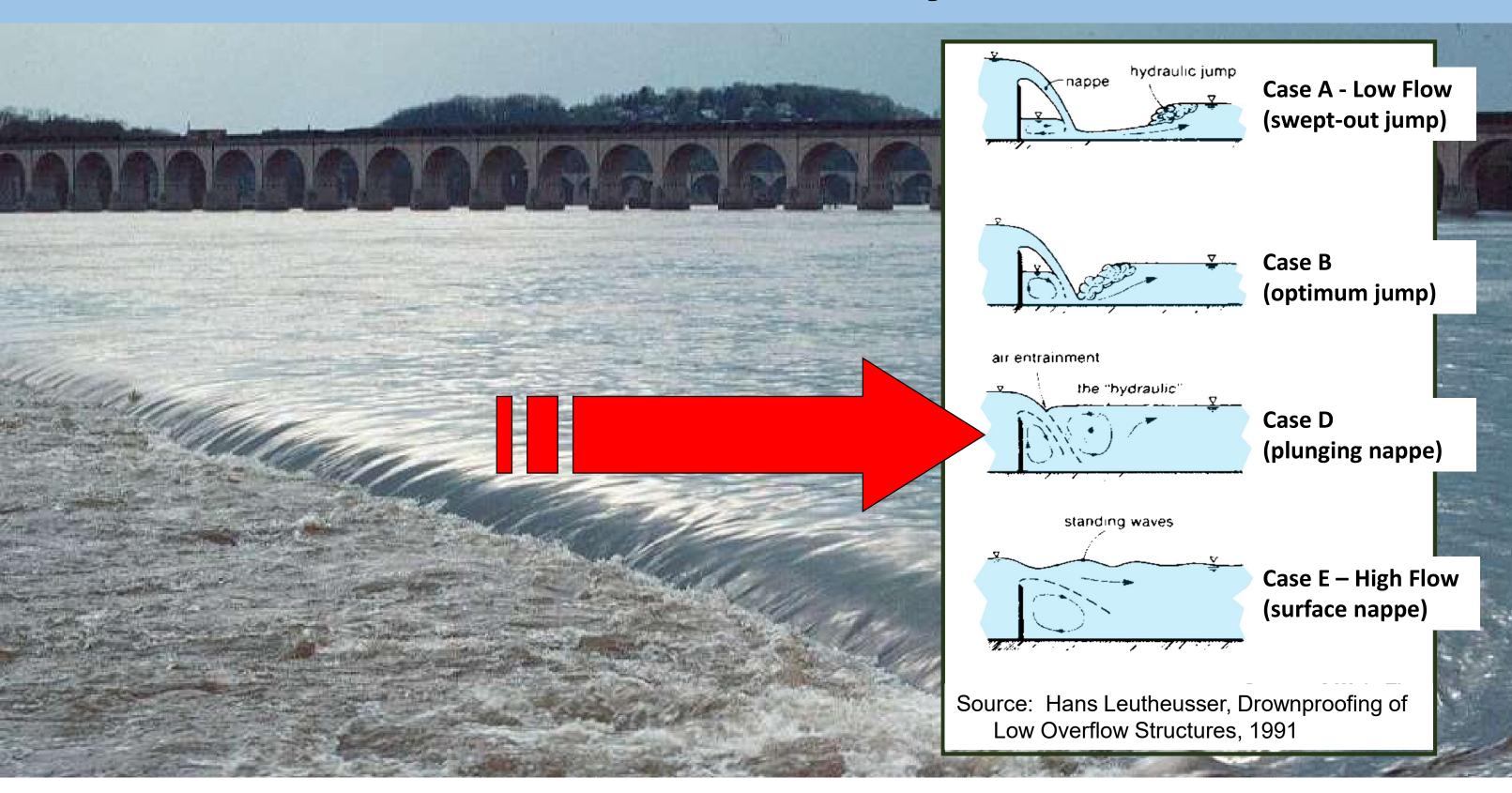
Coal River Wildlife



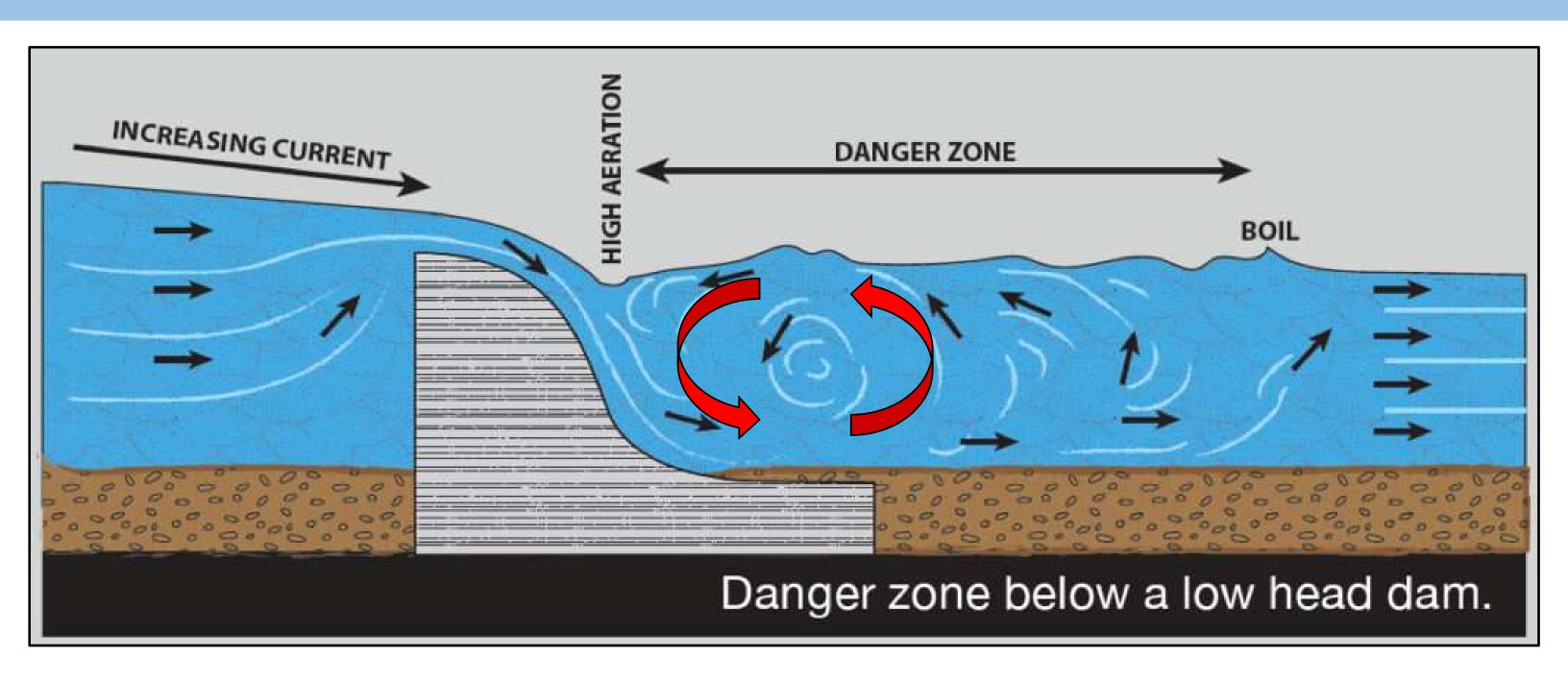
Recreation



Public Safety

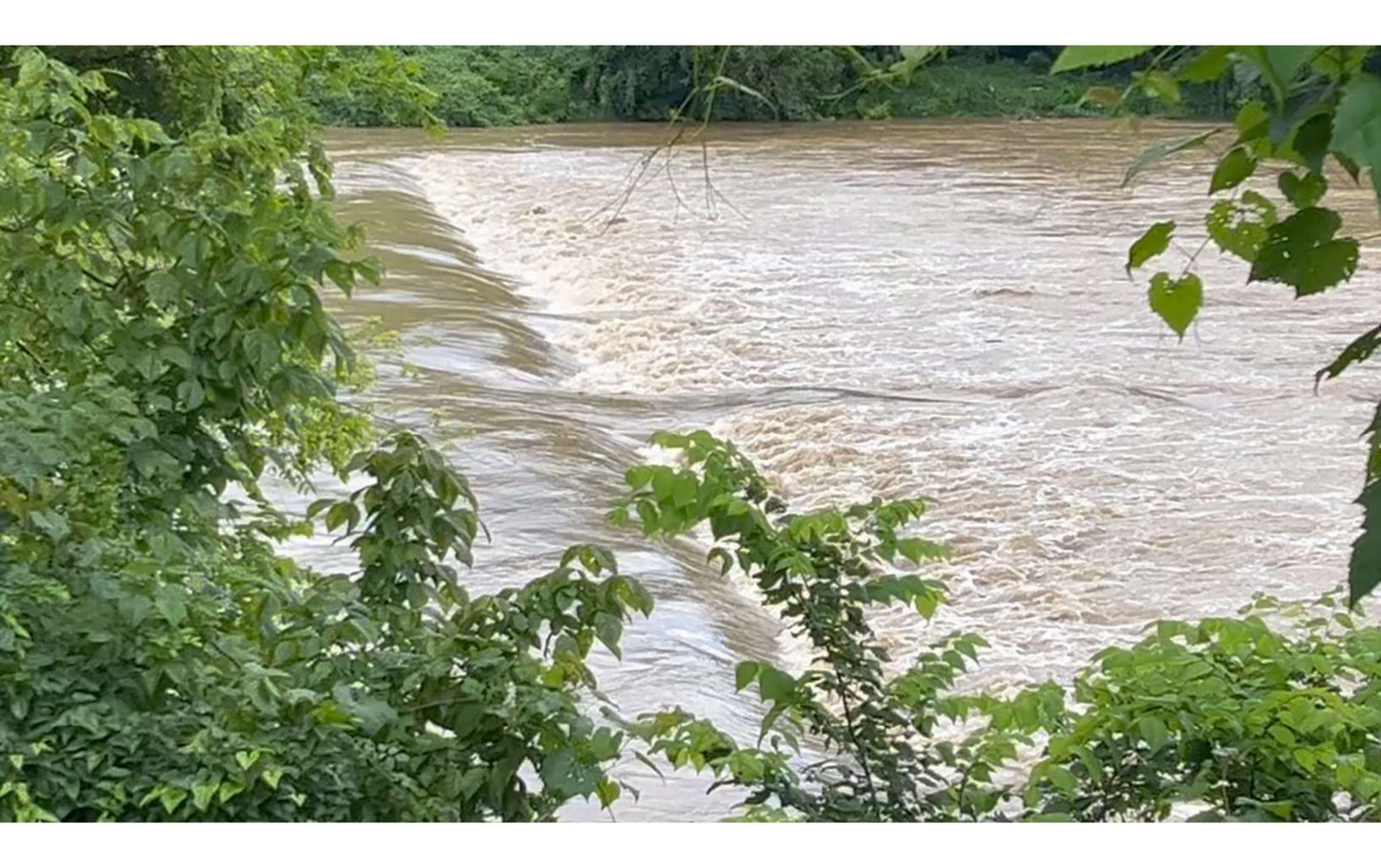


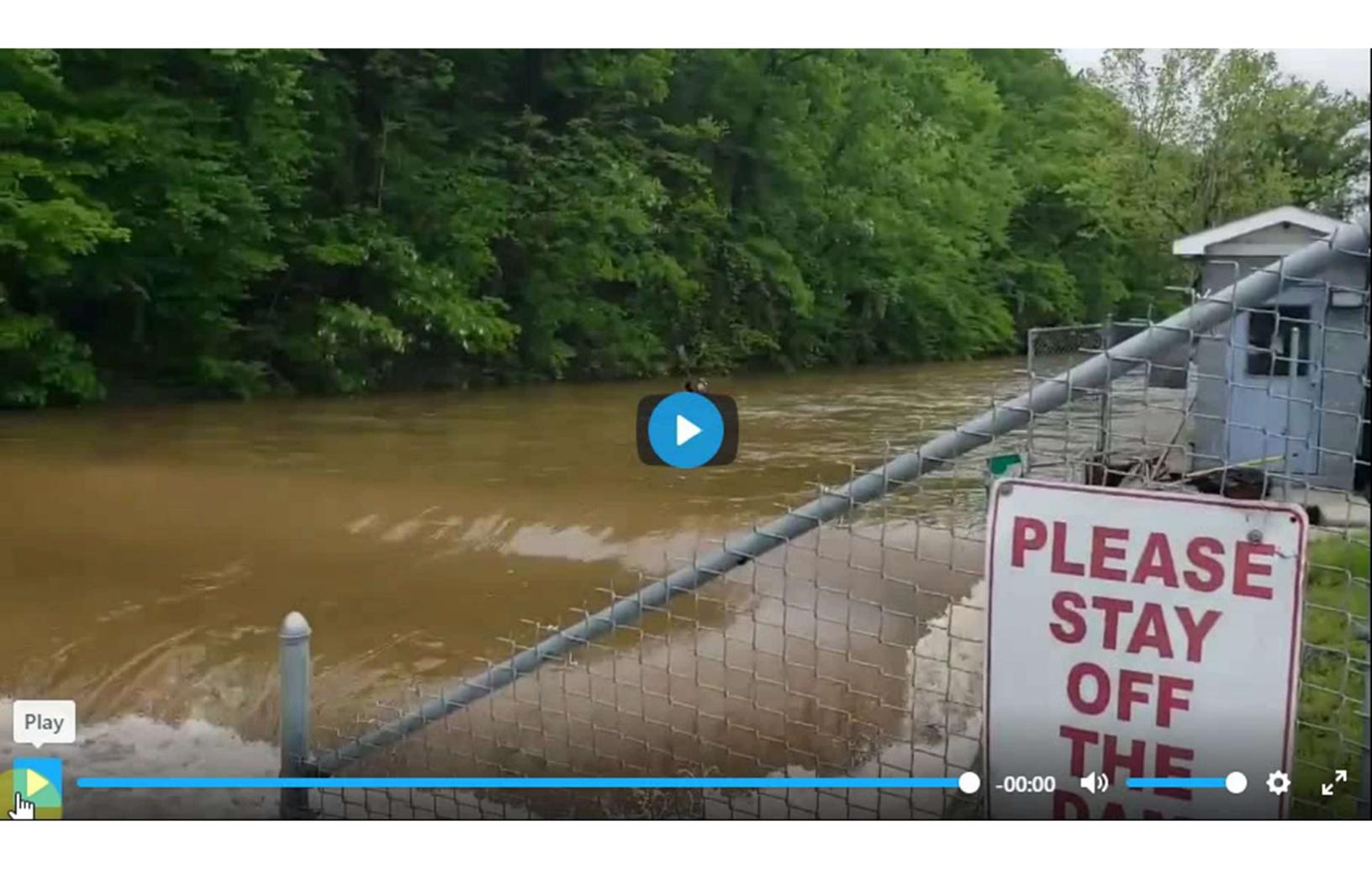
Public Safety



- Recirculating Current
- Reduced Buoyancy Due to Increased Air Content in Water

Source: americanrivers.org



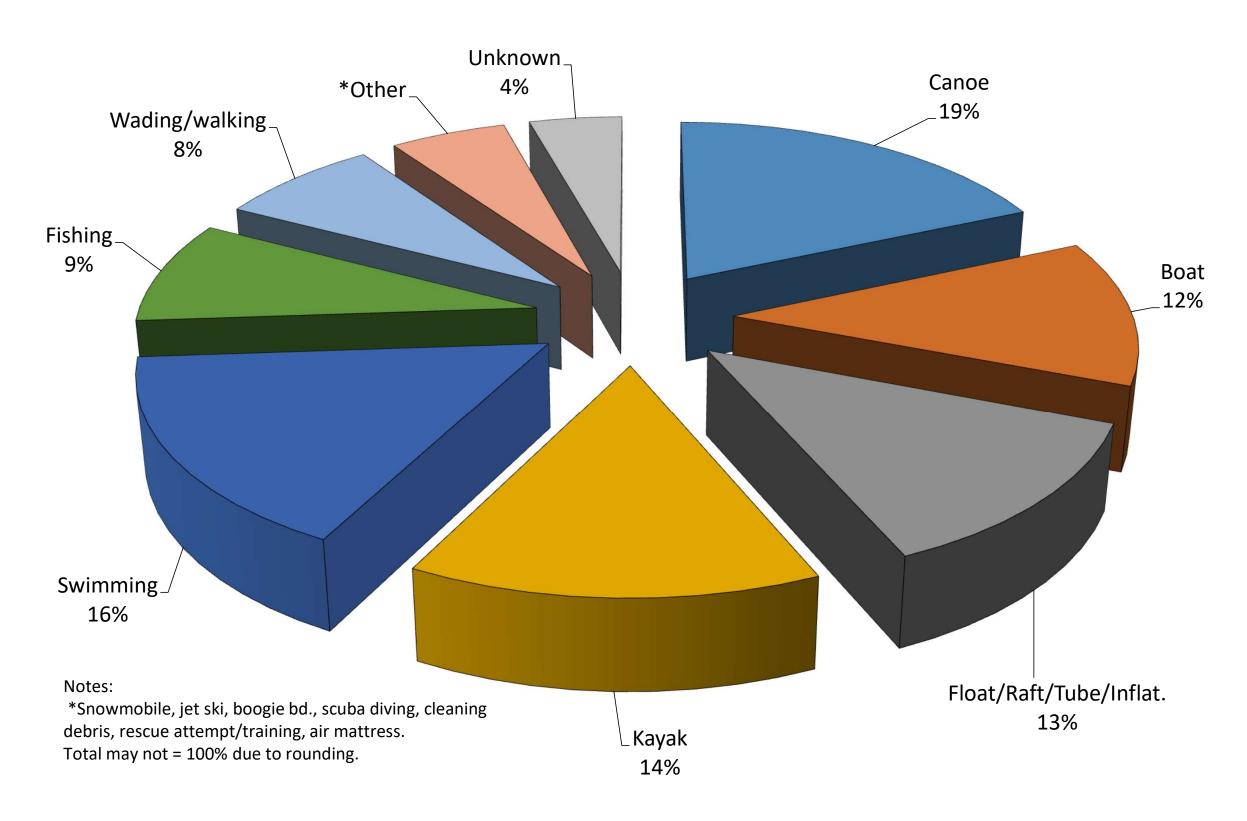






Known drowning activities: 264 of 276 fatalities

(1960s - August 2013)



Public Safety

Documented Fatalities at the Upper Falls on the Coal River

Jennings Crawford, 16, Tornado WV, June 1, 1919
Earl Roberts 13, Tornado WV, June 1, 1919
Myrtle Norvell, 32, St Albans WV, July2, 1933
Abbie Anderson Gessel 28, St Albans WV July 2, 1933
Margaret Gilliam, 29, Lytle TX, July 26, 1936
Egbert Shirkey Jr, 21, Charleston WV May 28, 1939
James M. Robinson, 15, Charleston WV May 28, 1939
Carl Edward Pickens Jr, 13, Bancroft WV June 1, 1950
Barbara Vineyard, 20, Charleston WV July 26, 1951
Jean Marie Jones, 15, Charleston WV August 13, 1956
Michael Hinzman, 14, St Albans WV August 13, 1959
Sebert Allen Harless, 16, St Albans WV July 2, 1961
Henry Edward Ennis, 44, St Albans WV July 2, 1967

Tony Milbee, 12, St Albans WV May 30, 1969

Bobby J Martin II, 11, Charleston WV June 14, 1969

Jerry Thomas Pomeroy, 16, Charleston WV June 30, 1971

Joey Meadows, 37, Cleveland OH, June 14, 2007

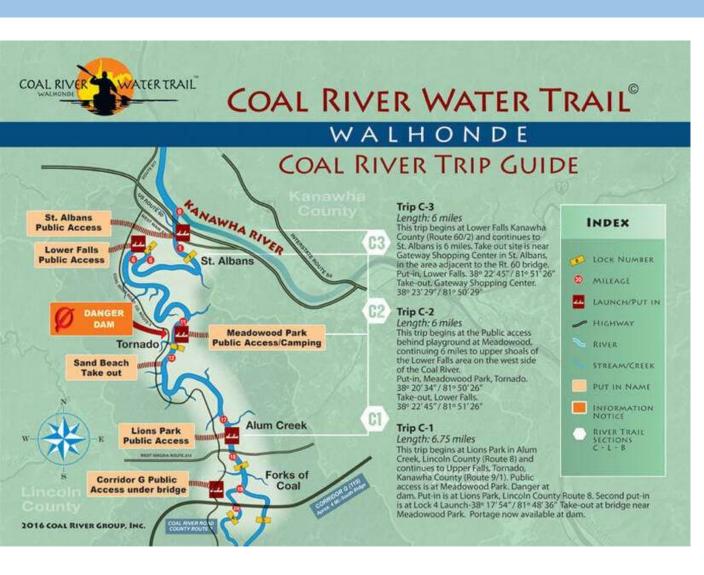
Charles Edward Fitzgerald, 33, Pulaski TN, July 11, 2011

American Rivers Reports Over 1,400 Fatalities at Low-Head Dams





Revitalization of the Coal River







Examples of Projectswhich Addressed Similar Issues

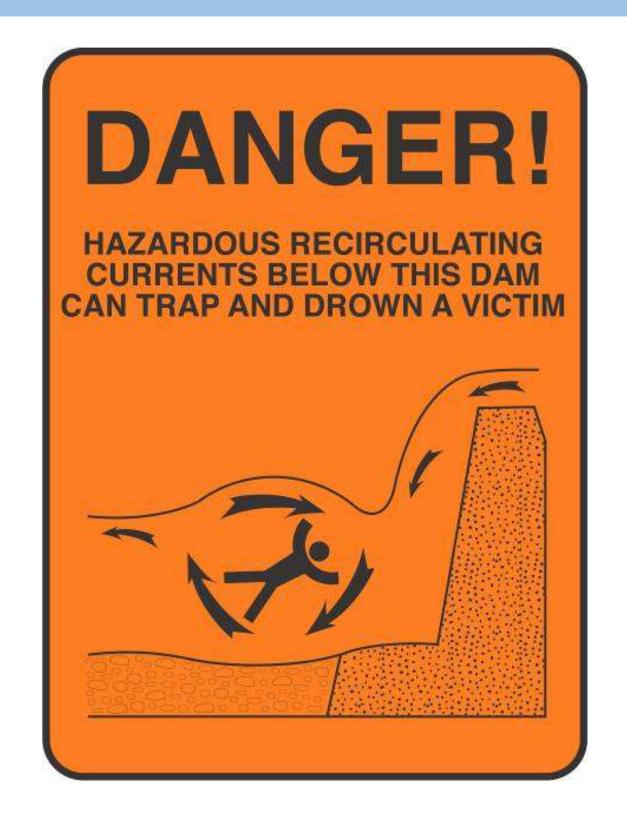
Redbank Dam – New Bethlehem, PA



Redbank Dam – New Bethlehem, PA



Signage



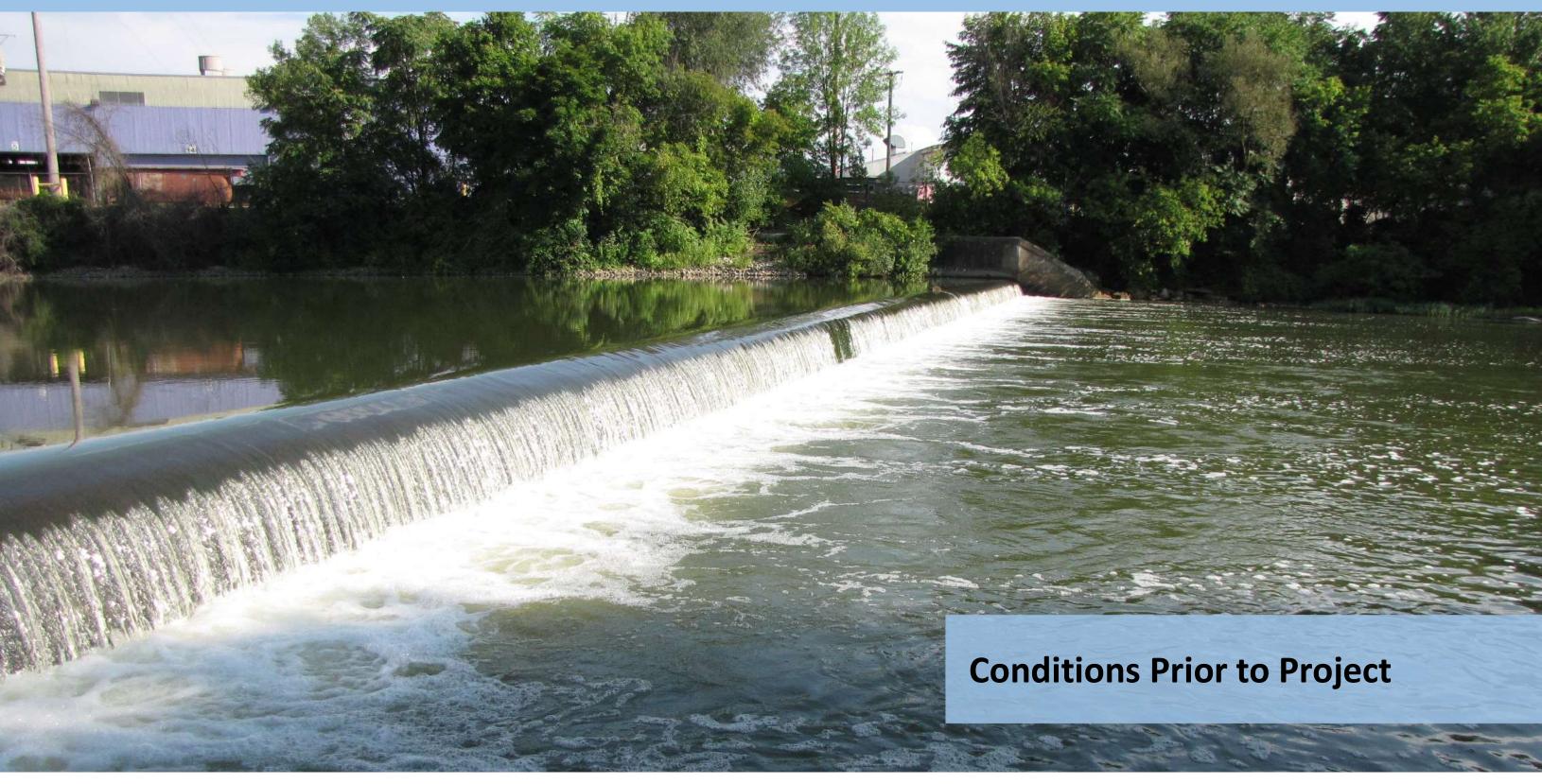


Two Lick Dam on the West Fork River - Clarksburg, WV

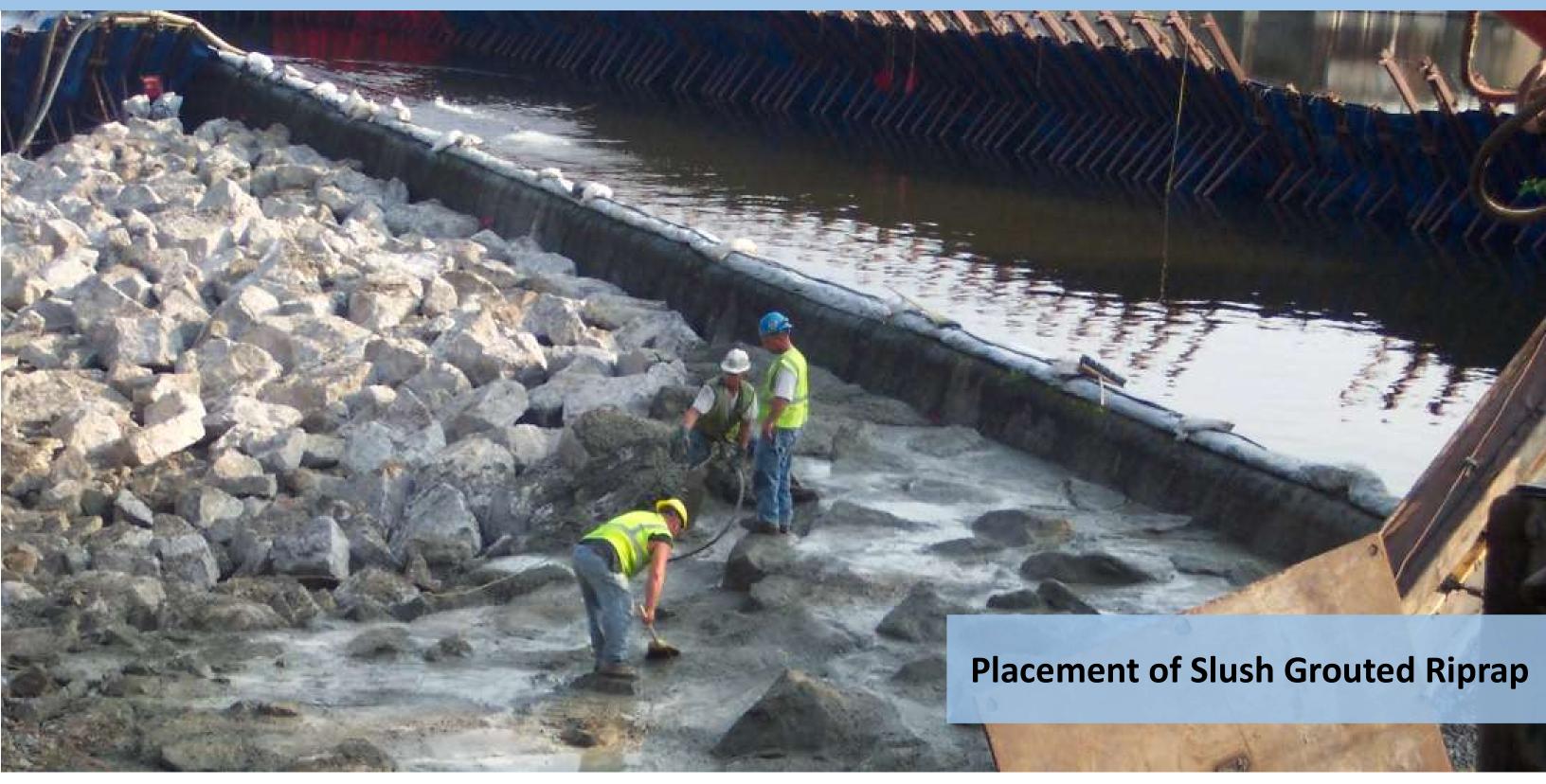




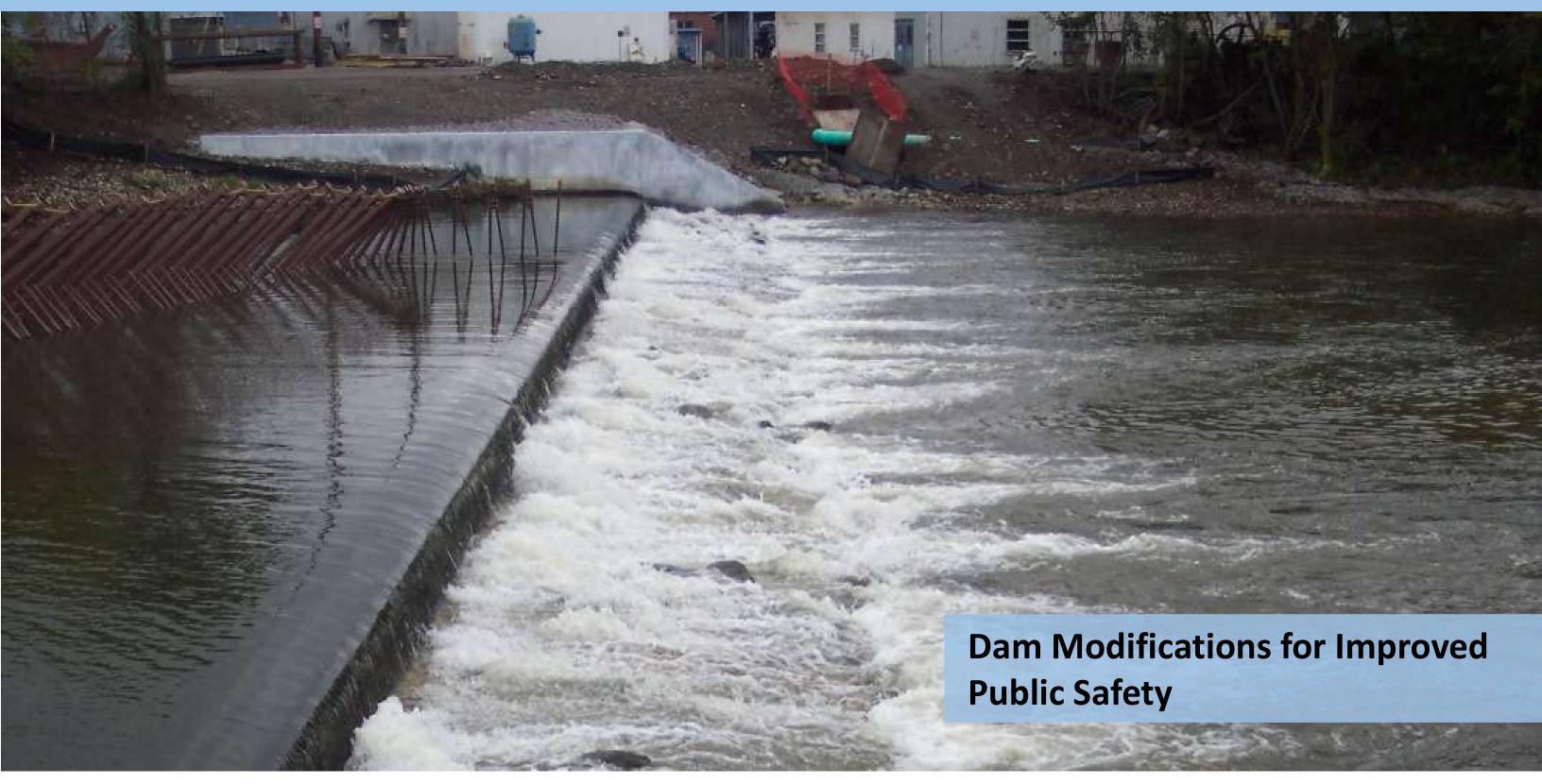
Shenango Intake Dam – Sharon, PA



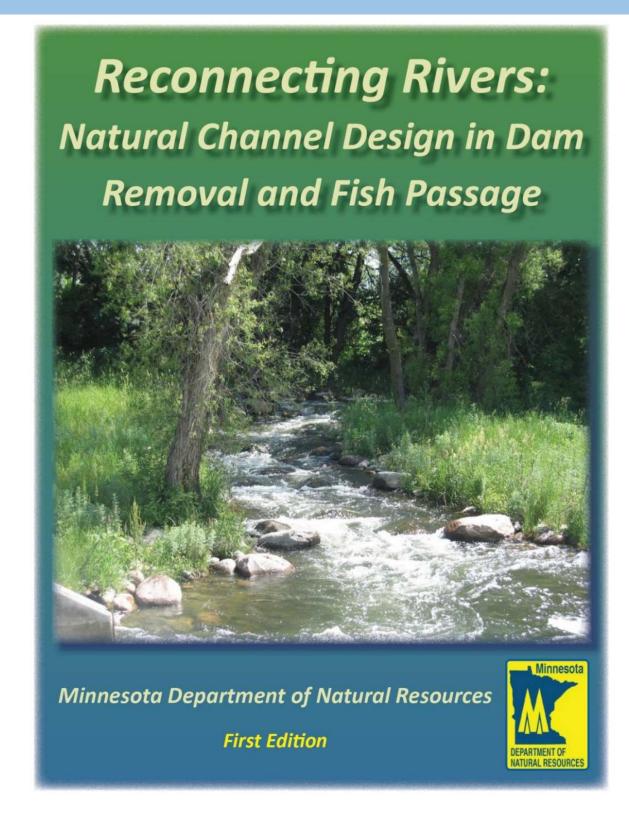
Shenango Intake Dam – Sharon, PA



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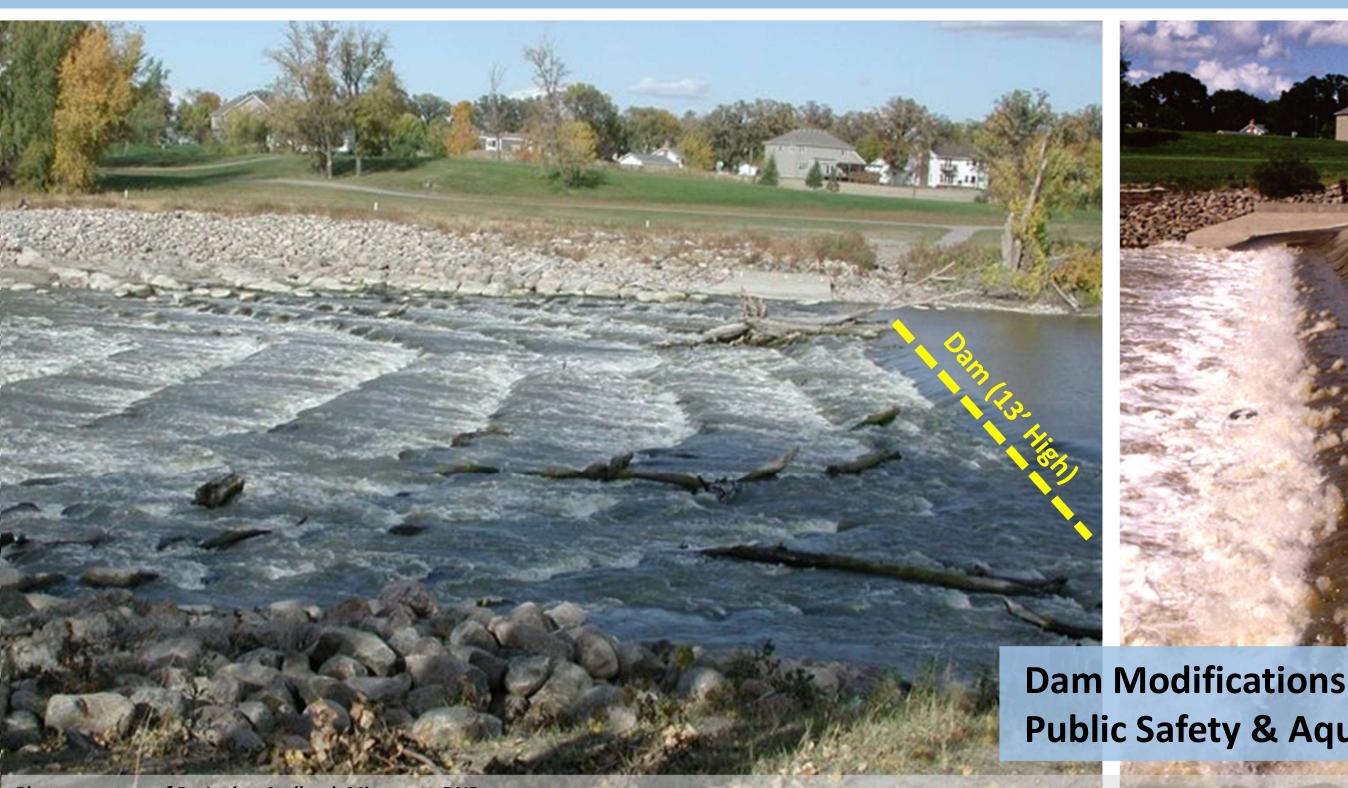
Natural Channel Design





Dr. Luther Aadland MN DNR

Riverside Dam on the Red River - Grand Forks, MN

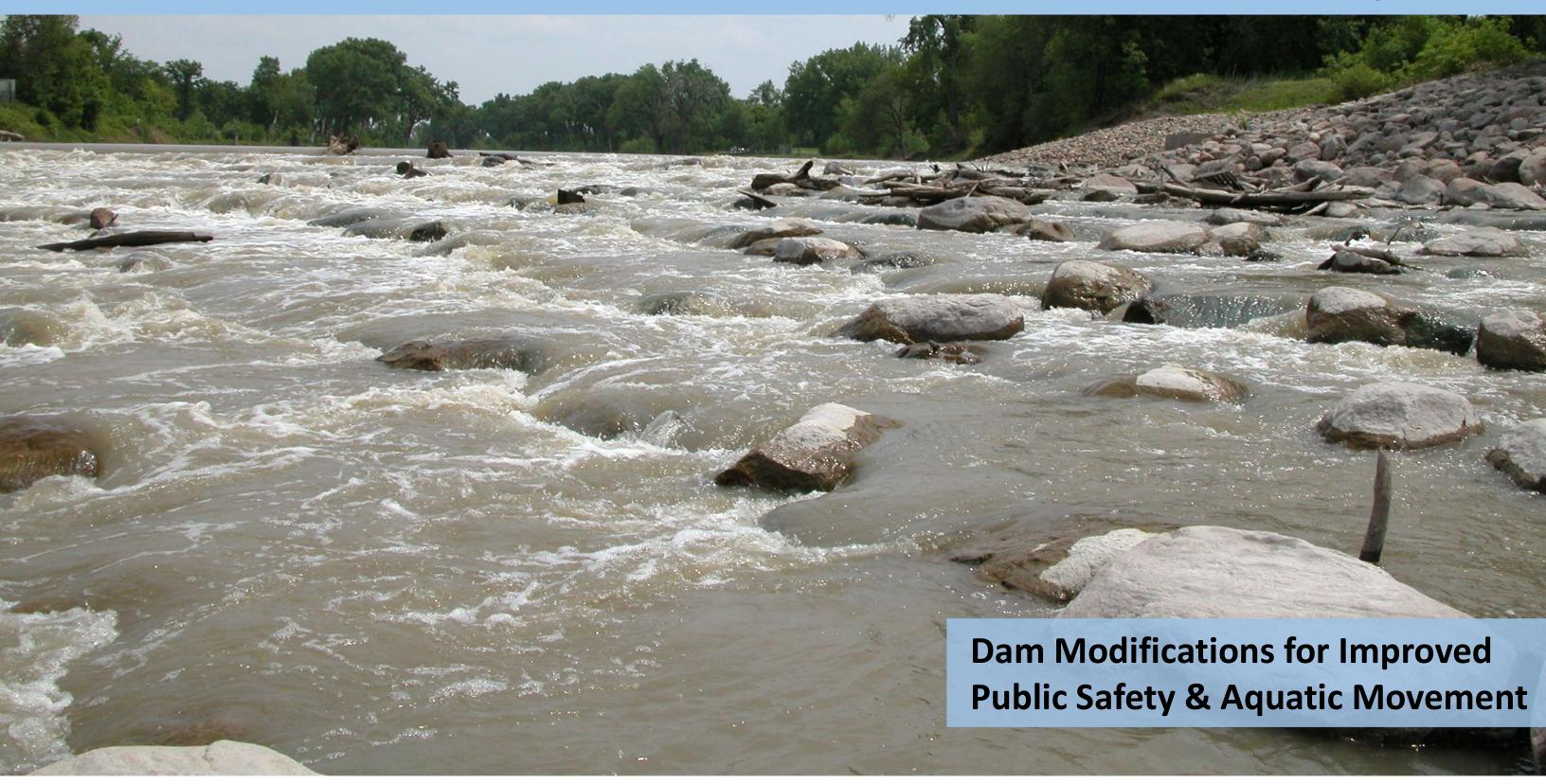




Dam Modifications for Improved Public Safety & Aquatic Movement

Photos courtesy of Dr. Luther Aadland, Minnesota DNR

Riverside Dam on the Red River - Grand Forks, MN



Brandywine Dam Removal – Chester County, PA



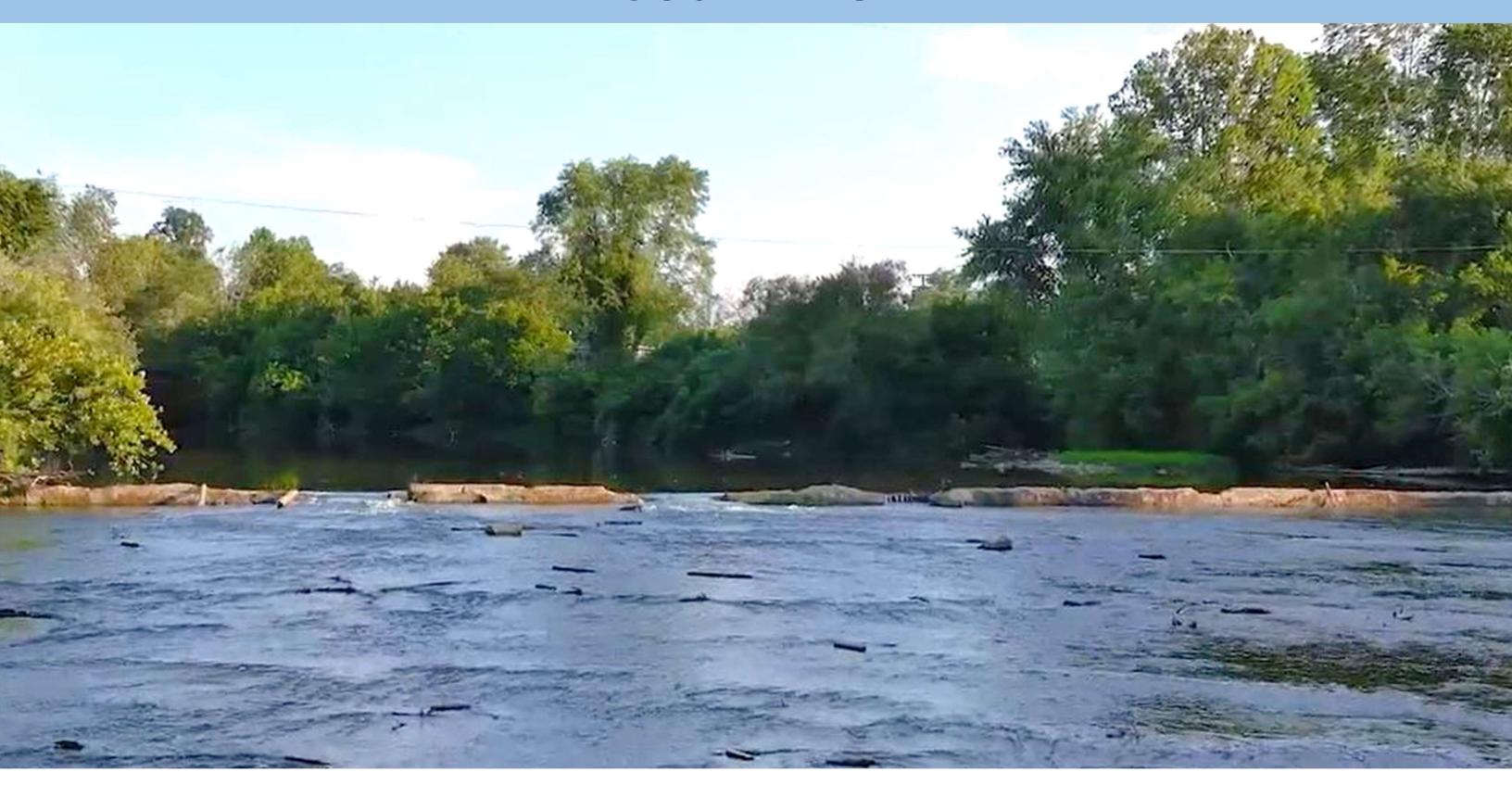
Brandywine Dam Removal – Chester County, PA



Brandywine Dam Removal – Chester County, PA



Coal River



Next Steps



We Need Your Help

If you have specific information or concerns related to the project, please complete a comment form and provide it to a member of the design team.

Comments Due by August 22, 2025



Contact Information

CCD Contact: Mr. Terry W. Hudson

Chairperson

Phone: (304) 552-6557

Email: <u>hudsonfarmscsa@gmail.com</u>

NRCS Contacts: Hannah Thacker

Phone: (304) 376-1178

Email: <u>Hannah.thacker@usda.gov</u>

Titus Smith

Phone: (304) 322-5401

Email: titus.smith@usda.gov

Gannett Fleming: Eric Neast, P.E.

Project Manager

Phone: (717) 886-5453

Email: eneast@gftinc.com

Open Discussion

