

**River View Carbon Beaver  
TMDL  
Sediment/Temperature  
Reduction project**

# Existing Guidance and Direction

- 2001 Sub basin Assessment and Total Maximum Daily Loads of the North Fork Coeur d'Alene River (17010301)
- 2013 Upper (North Fork) Coeur d'Alene Sub basin Temperature Total Maximum Daily Loads Addendum.
- 2013 Beaver Creek Watershed Assessment, Shoshone County Idaho
- North Fork Coeur d'Alene River Watershed Advisory Group priority projects.
- 2011 North Fork Coeur d'Alene River cooperative recreation management plan

# OBJECTIVES:

- Protect private property.
- Protect Federal, State and County investments.
- Reduce sediment loads to Beaver Creek and the North Fork Coeur d'Alene River.
- Reduce thermal loadings to Beaver Creek and the North Fork Coeur d'Alene River.
- Improve habitat for native fish and riparian dependent species.

This project is driven by private land owners, the NIFC and NFCDA River WAG, it provides an incremental and top down effort to reduce sedimentation and lower stream temperatures in Beaver Creek and the North Fork Coeur d'Alene River.

## **Collaborators**

**North Idaho Fly Casters**

**River's Edge Acres development**

**Dan Guy**

**Ingrid Madsen**

**State of Idaho**

**University of Idaho**

**Idaho Soil Conservation Commission**

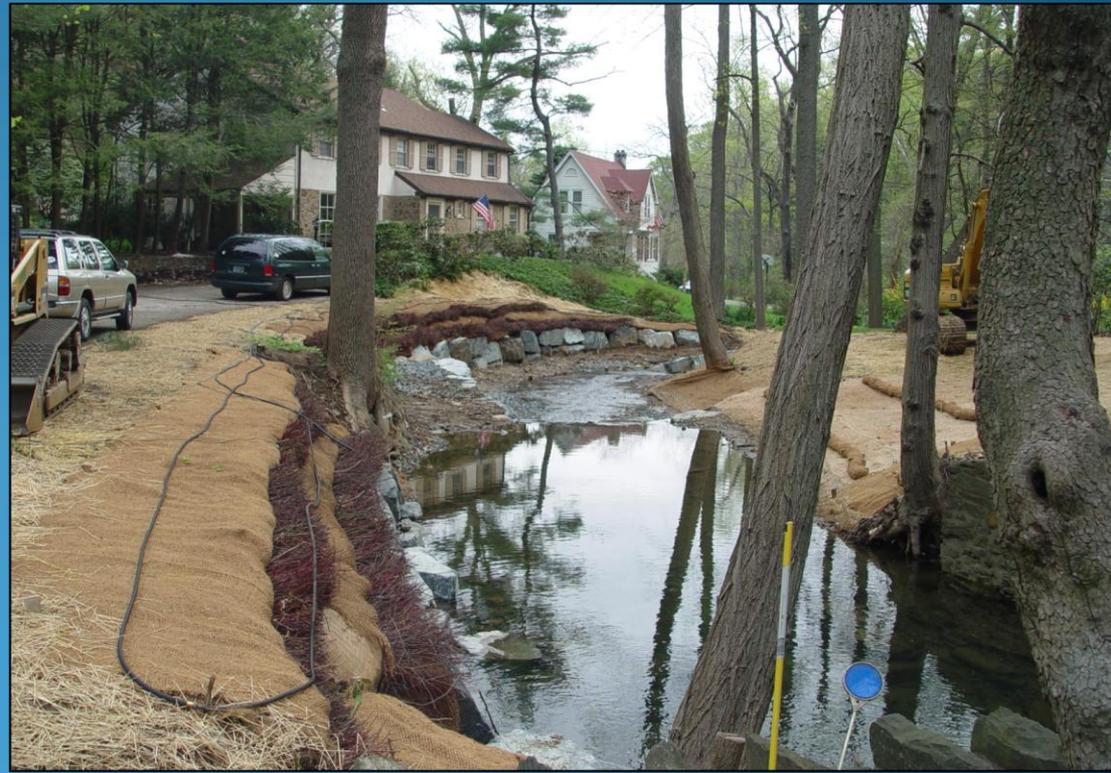
# North Idaho Fly Casters

- Over 40 Projects completed
- 10,000 hours of Volunteer time
- 60 + thousand in grant money
- Completed 319 grant, implementation of grant and monitoring program of the Short Riley Porter Memorial Watershed Restoration Project (2008-2011)
- Active participation (over 25 years) in restoration work in the Coeur d'Alene basin which has lead to recommendations in the integrated report that watersheds meet beneficial uses. (ie Mid Tepee Creek)

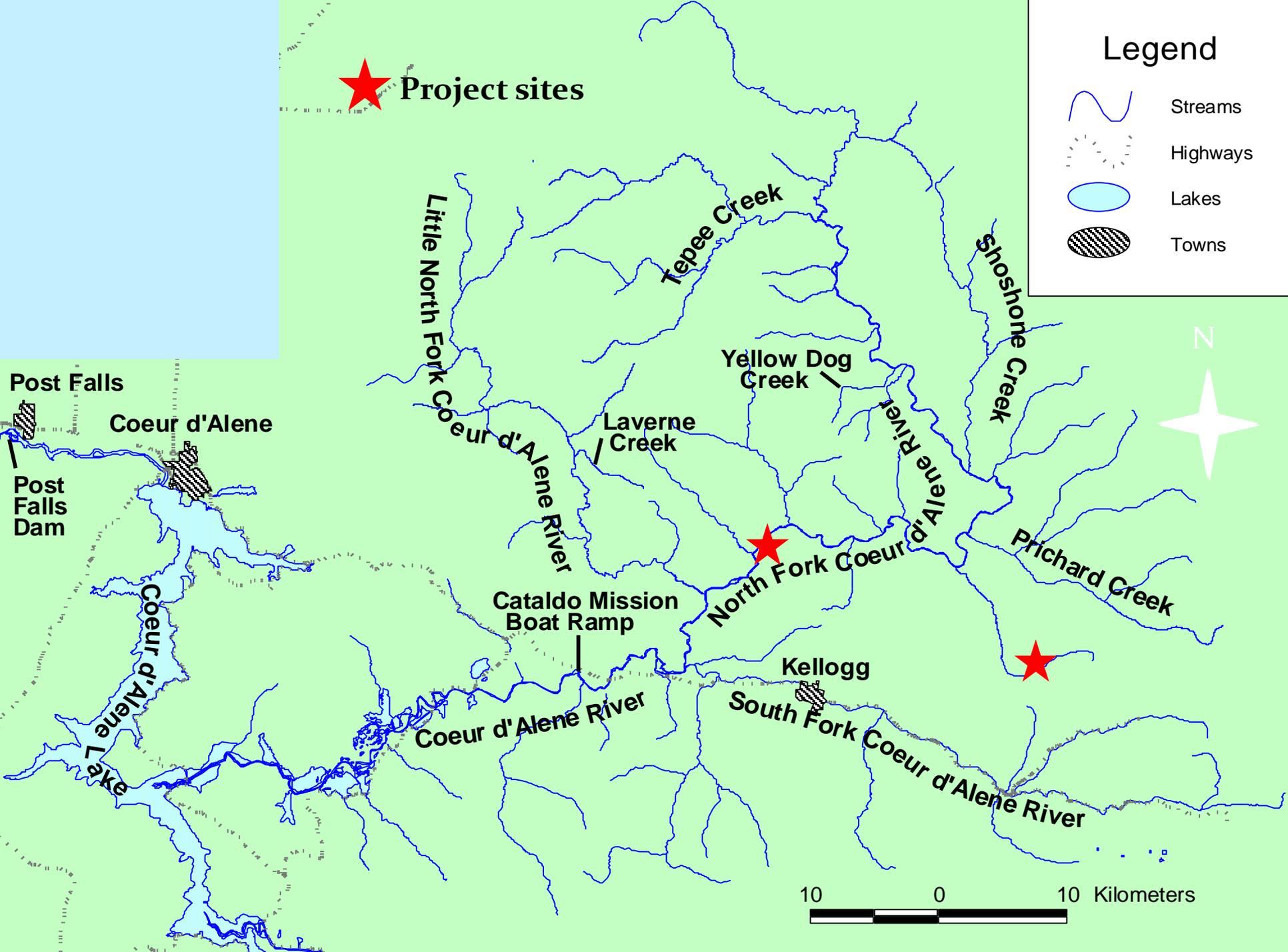
# Project partners active in restoration work and the North Fork Coeur d'Alene River Watershed Assessment Group.

- Dan Guy owner of Timber View, Inc is active in past and ongoing watershed restoration.
- Ingrid Madsen active in working with the WAG and County to improve stream conditions in Upper Beaver Creek.
- University and State of Idaho providing expertise in restoration, public education and monitoring.

**PUT TOGETHER A GROUP OF  
HIGHLY EXPERIENCED  
INDIVIDUALS AND GROUPS TO  
COMPLETE THESE PROJECTS**

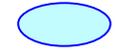






 Project sites

### Legend

-  Streams
-  Highways
-  Lakes
-  Towns



10 0 10 Kilometers



# Budget and Cost share

<b>Project Area</b>	<b>Length of bank stabilized</b>	<b>Rock /trees and haul \$</b>	<b>Barb Revetment tree placement \$</b>	<b>Estimate # Cuttings trees</b>	<b>Cuttings and Planting or Bioengineering costs</b>	<b>Cost /foot*</b>
<b>River View site</b>	<b>700 **1000</b>	<b>\$33,690.00</b>	<b>\$12,800</b>	<b>12000</b>	<b>\$19,290.00</b>	<b>\$93.97 **\$65.78</b>
<b>Madsen site</b>	<b>850</b>	<b>\$12,900.00</b>	<b>\$7,000.00</b>	<b>6000</b>	<b>\$13,000.00</b>	<b>\$38.70</b>

# **Projects and Restoration work**



# RIVER VIEW SITE





**BARBS**



# BIOENGINEERING







11. 5. 2005



# CARBON BEAVER SITE





11.3.2005



11.3.2005

# Benefits and Outcome

- Stabilize 1550 feet of eroding banks
- Reduce sediment loads to Beaver creek and the North Fork Coeur d'Alene River.
- Reduce thermal loading along 1550 feet of stream
- Improve habitat for native species

1. The Riverview project will reduce sediment loads by an estimated 1,500 tons. Planting of vegetation will provide shade, willows short term and trees long term on 700 – 1000 feet of river .
2. Beaver Carbon will reduce sediment load by an estimated 500 tons. Planting of vegetation will provide shade, willows short term and trees long term on 850 feet of Beaver Creek.
3. Work will use local contractors putting money into the local economy.
4. Long term impacts will reduce sediment and temperature loads in Beaver Creek and the North Fork of the Coeur d'Alene river. Over time this project will incrementally help remove both streams from their impaired status and allow more management of other resources within the basins.

# QUESTIONS