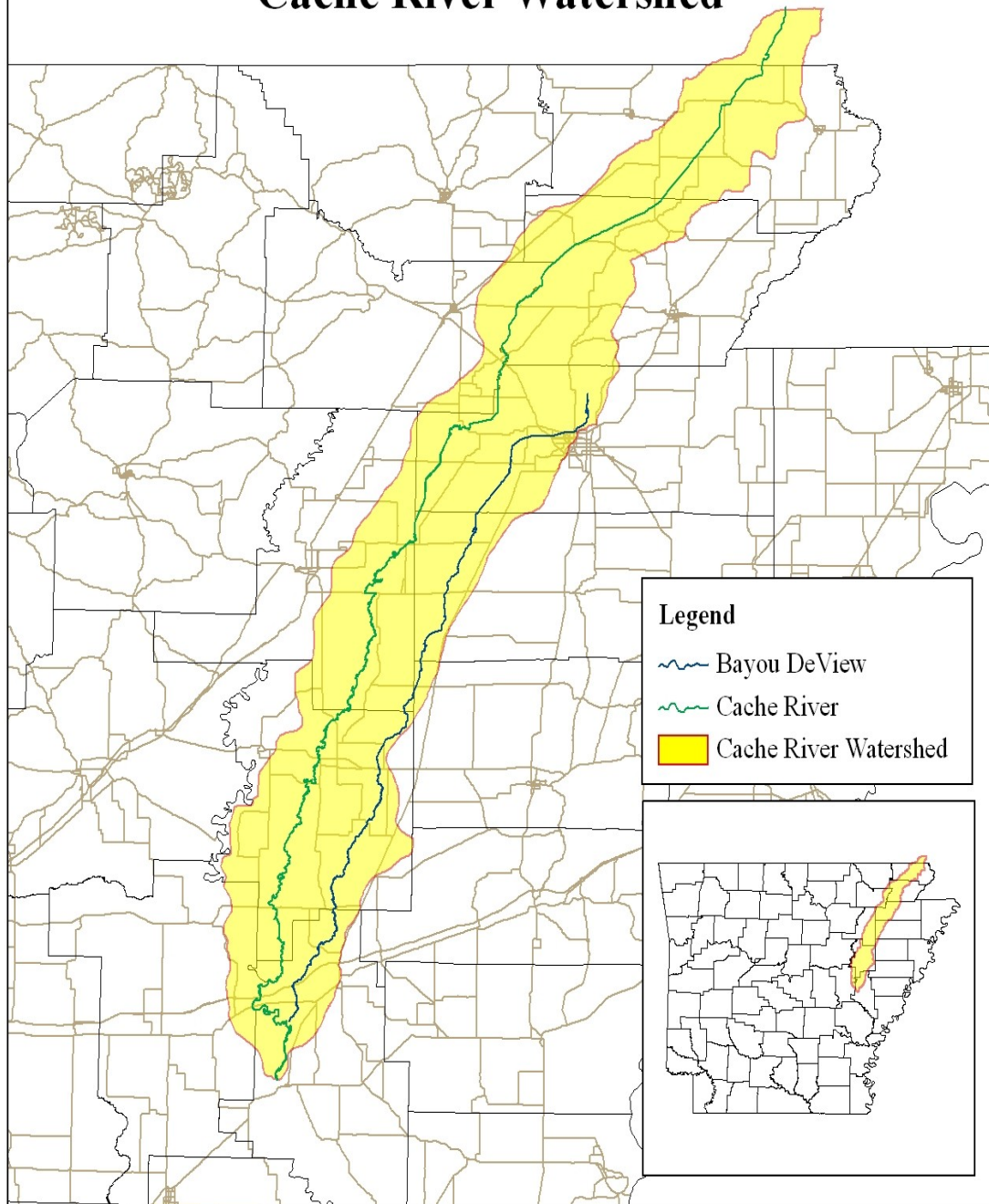


*Sediment Assessment:  
The Cache River Watershed of Arkansas  
FY 06-400*

*Matt Lindsey  
The Nature Conservancy  
17 September 2008*

# Cache River Watershed







# Landscape Fragmentation & Agricultural Runoff





# Channelization & Ditch Maintenance



# Headcutting into Crowley's Ridge







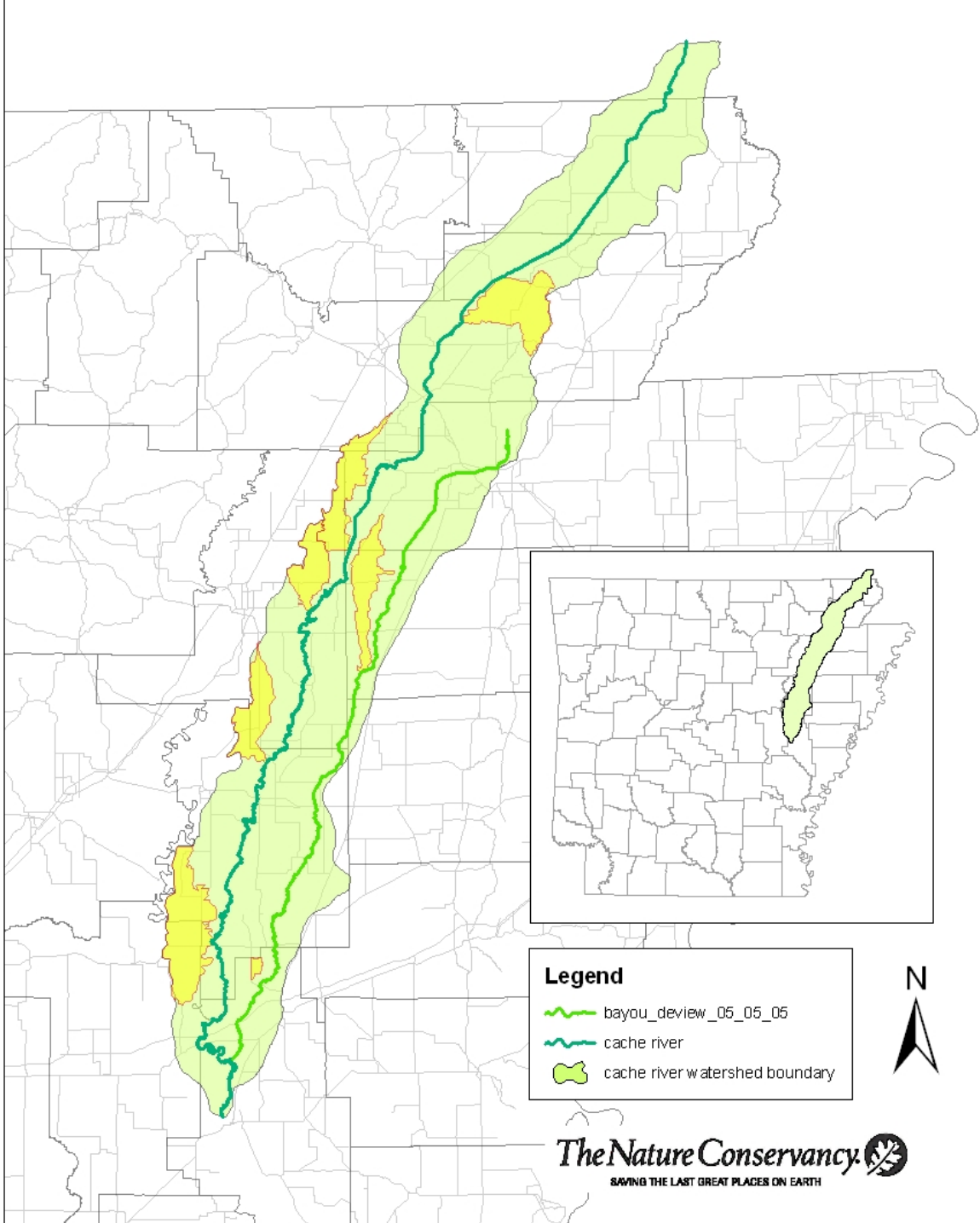
**Main Channel Instability**

**Sedimentation**









**Legend**

- bayou\_deview\_05\_05\_05
- cache river
- cache river watershed boundary

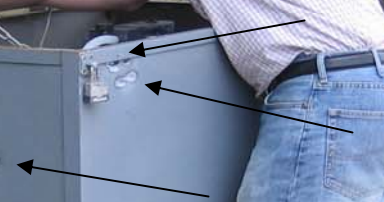




# Project Objectives

- 1) Install continuous monitoring stations necessary for sampling/monitoring.
- 2) Characterize sediment flux and flow regime for each monitoring site.
- 3) Document bank stability conditions upstream of each monitoring site.
- 4) Identify, rank and prioritize the major sources of suspended sediment for each monitoring site.













OBJECTS IN MIRROR ARE CLOSER  
THAN THEY APPEAR





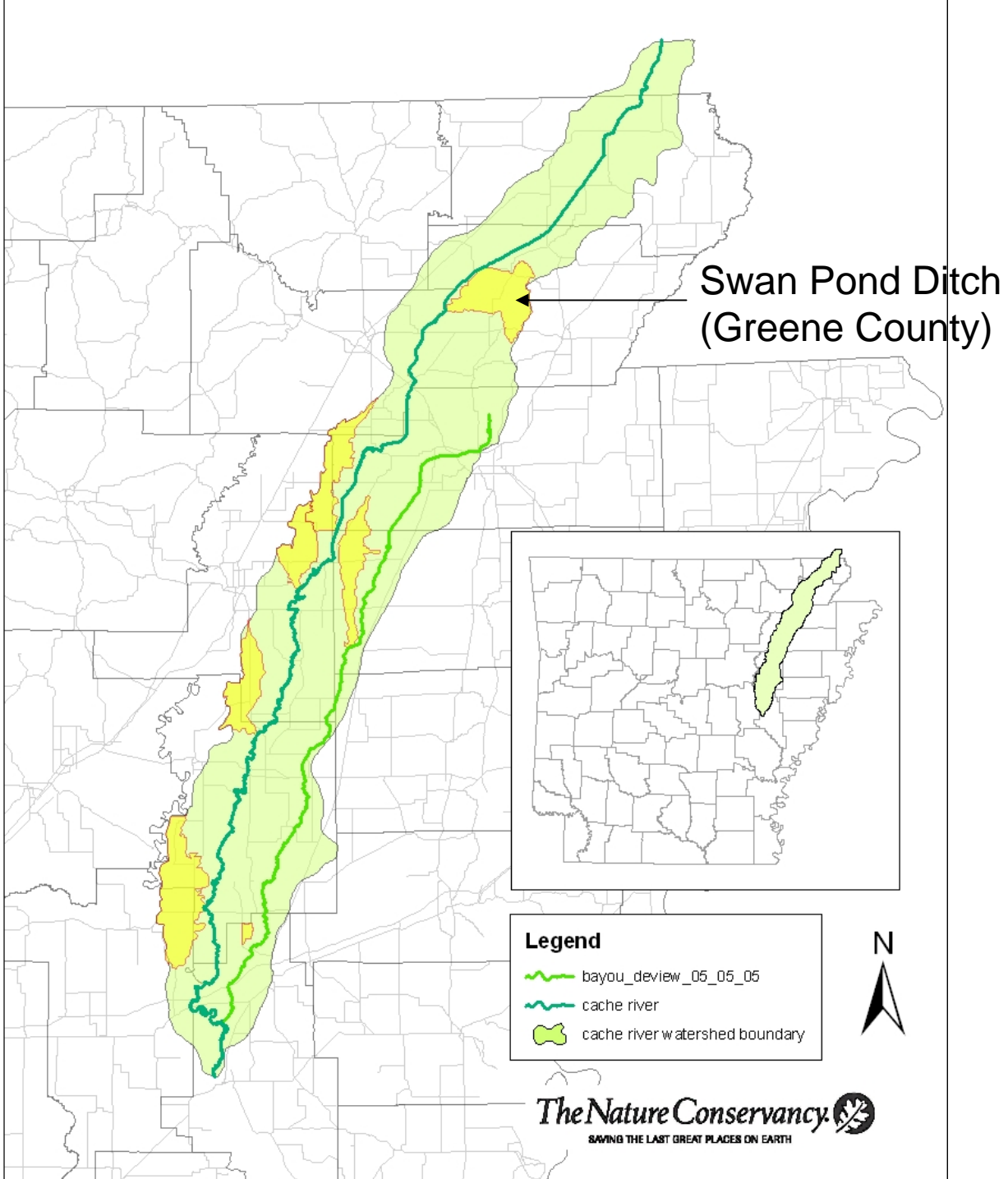














# SWAN POND

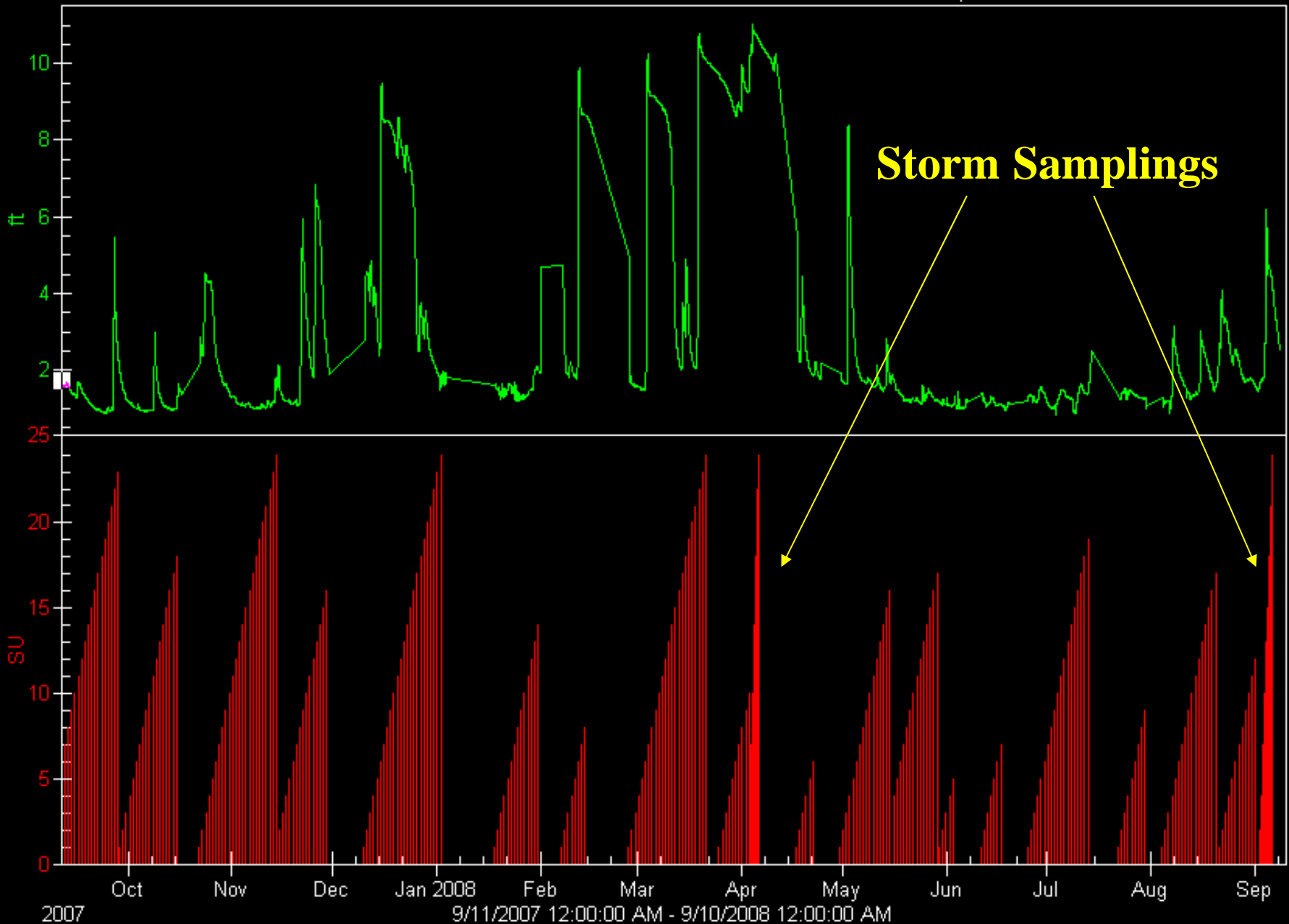
Flowlink 5



Level

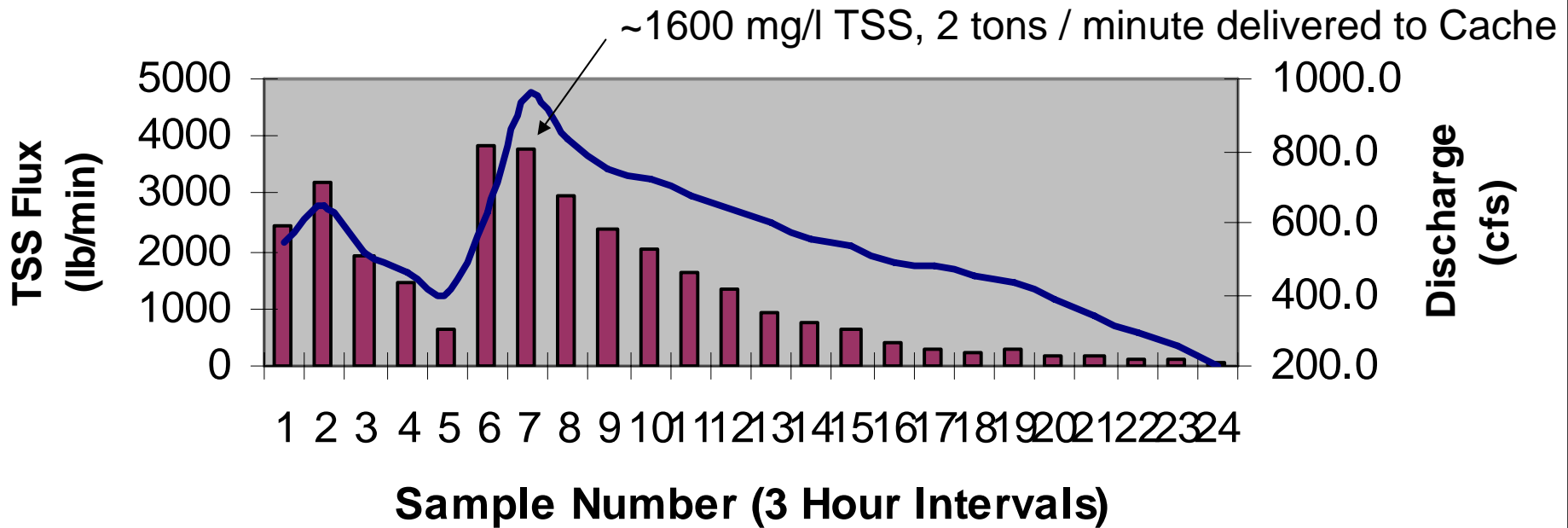


Sample Event





# Swan Pond Ditch (April 3-6, 2008)



■ Sediment Flux — Discharge



# Next Steps

- 1) Install continuous monitoring stations necessary for sampling/monitoring.
- 2) Characterize sediment flux and flow regime for each monitoring site.
- 3) Document bank stability conditions upstream of each monitoring site.
- 4) Identify, rank and prioritize the major sources of suspended sediment for each monitoring site.



