

FRENCH CREEK RESTORATION: PAST, PRESENT AND FUTURE

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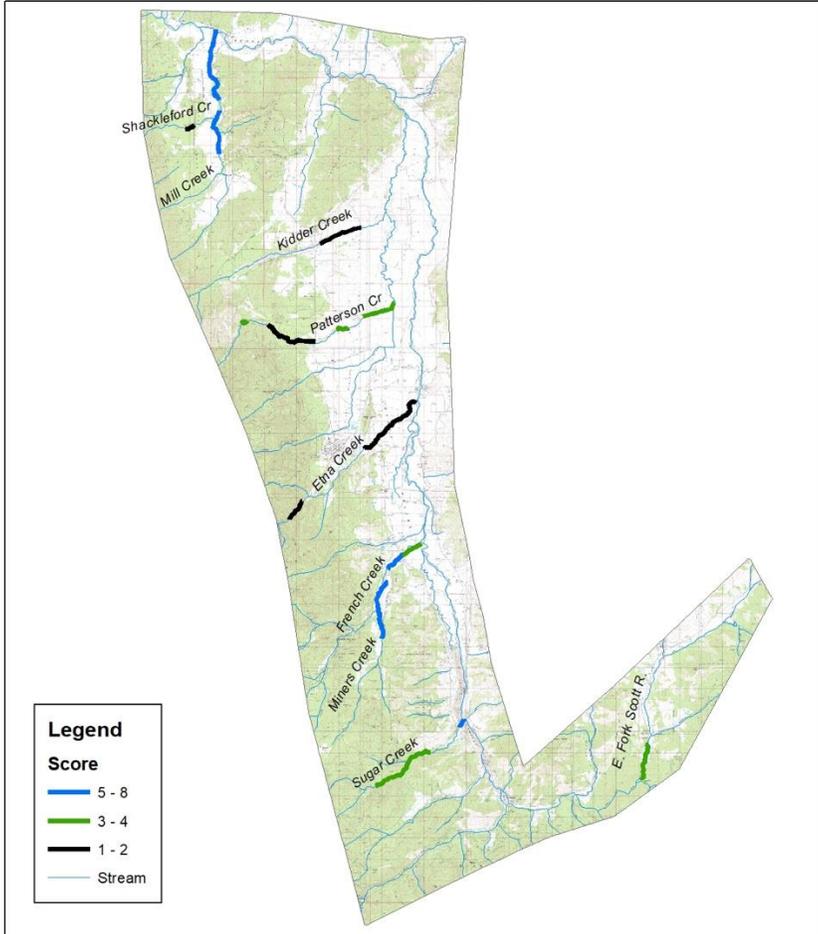


Why Invest in French Creek?



WHY INVEST IN FRENCH CREEK? RESTORING PRIORITY COHO HABITAT IN THE SCOTT RIVER WATERSHED MODELING AND PLANNING REPORT PHASE I

Scott River - Surveyed Reaches with Highest Coho Redd Density
2004 - 2016

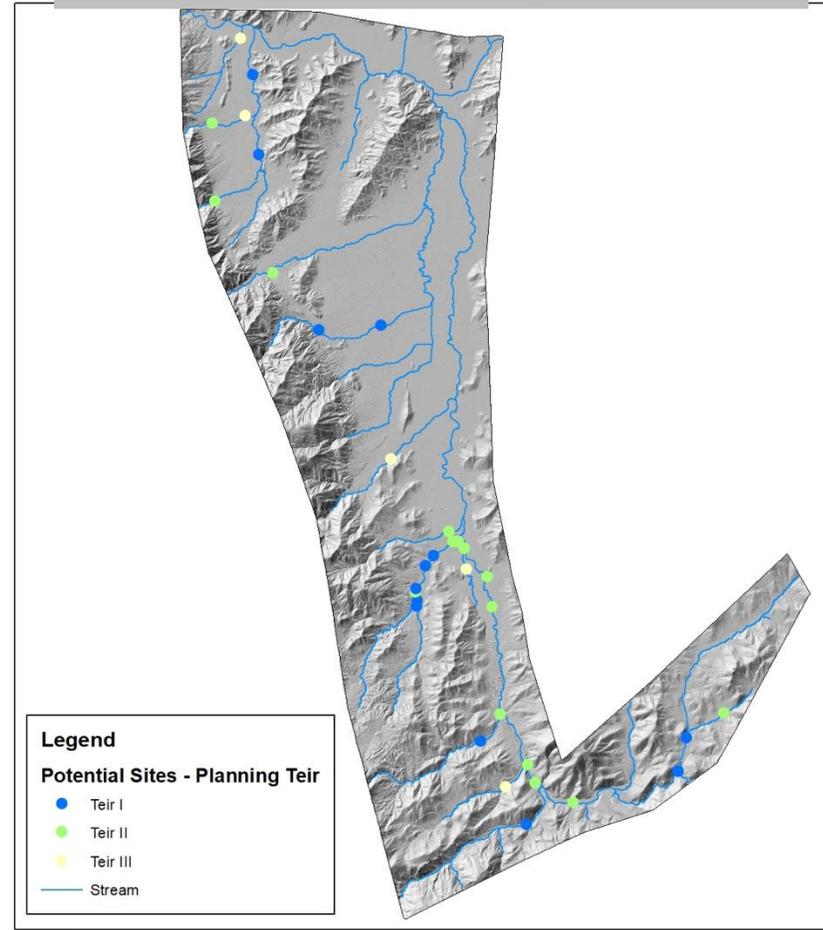


E. Yokel - 9/6/2018



0 1.5 3 6 Miles

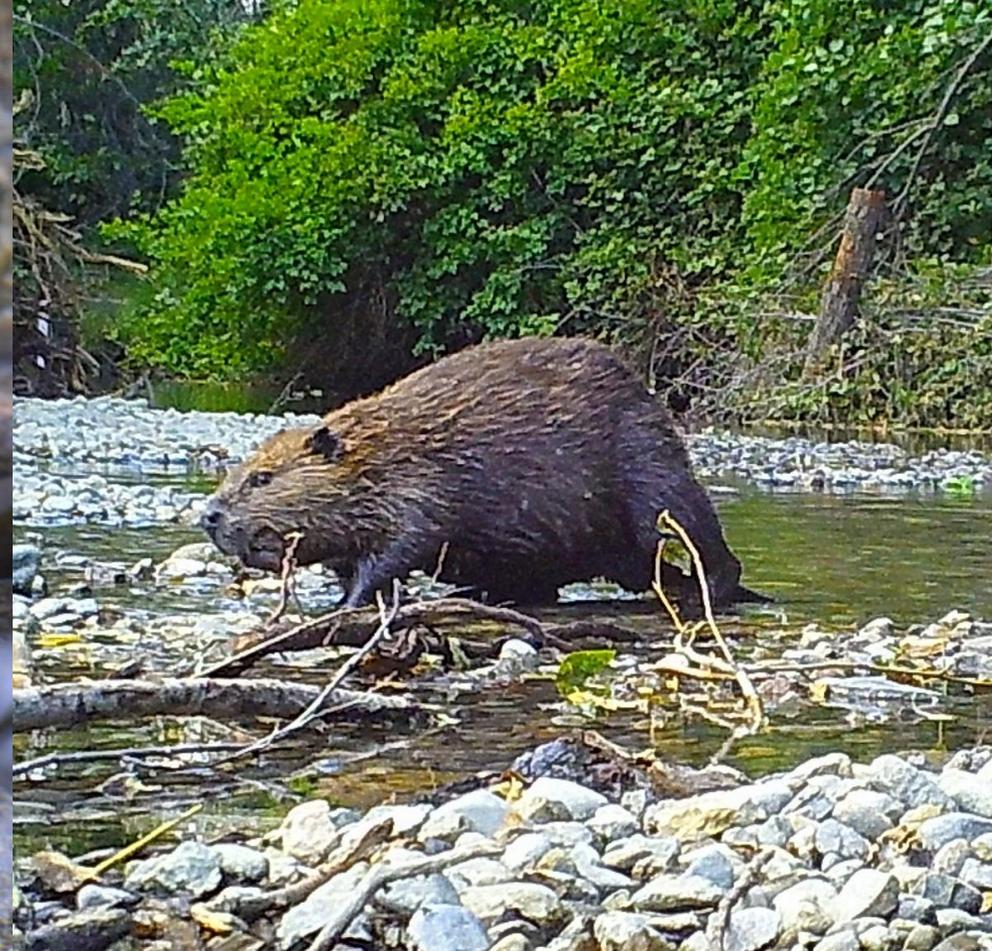
Potential Sites_ Planning Tier



SCOTT RIVER WATERSHED COUNCIL E. Yokel - 9/28/2018



0 1.5 3 6 Miles



WHY INVEST IN FRENCH CREEK?
FISH AND BEAVERS

BEAVER AND COHO

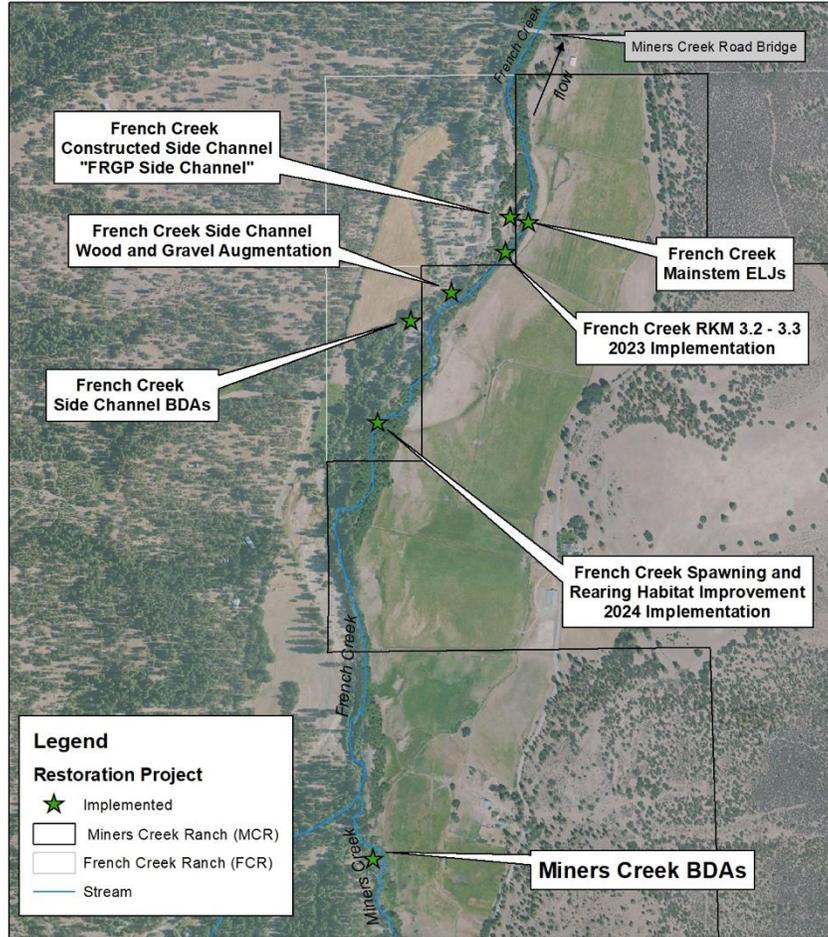


WHY INVEST IN FRENCH CREEK? ECOLOGICAL HOTSPOT .

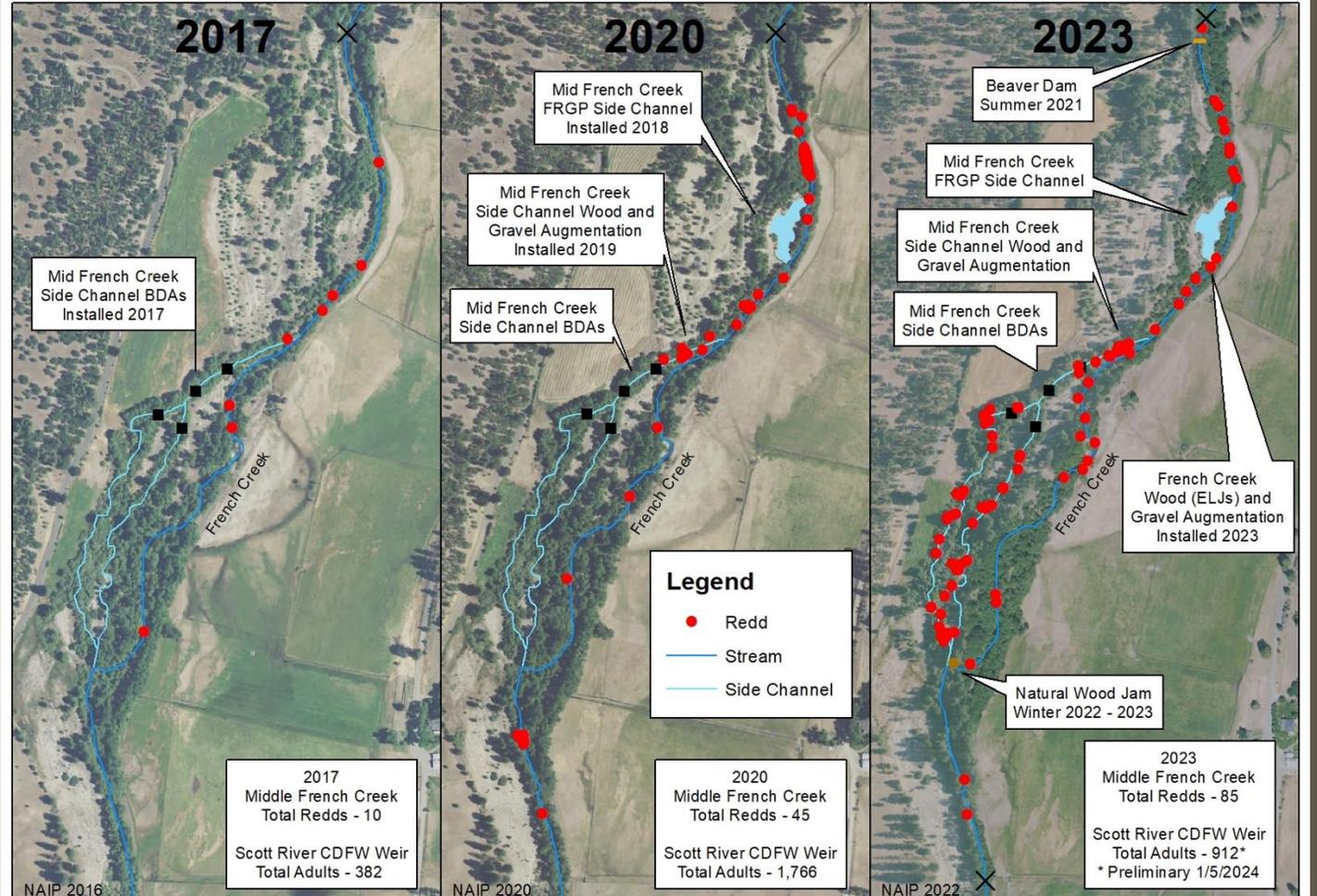


10 YEARS OF SITE-SPECIFIC RESTORATION WITH RESULTS: BIOLOGICAL RESPONSE

Existing Restoration Projects



Middle French Creek - Spawning Ground Surveys - Coho Salmon Redds - 2017, 2020 and 2023



More, bigger
juvenile Coho
after
restoration.

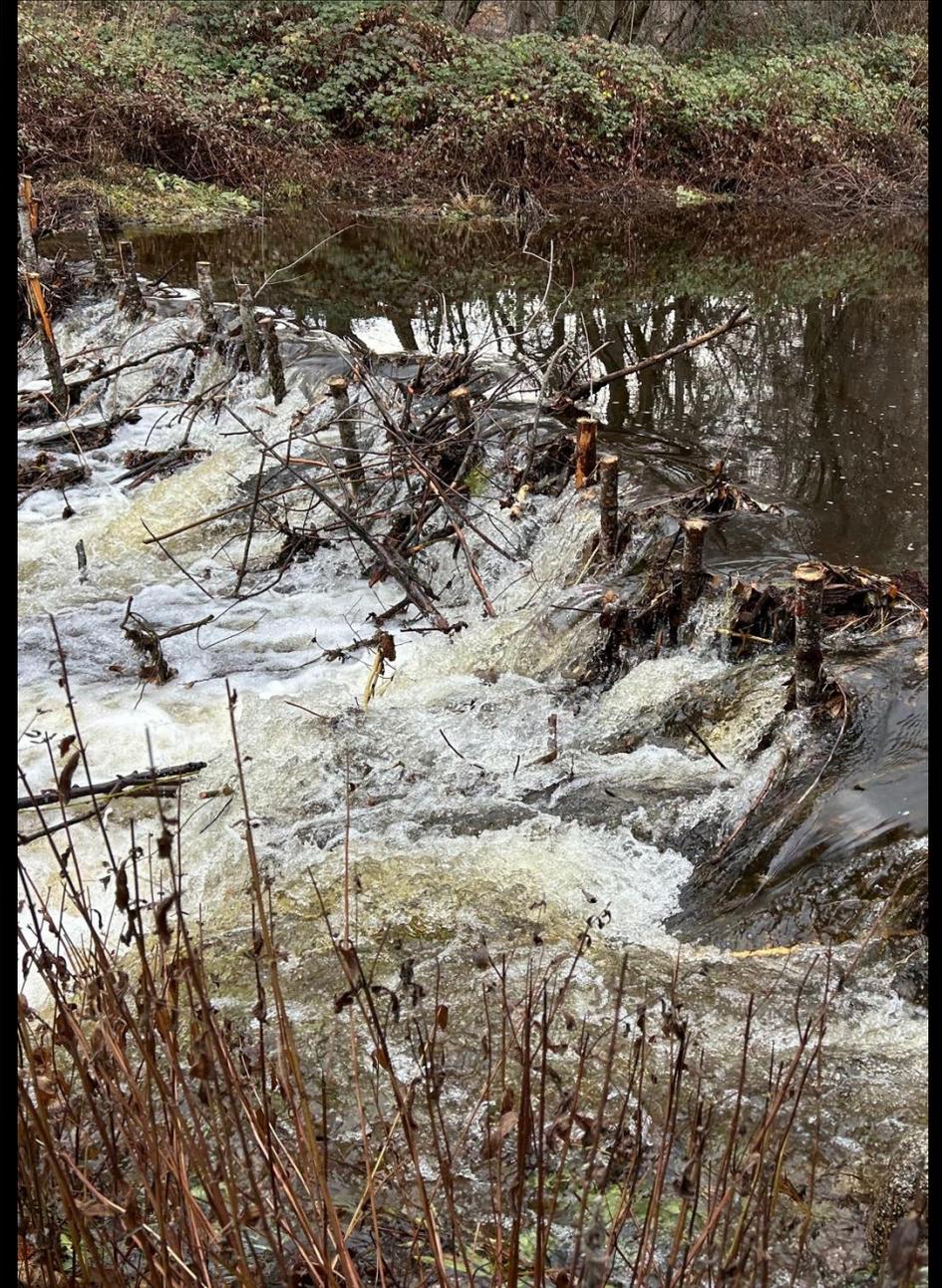




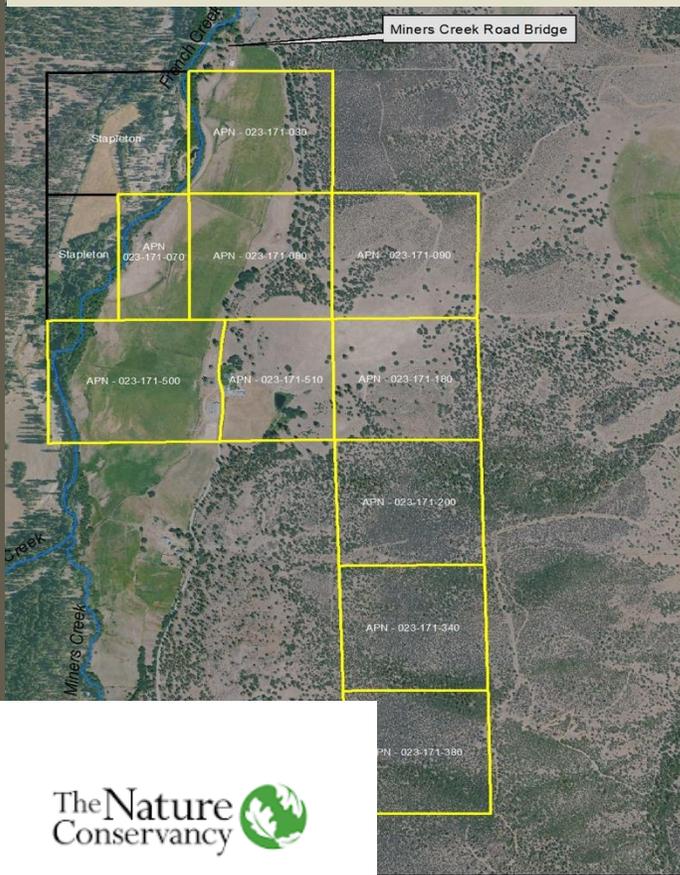
**10 YEARS OF SITE-SPECIFIC
RESTORATION WITH RESULTS:
PHYSICAL PROCESSES.**







2023:TNC. From Site Specific to Reach Scale



The Nature Conservancy 

0 500 1,000 2,000 Feet




SCOTT RIVER
WATERSHED COUNCIL

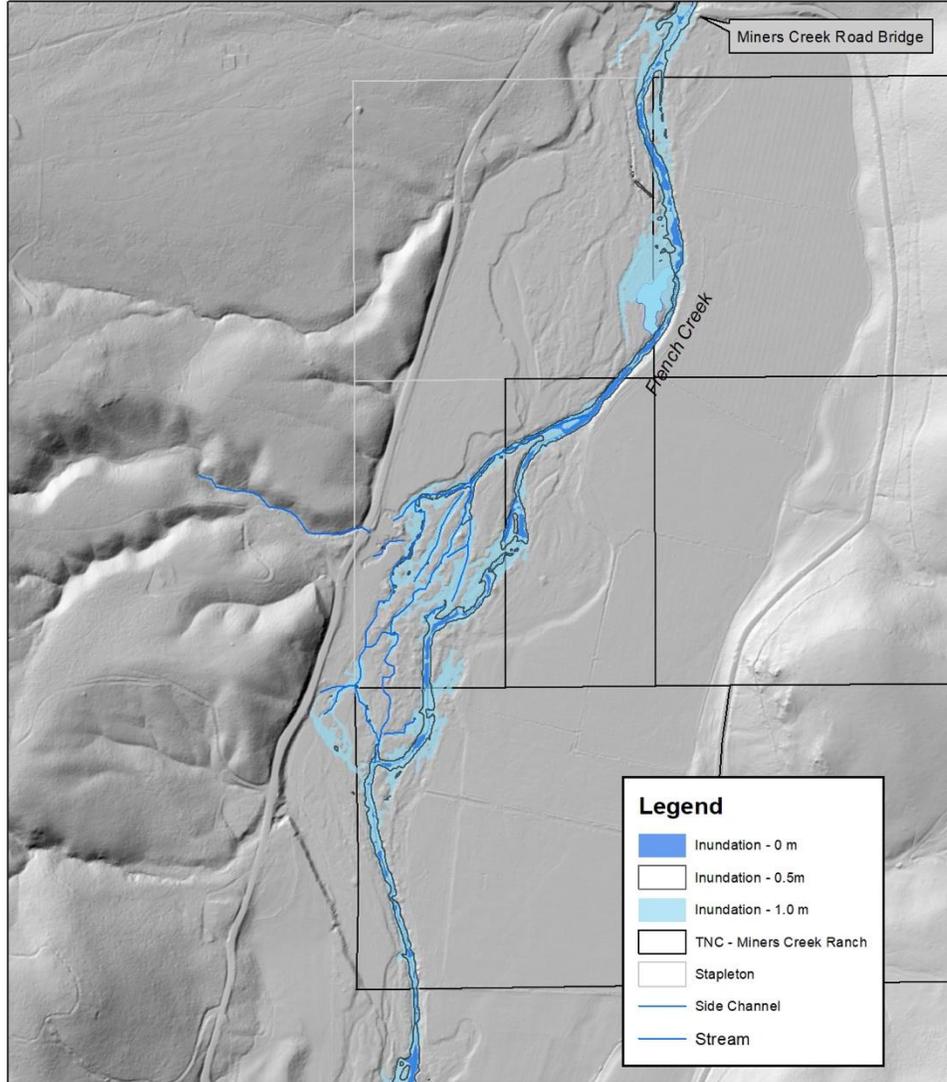


OUR WORKING HYPOTHESIS:
INCREASING HABITAT QUANTITY, QUALITY
AND DIVERSITY WILL INCREASE THE
FRENCH CREEK COHO POPULATION
AND BENEFIT MULTIPLE SPECIES

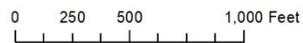
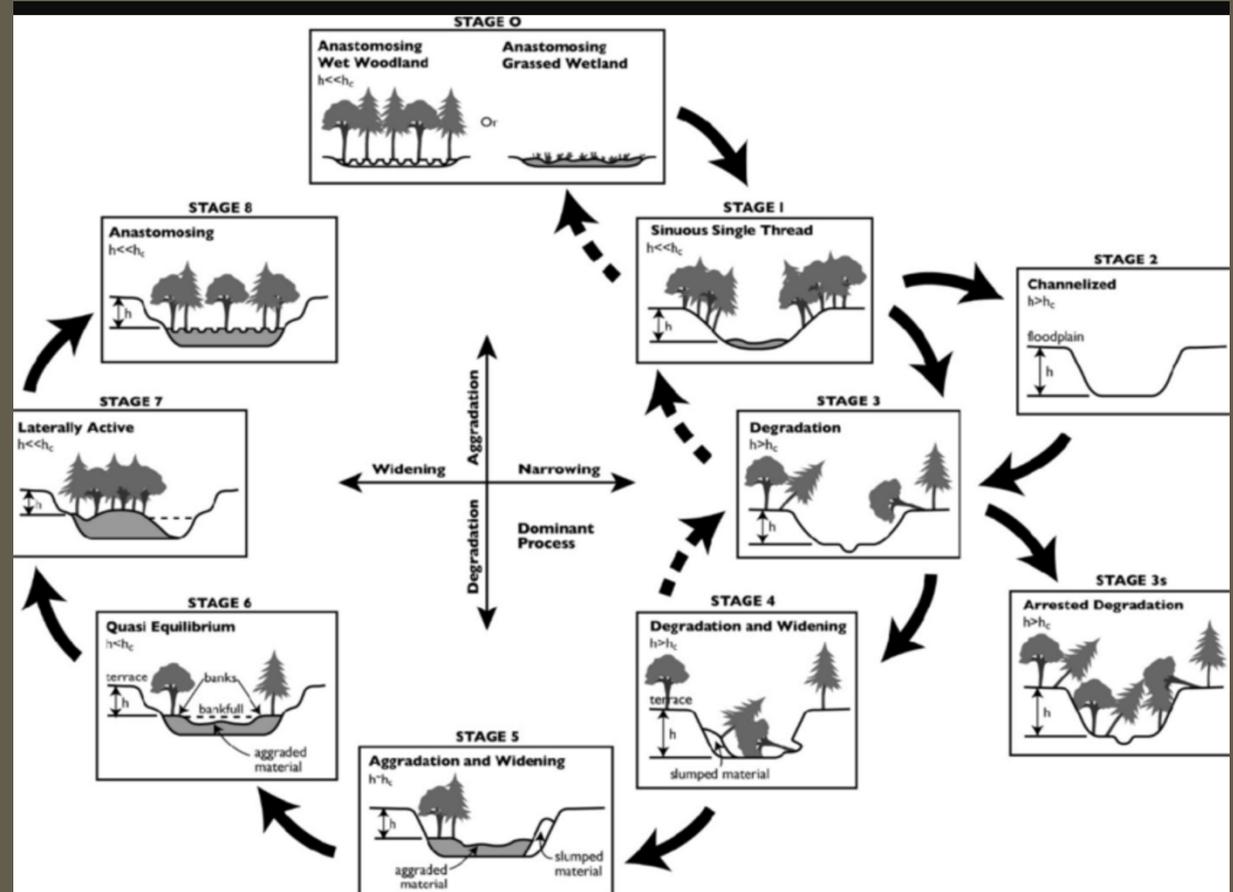
- What's Broke and Needs Fix'n?
 - Channel Confinement
 - Channel Incision
 - Channel Simplification
 - Disconnection from Floodplain
 - Riparian Vegetation Loss
 - Decreased Baseflow
 - Excess Sediment Delivery

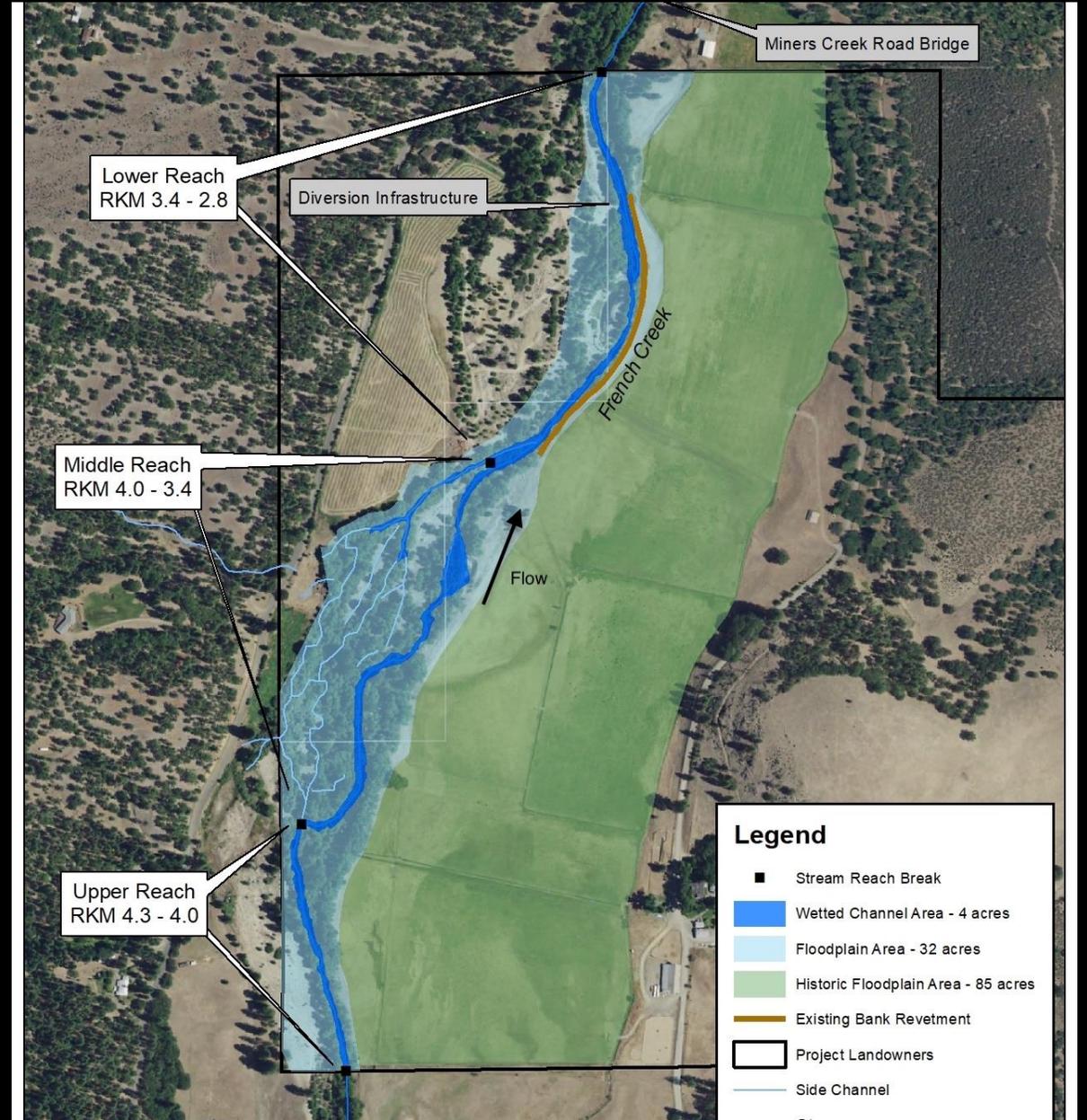


Mid French Creek Restoration Project Lidar Hillshade and Inundation Modeling



What are we thinking?





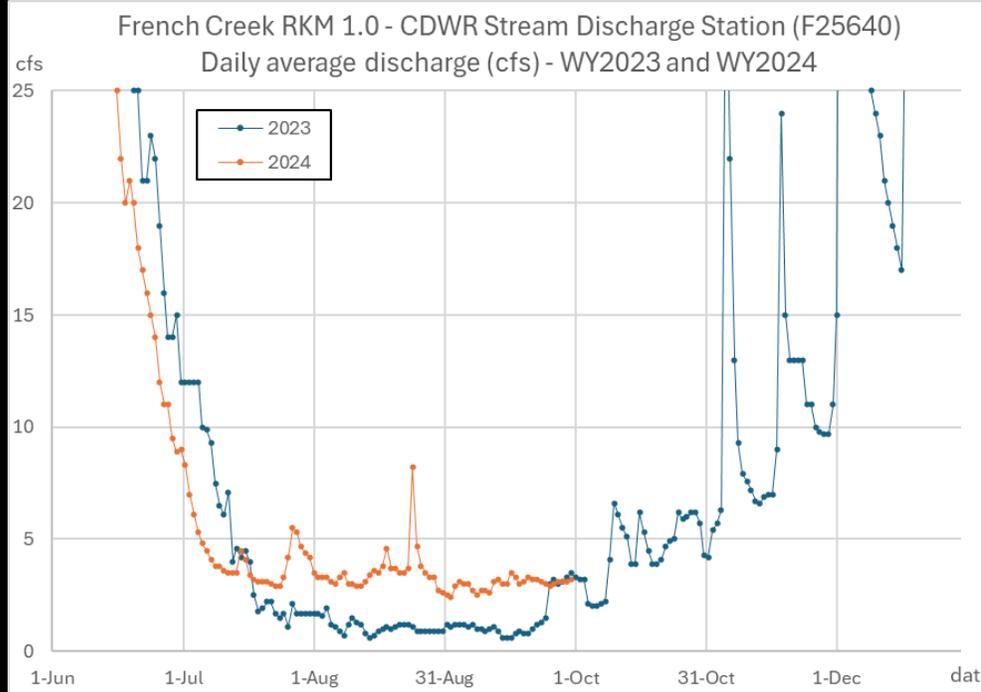


Physical Processes





Water Management



Invasive Species Management



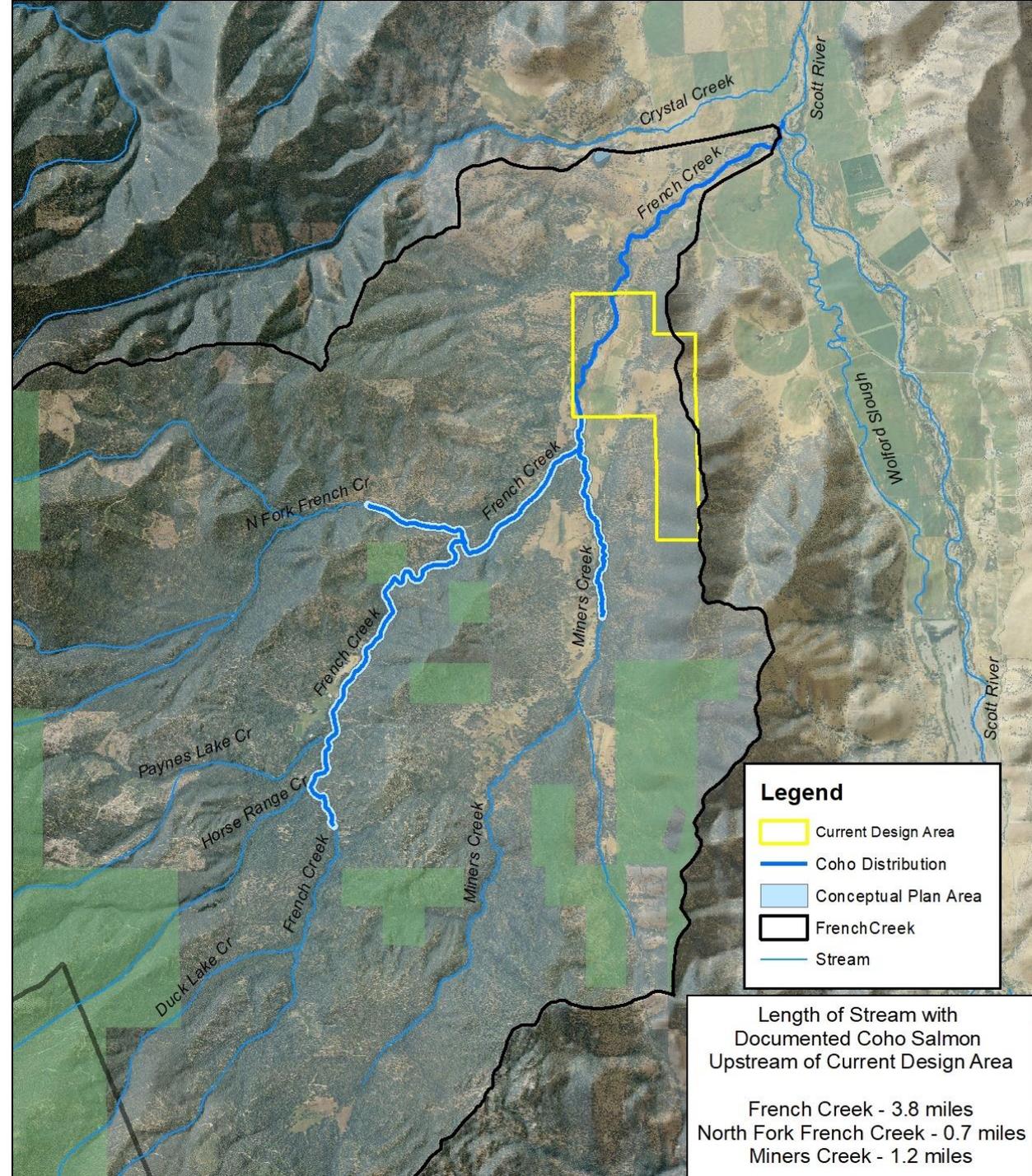
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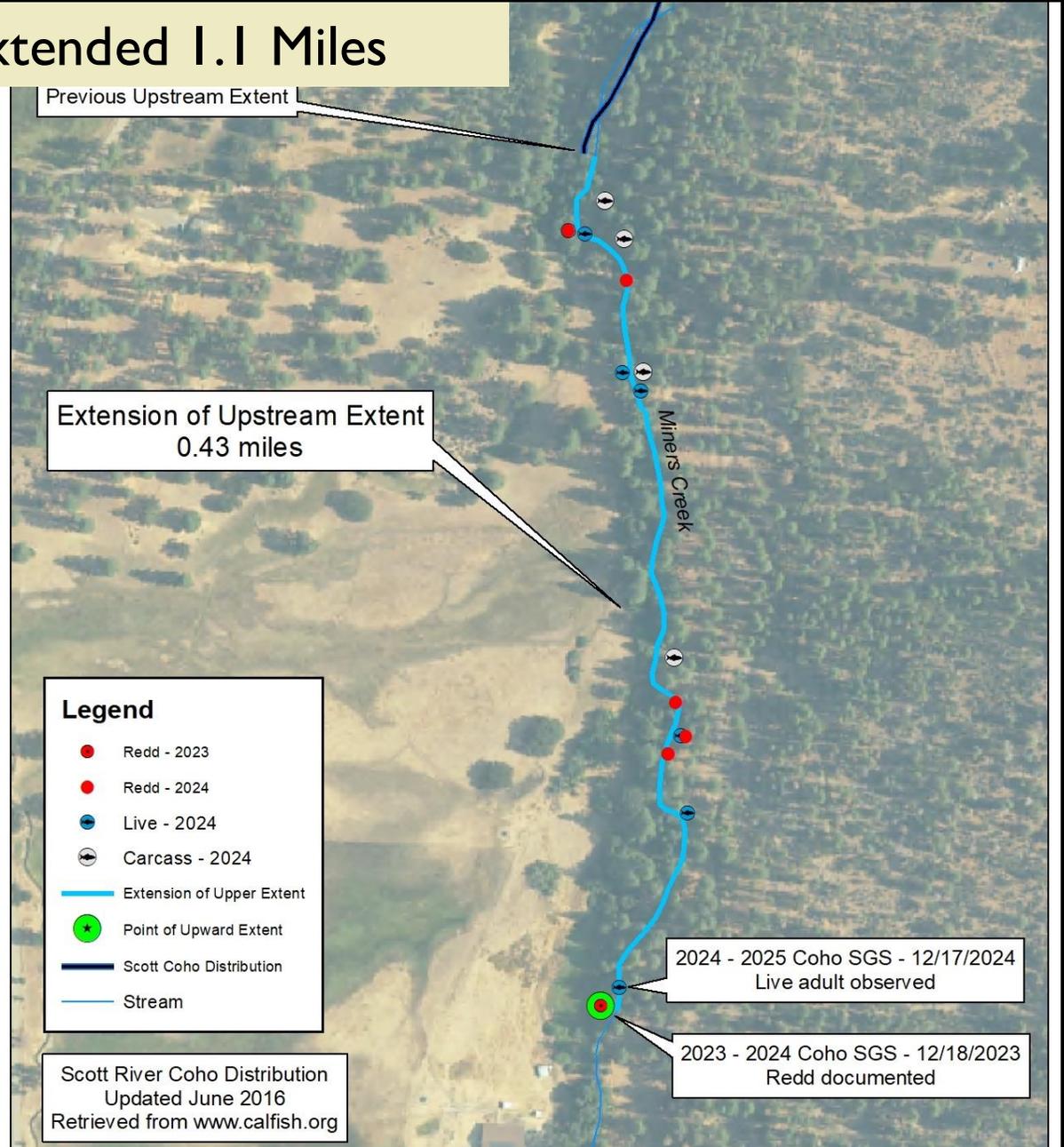
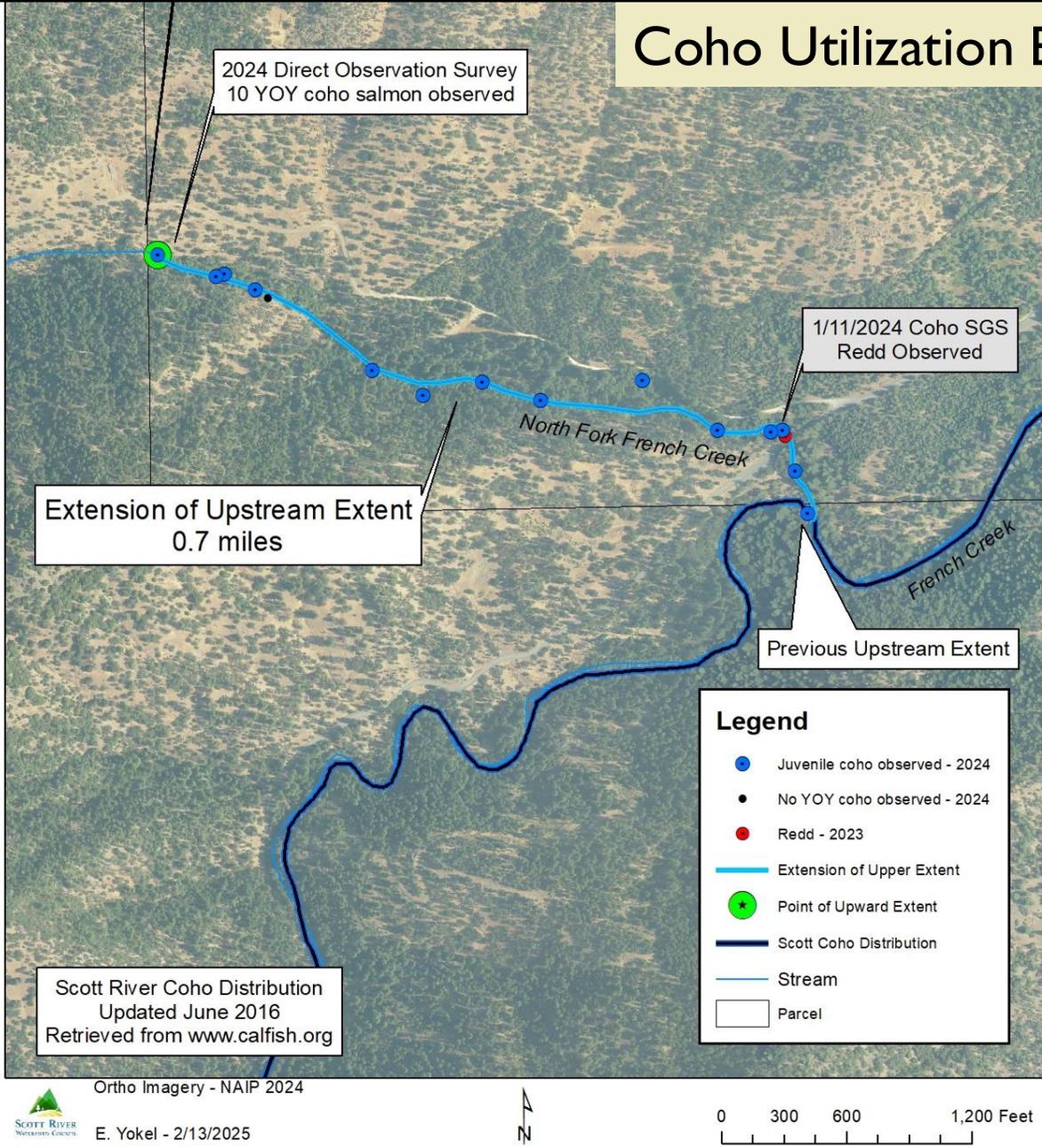
Consider Infrastructure



Ambition:
from reach scale
to watershed scale



Coho Utilization Extended 1.1 Miles



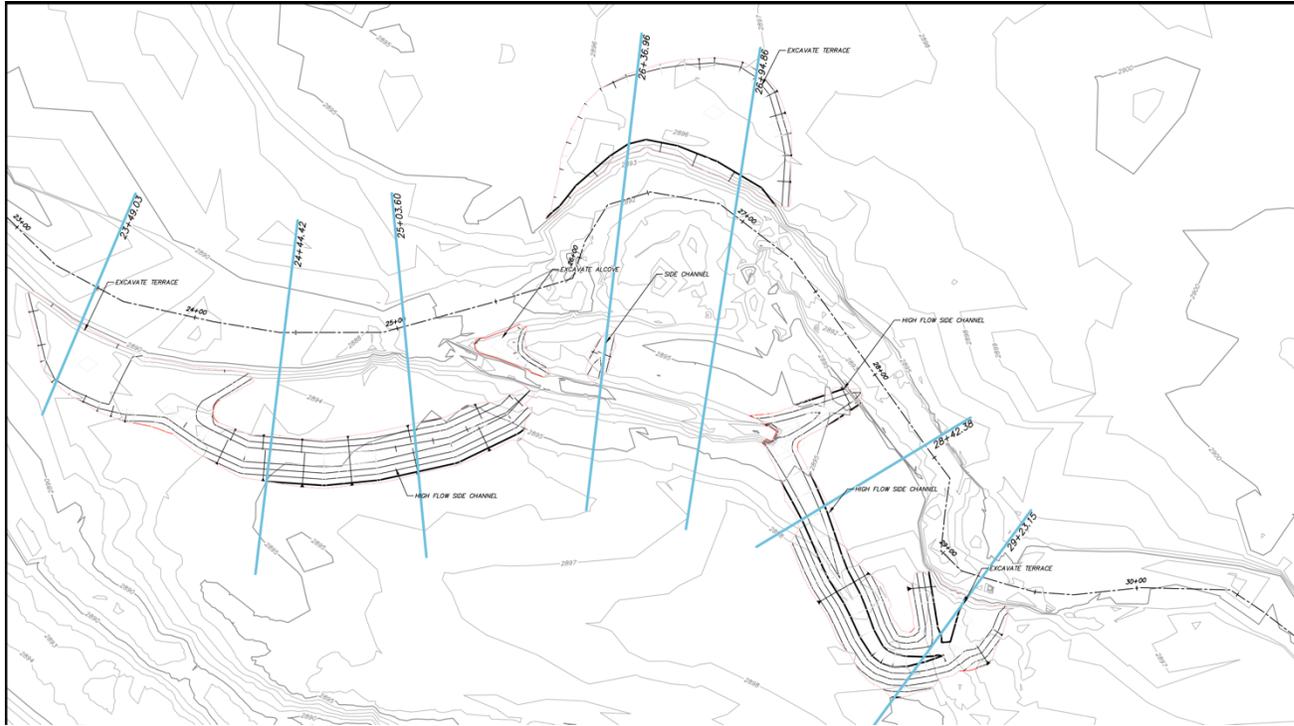


Understand and
address sediment
sources

Forest and fuel management:
drought resilience
reduce fire risk
water yield



WHAT WILL WE DO?



- High Resolution LiDAR
- Hydraulic and Hydrologic Modeling
- Sediment Source and Transport Modeling
- Assessment, Conceptual Plans, Prioritization and Selection of a second site
- Conceptual Plan for Every Landownership
- 100% Designs for Site 2



SCOTT RIVER RECOVERY ACTION PLAN PROJECT (SRRAPP)

Upland management
and Future Climate
Scenarios

Physical
Understanding
Hydrogeomorphic

Economic Impacts:
Cost of Inaction vs.
Future Solutions

Decision Making
Criteria Based on
Community Values

The Scott River's channelization, confinement, and incision have long gone unaddressed due to the overwhelming scale of needed restoration and the social and economic complexities involved. Understanding the interplay between the upland management and overall watershed health is essential.

With mounting climate and drought impacts, regulatory, and economic pressures, the need to develop a strategy for action is more urgent than ever. To sustain both ecosystems and communities, we must develop actionable management plans that balance ecological, regulatory, and financial needs.

With the right approach, we believe solutions are possible.

