

Upper Dredge Lake Beaver Patrol Coho Salmon Habitat and Beaver Dams

**Scott A. Miller, Beaver Patrol Member
and Den Leader of Den 1
Pack 7 Mendenhall River School
Cub Scouts**



Brief History

Discovery of the Hoover Dam in 2008.

Cub Scout den volunteered to maintain fish passage as a public service project.

So many trips, so few fish!

Expansion of the Upper Dredge Creek dam system; now called *Colossus*, side channels, and *Homestretch Dam*.

Bank Lodge development (2011 - present)

Removal of concrete structure (2013); *Hoover* now called *Bank Lodge Dam*.



Upper Dredge Coho Habitat



Google earth

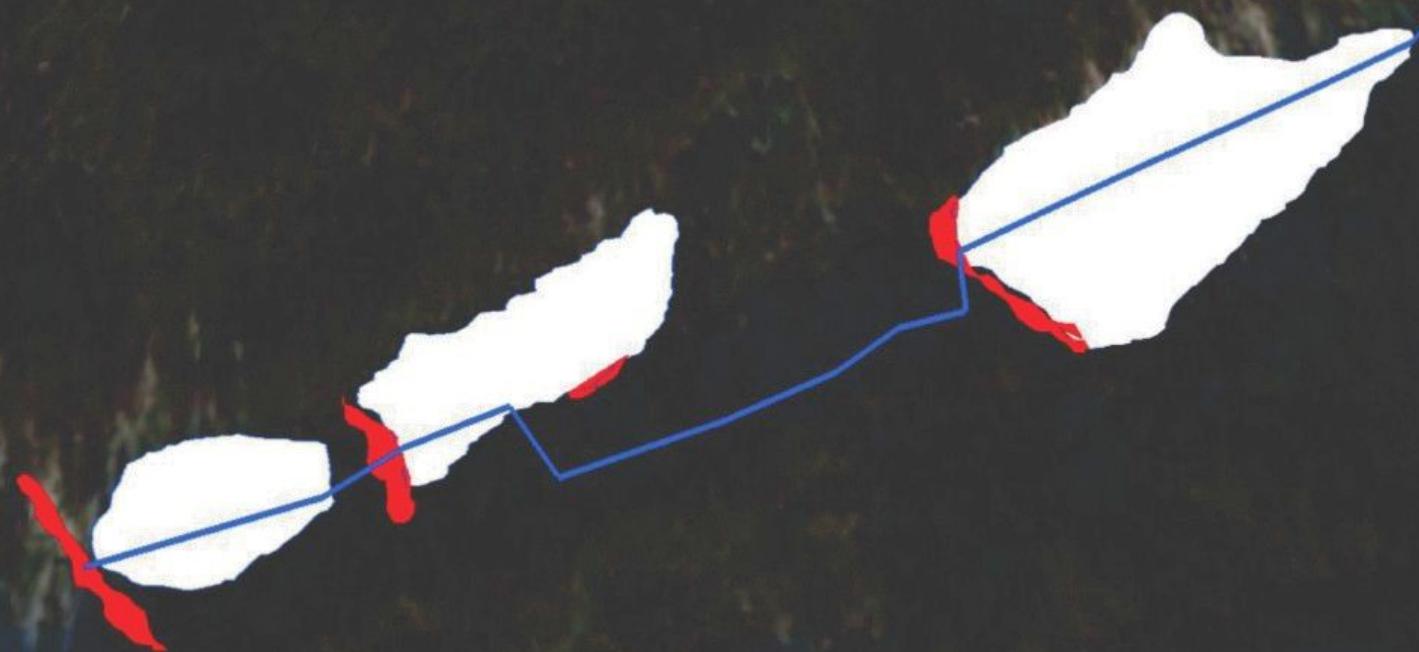
Image © 2014 DigitalGlobe

600 ft

Upper Dredge Lake Beaver Dam System

Legend

- Bank Lodge
- Dam
- Pond
- mainstem



Google earth

Image © 2014 DigitalGlobe

N

100 ft

A photograph of a dark, dense forest scene. In the center-left, a large pile of fallen logs and branches rests on a dark, rippling body of water. The surrounding trees are tall and thin, their trunks and branches heavily covered in bright green moss. The overall atmosphere is dark and moody.

Bank Lodge

The Early Years; Only *Hoover*

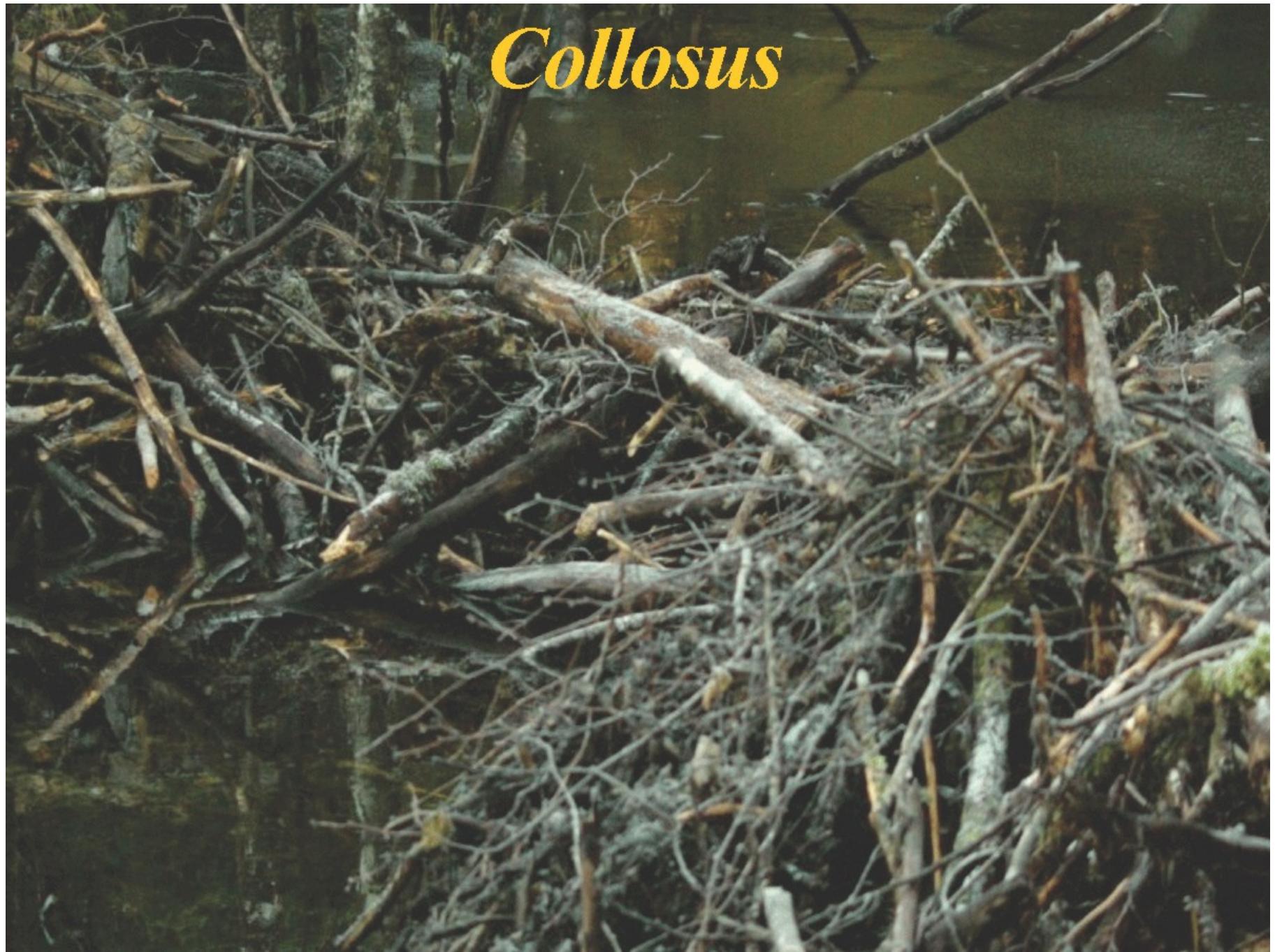
Cub Scout chain gang moves
stick piles away from
Hoover Dam.



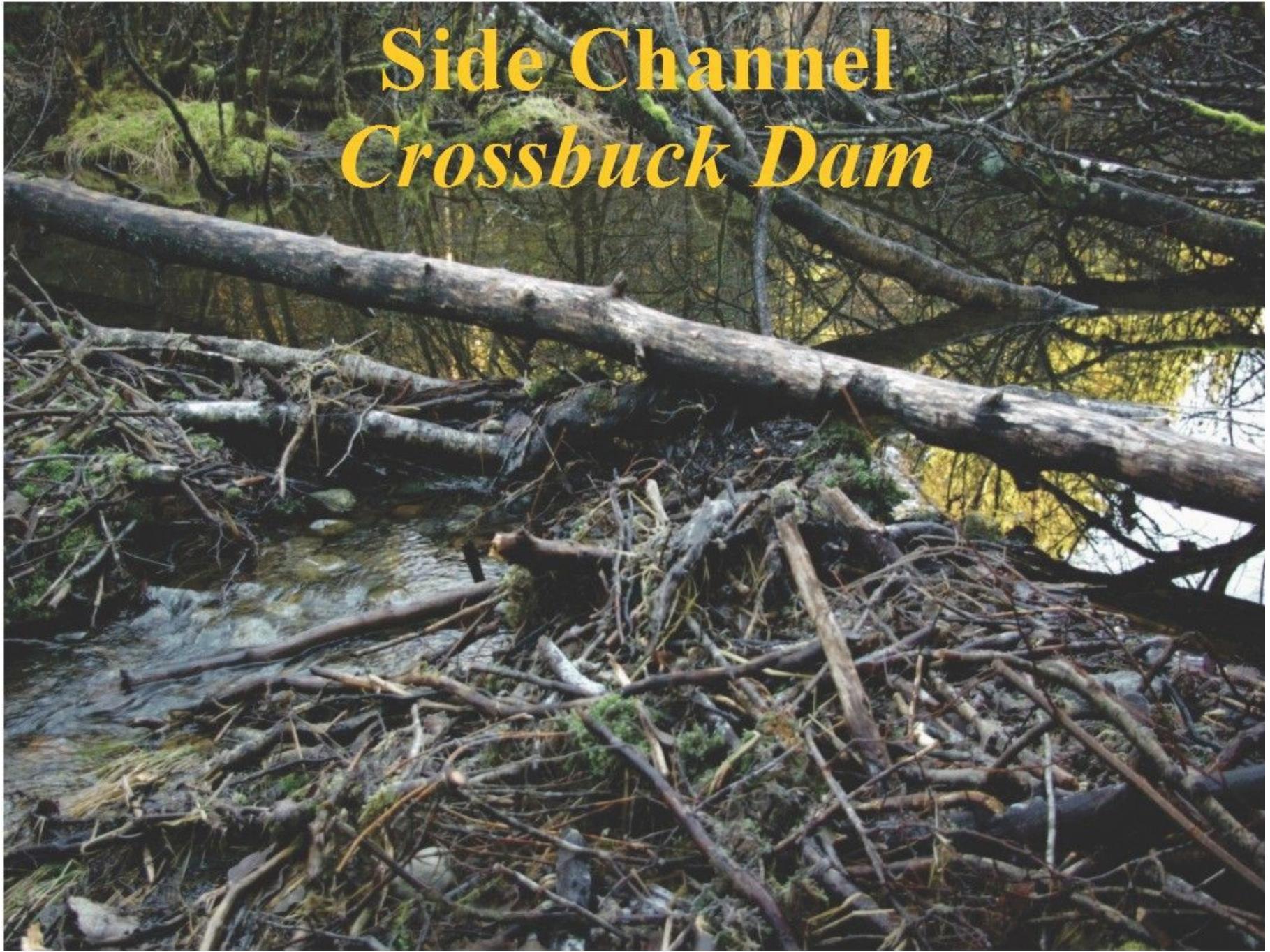


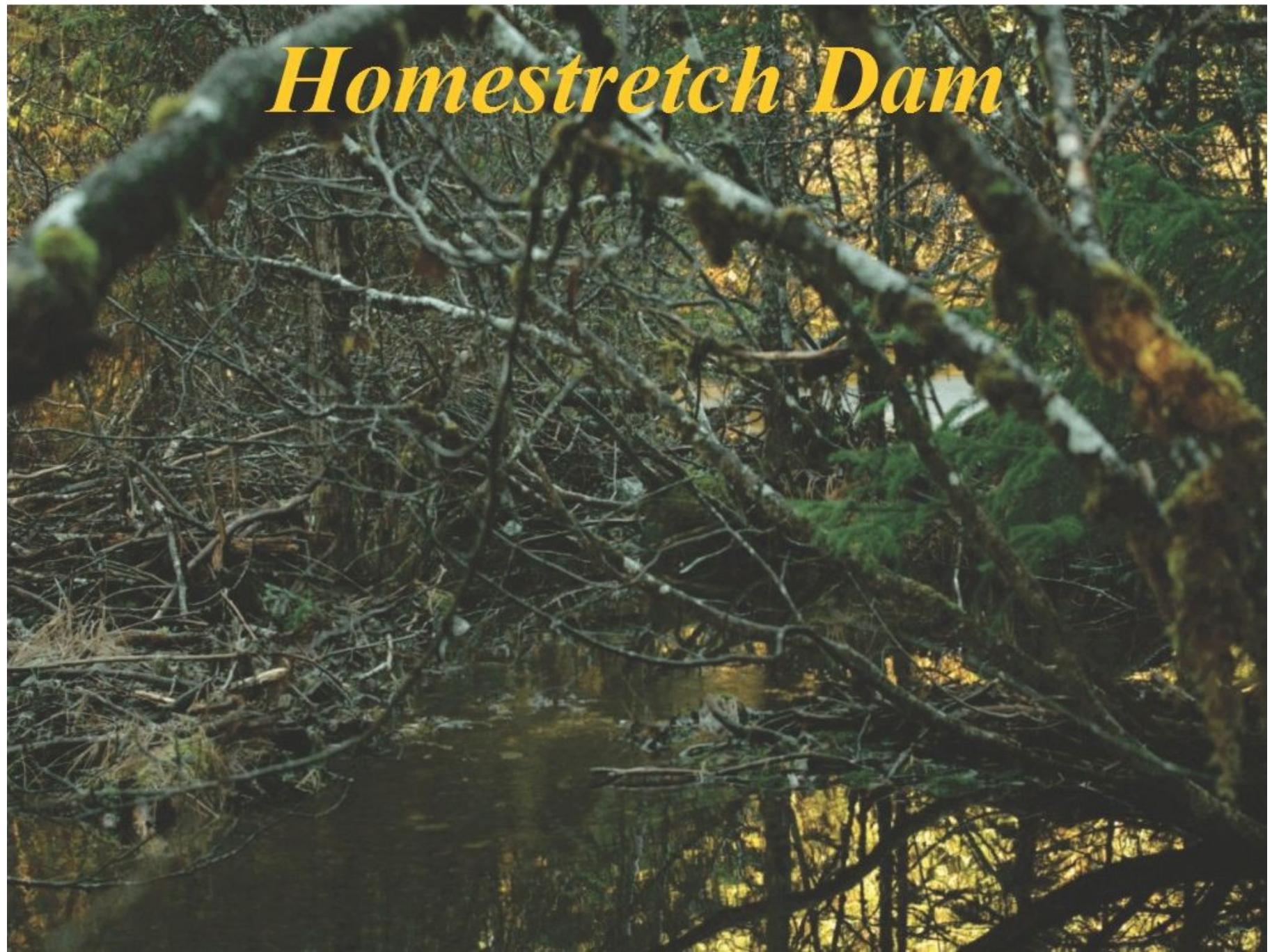
*Bank Lodge Dam,
formerly Hoover*

Collosus

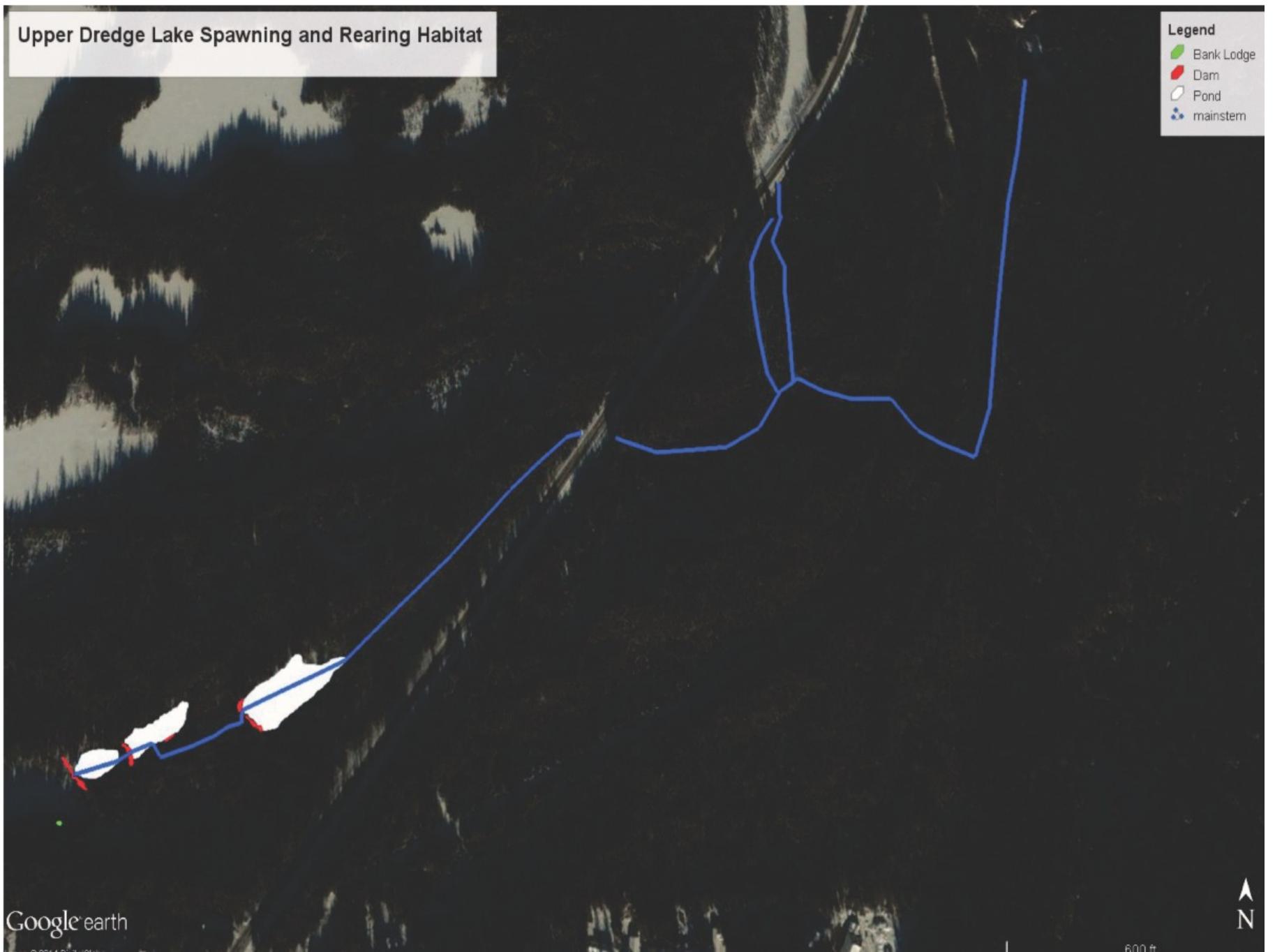


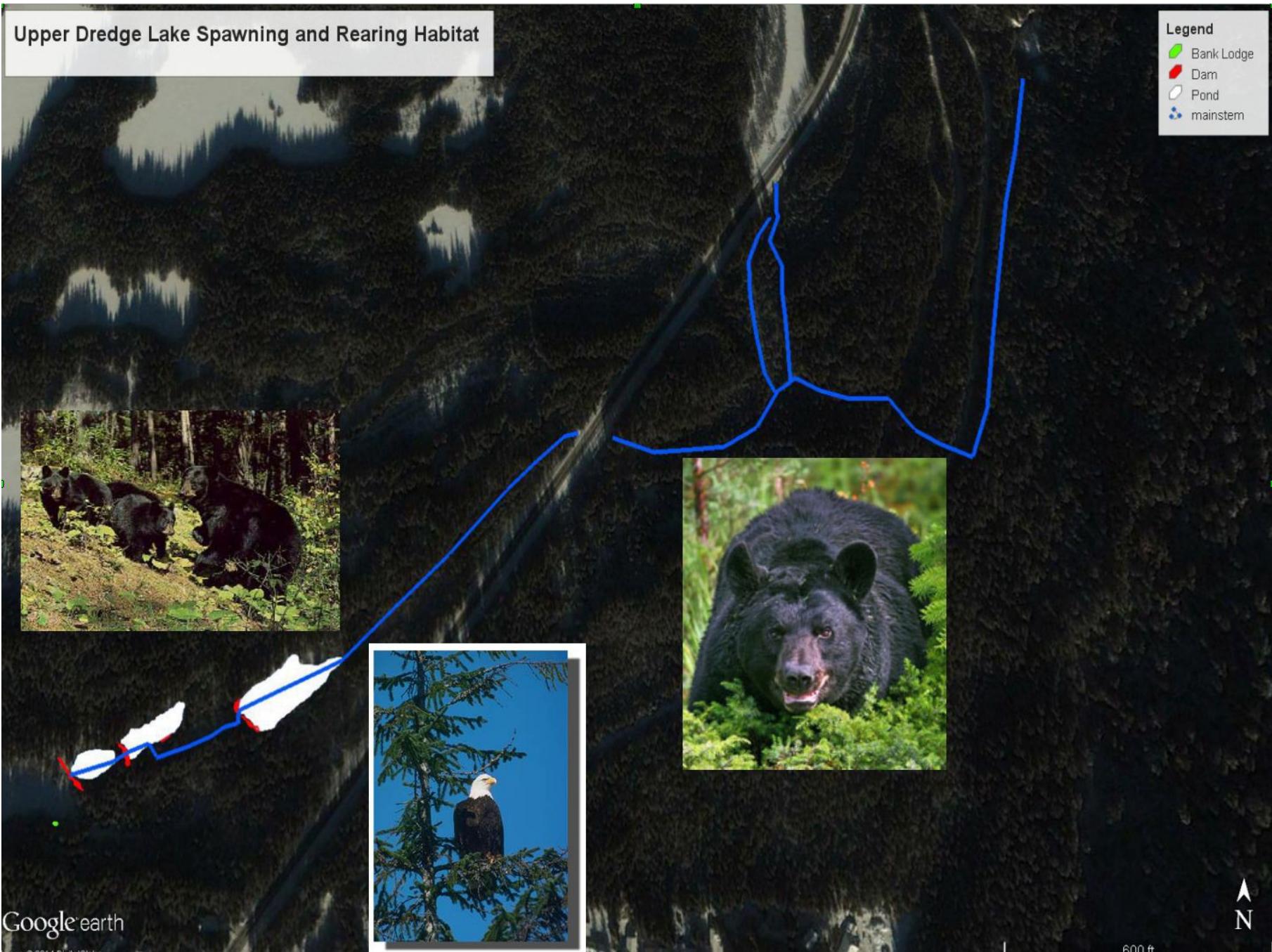
Side Channel Crossbuck Dam





Homestretch Dam









Opening Fish Passage

First!! - Upstream removal of mud, grass, and moss with fork, hoe, and mattock

Second - Using pruning shears, nip sticks back on downstream side to begin to open a V notch

Third - Remove large sticks and/or logs as needed to widen the notch

Fourth - Clear any debris from base of dam under notch



Buried Redd After Dam Destruction

The 2013 Fall Run

Personally saw more than 100
coho pass above *Homestretch Dam*.

Walked the entirety of the mainstem and
Deadtree branch in October and
November.

Encountered spawning coho between lower
ponds and throughout mainstem east of the
road, but not in *Deadtree* branch or
between *Homestretch* and the road.



Redd with eggs, upper reach under Thunder Mountain



Research and Collaboration Suggestions

Smolt trapping on mainstream and deadtree branch (last done in 2011?, and only on Deadtree branch)

Stream insect communities survey (student outreach)

Water quality monitoring in Deadtree branch with a control in mainstem east of powerline trail

Upper Dredge trail beautification project (Scouts?)

Continued Beaver Patrol and USFS cooperation

Consider removal of Crystal Lake outlet stream concrete structures and opening of fish passage to Crystal Lake

Support adoption of the Dredge Creek and Dredge Lake system in the Anadromous Waters Catalog (nominated status?)

Cub Scout Participants

All Five Years

Keleo Luerra, Eli Mead, and Gareth Miller

Past Participants

Gavin and Andy Brown

Clay and Woody Woodgate

Ryan and Ursula Jones

Cory and Natalie Martin

