

# **Stream Functions Pyramid and Quantification Tool Workshop**

**Presented By: Stream Mechanics**

**Online Version**

## **Sample Agenda**

**All times are Eastern Standard Time**

### **Day One (Session One)**

- 9:30 Welcome and Overview
- 9:40 Poll Questions
- 9:50 Overview of the Stream Functions Pyramid Framework
- 10:30 Overview of the Stream Quantification Tool (SQT)
- 11:15 SQT Poll Questions and Discussion
- 11:30 Break
- 11:45 Intro Case Study and Setup SQT
- 12:00 Hydrology Functions
- 1:00 Lunch Break
- 2:00 Hydrology Exercise for Case Study
- 2:45 Bankfull Identification and Verification
- 3:30 Bankfull Verification Exercise for Case Study
- 4:00 Break
- 4:15 Rosgen Stream Classification System
- 5:15 Stream Classification Game  
Determine Rosgen Stream Type for Case Study
- 5:30 Adjourn

### **Day Two (Session Two)**

- 9:30 Hydraulic Functions (Floodplain Connectivity)
- 10:15 Hydraulic Exercise for Case Study (Floodplain Connectivity)
- 11:00 Break
- 11:15 Hydraulic Functions (Flow Dynamics and Side Channels)
- 11:45 Hydraulic Exercise for Case Study (Flow Dynamics)
- 12:15 Lunch
- 1:15 Geomorphology Functions (Sediment Transport and Large Woody Debris)
- 2:30 Large Woody Debris Exercise for Case Study
- 2:45 Geomorphology Functions (Bedform Diversity)
- 3:45 Break
- 4:00 Bedform Diversity Exercise for Case Study
- 4:30 Break
- 4:45 Geomorphology Functions (Lateral Migration)
- 5:30 Adjourn

### **Day Three (Session Three)**

- 9:30 Lateral Migration Exercise for Case Study
- 10:15 Geomorphology Functions (Bed Material Characterization and Riparian Vegetation)
- 11:15 Riparian Vegetation Exercise for Case Study
- 12:00 Lunch Break
- 1:00 Physicochemical and Biology Functions
- 2:00 Channel Evolution
- 2:45 Break
- 3:00 Restoration Potential
- 3:30 Determine Restoration Potential for Case Study
- 4:00 Break
- 4:15 Existing, Design, Proposed, and Reference Stream Type Determination
- 4:45 Determine Existing, Design, Proposed, and Reference Stream Types for Case Study
- 5:00 Function Based Goals and Objectives
- 5:30 Adjourn

#### **Day Four (Session Four)**

- 9:30 Develop Function-Based Goals and Objectives for Case Study
- 10:00 Model Proposed Condition Scenarios with SQT
- 10:45 Break
- 11:00 Using the SQT to Measure Functional Loss (Debit Calculator)
- 11:30 SQT Visions for the Future
- 12:00 Wrap Up and Adjourn