



# Digging into a Dredge Project: How the Work Begins

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# Prichard Creek Project

- 10.5 miles (of 14 miles) owned by Idaho Forest Group
- Conservation Easement on project area
- Lot of public lands surrounding
- Cold water, Westslope cutthroat trout
- High priority for local funder





## Prichard Creek Challenges

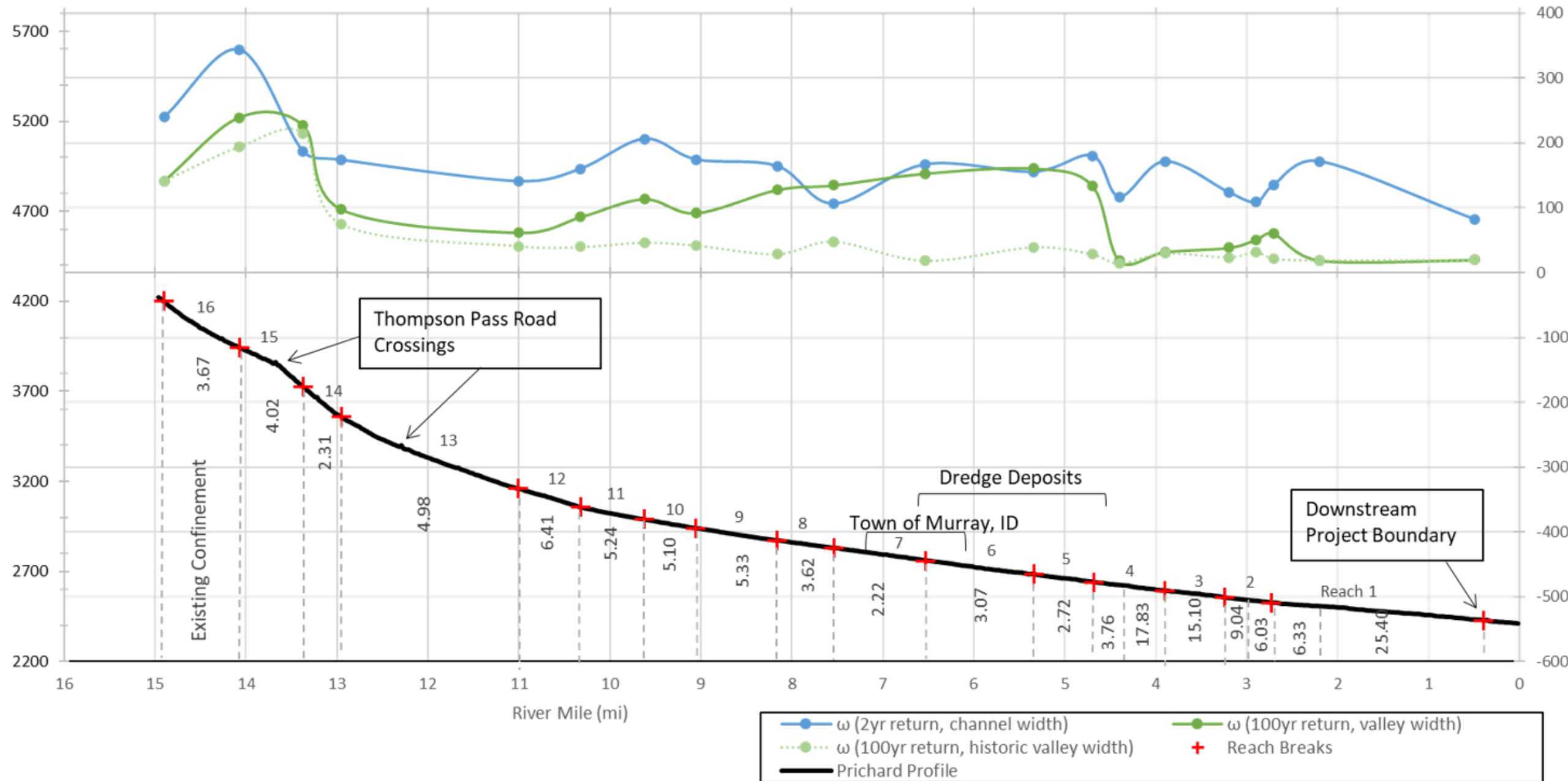
- Mining –hard rock, placer and bucket dredge
- Infrastructure constraints
- Contamination
- Historically heavily logged
- Ongoing placer mining in tributaries

# Impacts of Placer Mining & Bucket Dredge

- Subsurface flows
- Lots of rock moving through the drainage
- Lack of wood and habitat complexity
- Lack of fine sediment



# Prichard Creek - Profile, Specific Stream Power, & Confinement Ratio



# PHASE 1

- Bottom 4 miles
- Construction 2023
- Large wood & berm removal



## 5 years in and the project continues to grow...

- Conservation Easement
- Phased plan development for 10.5 miles
- Land swaps
- Ground water monitoring
- Design for each section
- Cultural resources
- Contamination management
- Funding
- Remaining mine cleanups
- Securing remaining private parcels on stream.
- Defining priorities between partners.



# The Dredged Section:

## Hard Choices

- What is the desired result?
- Is it feasible to restore surface flows, all year, every year?
- Will there be impact to the temperature?
- What are the risks and chance of failure?
- Are partial fixes worth the effort?

	High	High	Med	High	N/A	High	High	Low	Med	Low	Low
	Low	Low	Med	Low	N/A	Low					
	N/A	Low	Low	N/A	N/A						
	Med	Med	Med	Low	N/A	Med	Med	Med	Low	Med	Med
	Med	Med	Low	N/A	N/A	Med	Med	Low	Low	Low	Low
	N/A	N/A	N/A	N/A	N/A						
	Med	Low	Med	N/A	N/A	Med	Med	Med	Low	Low	Low
	High	Med	High	Low	Low	High	High	Low	Med	Low	Low
	Low	Low	N/A	N/A	N/A						
	Med	Med	N/A	N/A	N/A	High	Med	Low	Low	Med	Med
	Low	Low	N/A	N/A	N/A	Med	Low	Low	Low	Low	Low
	Low	Low	N/A	N/A	N/A						
	Med	Med	Low	N/A	N/A	Med	Med	Low	Low	Med	Med
	Med	Med	Low	N/A	N/A	High	Med	Low	Low	Low	Low
	Med	Med	Med	N/A	N/A	High	High	Low	Low	Low	High
	Low	Low	Low	N/A	N/A						
	Med	Low	Low	N/A	N/A	Med	Med	Low	Low	N/A	Low
	High	Med	Med	N/A	N/A	High	High	Med	Low	N/A	Low
	N/A	Low	Low	N/A	N/A						
	Med	High	High	Med	N/A	High	Med	Low	Med	N/A	Low
	Low	Med	Med	Low	N/A	Med	Low	Med	Med	N/A	Low



A scenic view of a river flowing through a forest. The river is filled with large, smooth rocks and is surrounded by dense evergreen trees. Large fallen logs and branches are scattered along the banks and in the water. The scene is captured in a natural, outdoor setting.

# THANK YOU!

- Idaho Forest Group
- Idaho DEQ
- The Restoration Partnership
- Idaho Dept of Fish & Game
- USFWS
- Idaho Dept. of Water Resources
- And many more...