### OUTCOMES FROM STREAM RESTORATION IN THE PAST

**EVOLUTION IN THE STREAM RESTORATION PROTOCOLS** 

STAC WORKSHOP – MARCH 21, 2023



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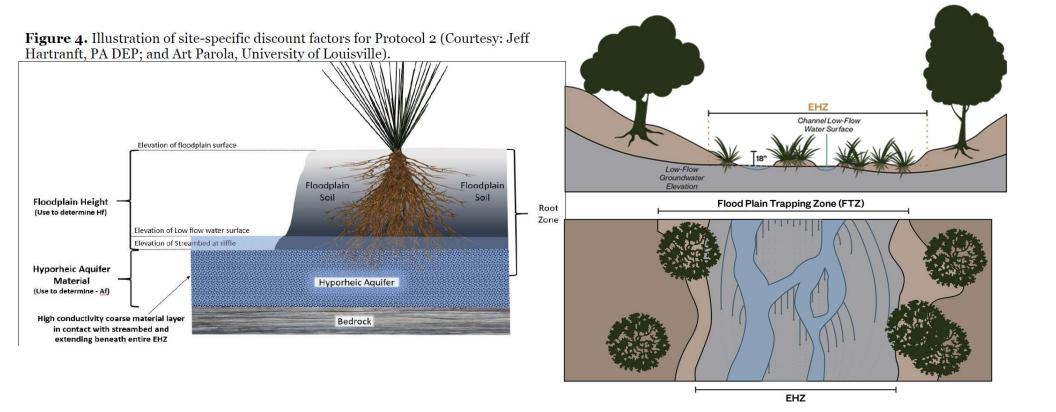


# EVOLUTION OF STREAM RESTORATION CREDITING

#### **Key Themes:**

- Improved understanding of floodplain restoration approaches
- More focus on site-specific monitoring
- Emphasis on qualifying criteria an avoiding unintended consequences
- Need for long-term project verification

# FOCUS ON THE FLOODPLAIN



# EMPHASIS ON SITE-LEVEL MONITORING

Courtesy: Stantec













# QUALIFYING CRITERIA AND UNINTENDED CONSEQUENCES

#### Non-Creditable

**Definition:** Hard, permanent structures used to protect critical infrastructure and stabilize banks. Techniques are not consistent with long-term, comprehensive restoration approaches.

- Concrete Retaining Wall
- Sheet Piling/ Planking
- Gabion
- Engineered Block Walls
- A-Jacks
- Dumped Rip Rap
- New definitions for types of bank stabilization techniques that can be used for TMDL credit.
- More emphasis on existing criteria
- Projects must demonstrate consideration of unintended consequences



### **NEED FOR LONG-TERM VERIFICATION**

