



WSDOT Scour Workshop

Module 1 Introduction

May 30th, 2023

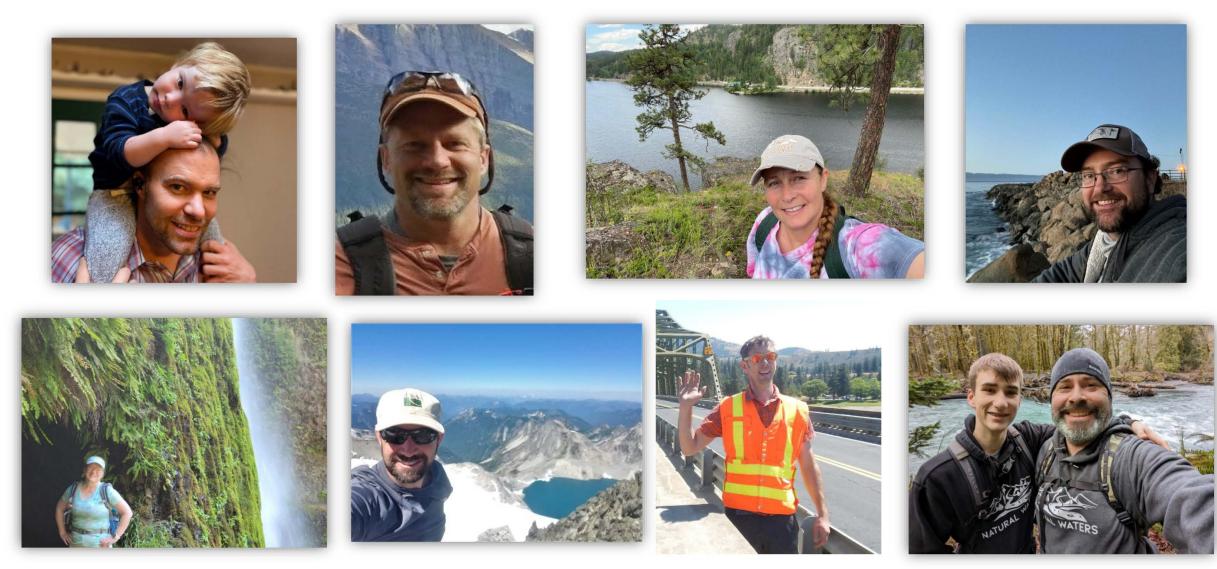
Introduction

- Instructor introductions
- Workshop objectives
- WSDOT scour certification
- Recommended resources and training
- The importance of review
- WSDOT Scour Q&A











Workshop Objectives

- Provide an update of the WSDOT scour policies and procedures
- Interdisciplinary nature of water crossings
- Express the importance of collaboration between specialty support groups
- Present an overview of scour analysis procedures using WSDOT water crossing examples
- Highlight WSDOT's and FHWA's resources for computing scour
- Provide consistency in scour analyses for WSDOT water crossings
- Importance of review throughout design process



WSDOT Scour Certification

- All scour analyses for WSDOT infrastructure will require a scour certification number (Starting January 1, 2024)
- Scour Certification will include the completion of the following:
 - WSDOT Scour Training Workshop modules
 - FHWA Bridge Scour Workshop Recordings
 - <u>NHI Course 135046 Stream Stability and Scour at Highway Bridges</u>
 - <u>NHI Course 135048 Countermeasures Design for Bridge Scour and Stream</u> instability
 - Pass WSDOT scour certification exam
- WSDOT Scour Certification Information <u>Hydraulics & hydrology training | WSDOT</u>



Recommended Resources and Training

- WSDOT Hydraulics and Hydrology Training <u>Hydraulics & hydrology training | WSDOT</u>
- Training and Workshops include:
 - WSDOT Hydraulics Manual
 - WSDOT Highway Runoff Manual
 - WSDOT Fish Passage and Stream Restoration Design
 - MGSFlood
 - Stormshed3G
 - Various Q&As (e.g., FRA and Scour)
 - Various Templates (e.g., FRA, Project Complexity, LWM, Scour)



Importance of Review

- Review of geomorphic, hydrologic and hydraulic analysis is essential to an accurate scour analysis
- Module 11 provides detail on WSDOT scour analysis review





