



Lagunitas Creek Watershed Habitat Enhancement

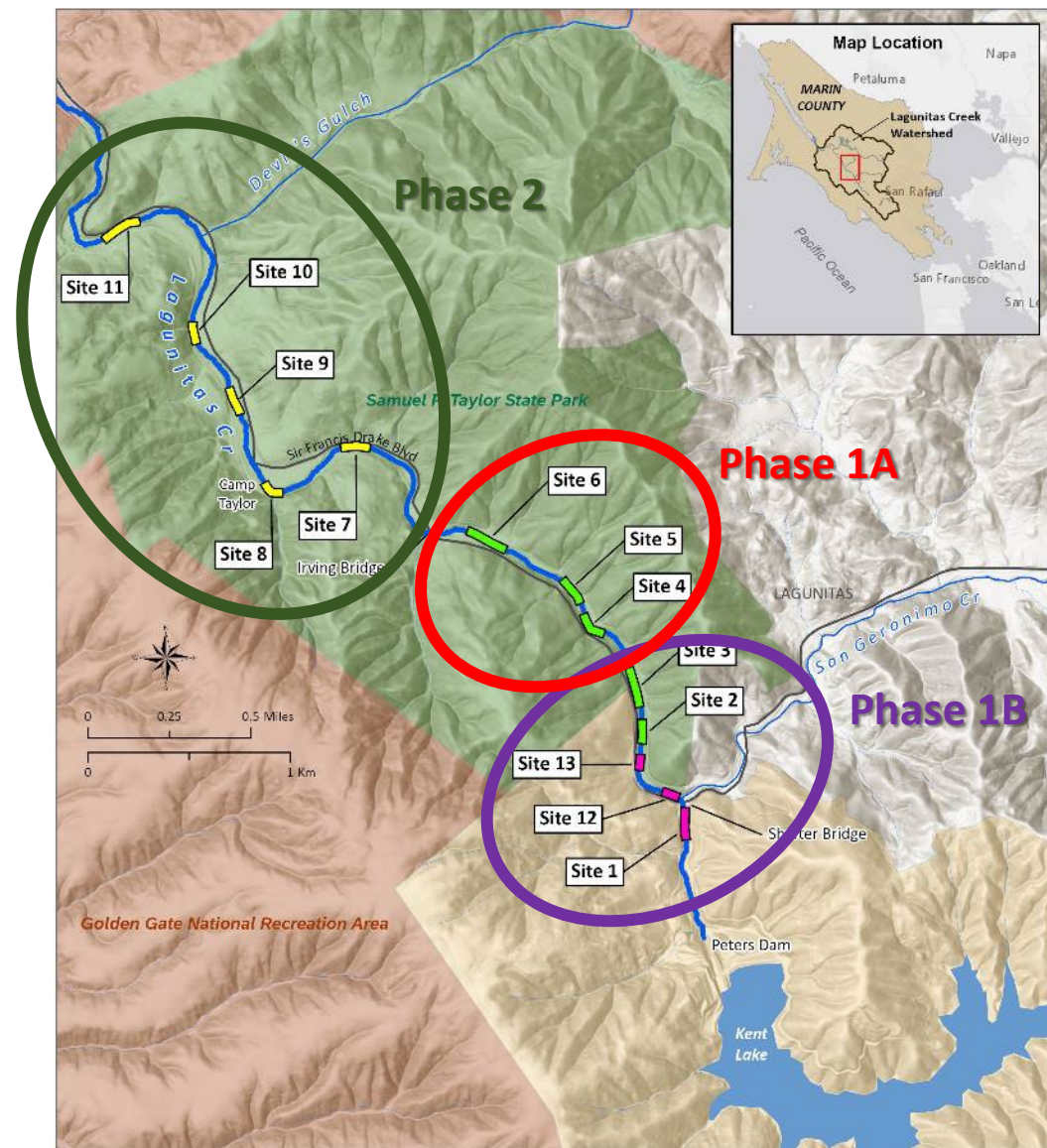
Board of Directors Meeting

May 21, 2024



Project Overview

- The project will enhance habitat in Lagunitas Creek for endangered Coho Salmon and California freshwater shrimp and threatened steelhead by:
 - Enhancing 13 sites encompassing 4,450 linear feet
 - Adding over 270 logs and 11,000 tons of gravel
- **Phase 1**
 - Phase 1A (Sites 4-6) - Construction 2024
 - Phase 1B (Sites 1-3, 12 & 13) - Construction 2025
- **Phase 2**
 - CDFW Fisheries Restoration Grant secured to complete 100% designs and permits 2024-2026



Lagunitas Creek Coho Salmon Habitat Enhancement Project



Project Sites

- Gravel Augmentation (Phase 1)
- Wood Structure and Gravel Installation (Phase 1)
- Wood Structure and Gravel Installation (Phase 2)

Land Ownership

- Marin Water
- California State Parks
- National Park Service

Phase 1A (Sites 4, 5, 6)

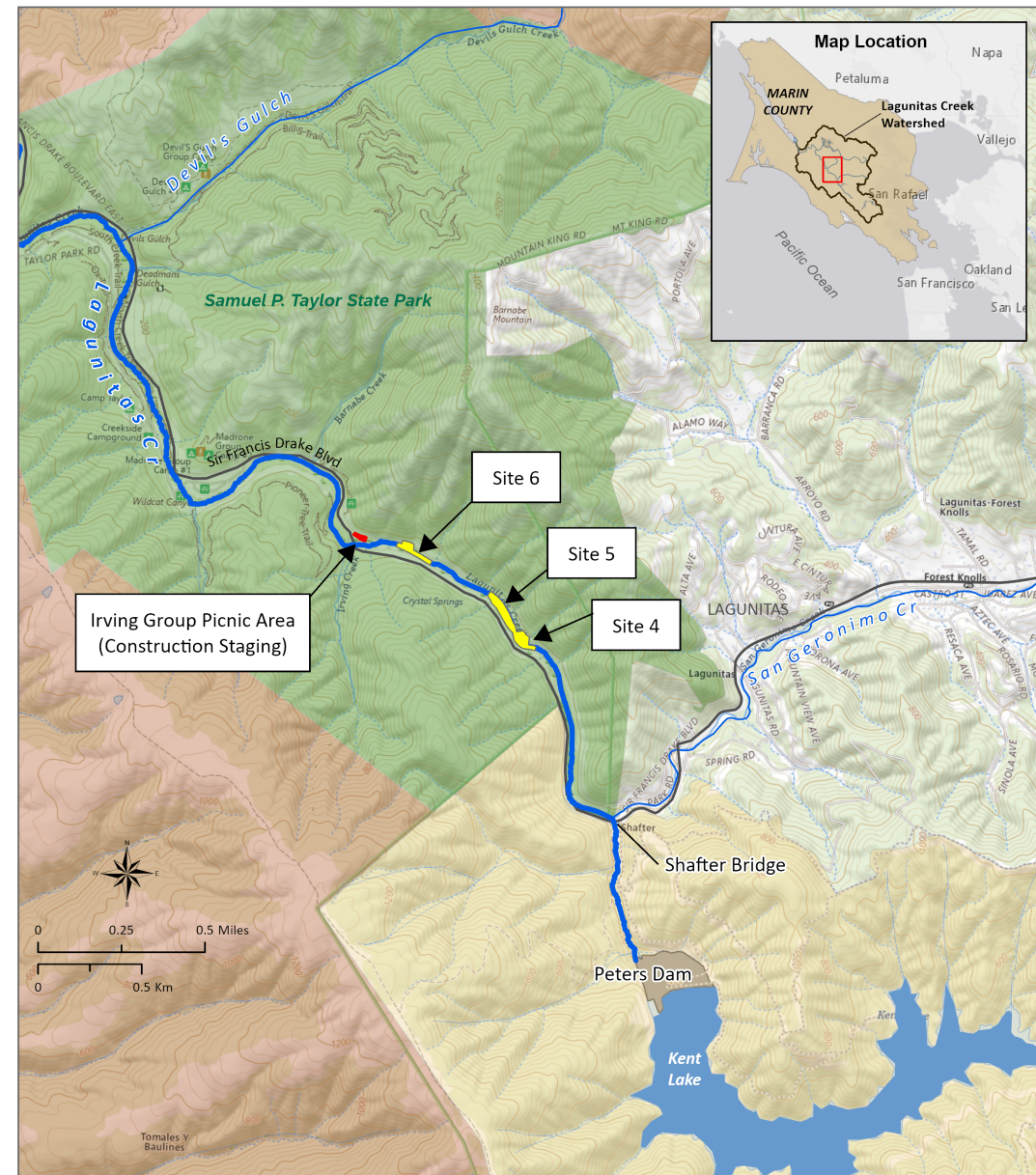
Project Implementation:

Project Advertisement: April 9, 2024
Bid Opening: May 7, 2022
Bids Received: 4
Project Award: May 21, 2024
Estimated Completion: November 22, 2024
Duration: 120 days

Budget:

Engineer's Estimate: \$2,123,800
Contract Award: \$1,978,800*
15% Contingency: \$300,000
Professional Fees: \$1,480,000
District Labor: \$200,000
Total Budget: \$3,958,000

*Hanford Applied Restoration & Conservation submitted the lowest responsive and responsible bid



Lagunitas Creek Coho Salmon Habitat Enhancement Project (Phase 1A)



Land Ownership

- Marin Water
- California State Parks
- National Park Service

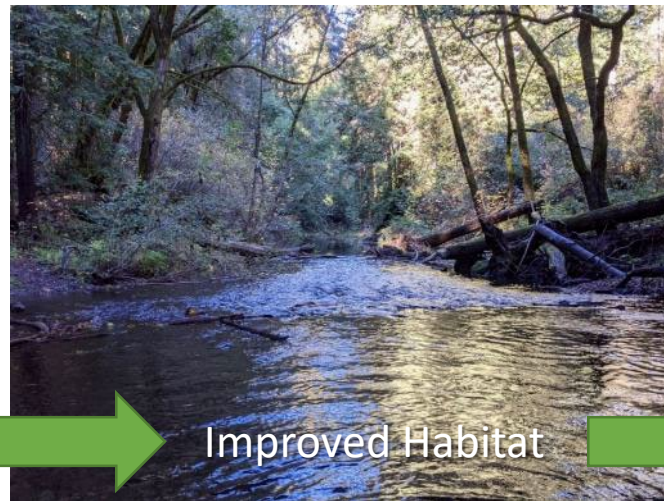
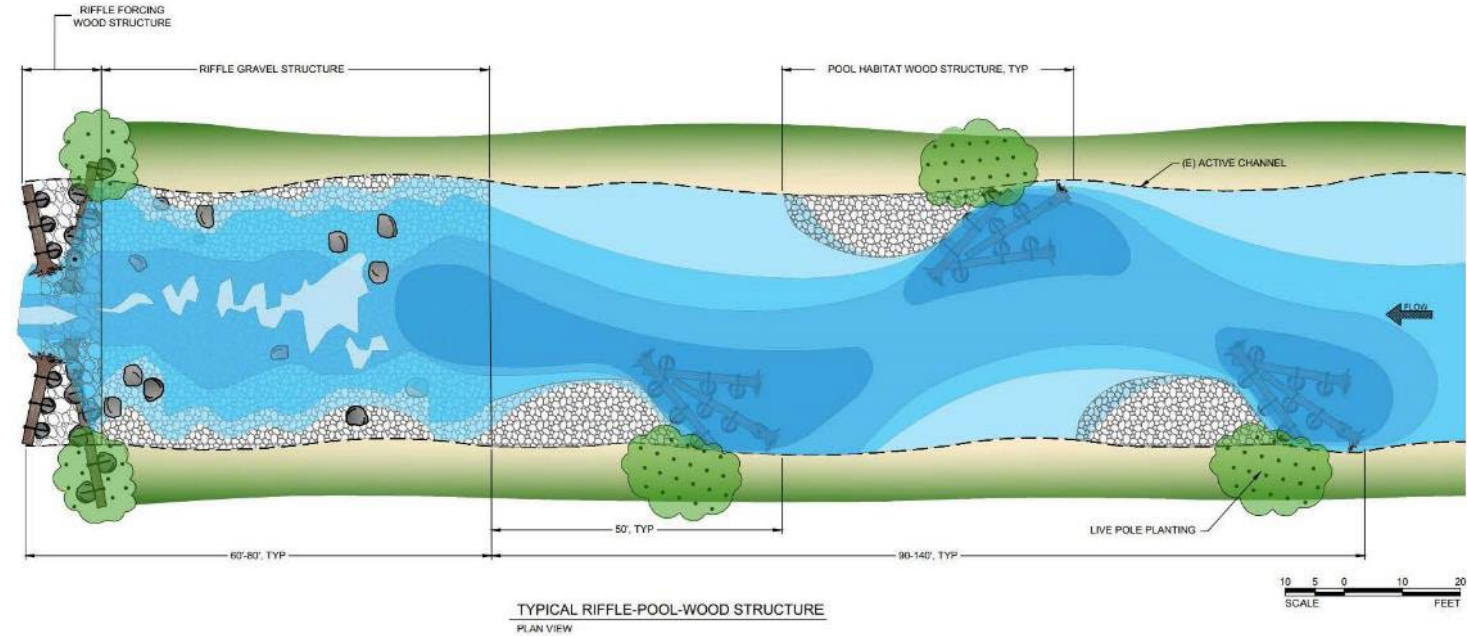
Restoration Site

- Construction Staging Area
- Lagunitas Creek

Design Approach

Add log and boulder structures to:

- Break up shallow homogenous glides
- Create deeper, slower pools for rearing
- Capture incoming gravels for spawning
- Improve insect (fish food) production



Recommendations

- Award contract No. 2022 to Hanford ARC for Phase 1A implementation
- Amendment No.1 ESA MA 5884
 - \$1,480,000 Phase I construction management, environmental compliance, and engineering support
 - \$599,689 Phase II (sites 7, 8, 9, 10, & 11) 100% designs and construction specifications
- Accept \$599,689 from the CDFW Fisheries Restoration Grant Program for Phase 2 design and permitting

