BUTANO CREEK FLOODPLAIN RESTORATION PROJECT

Irina Kogan San Mateo Resource Conservation District

Pescadero Municipal Advisory Council Meeting
April 11, 2017



PROJECT AREA

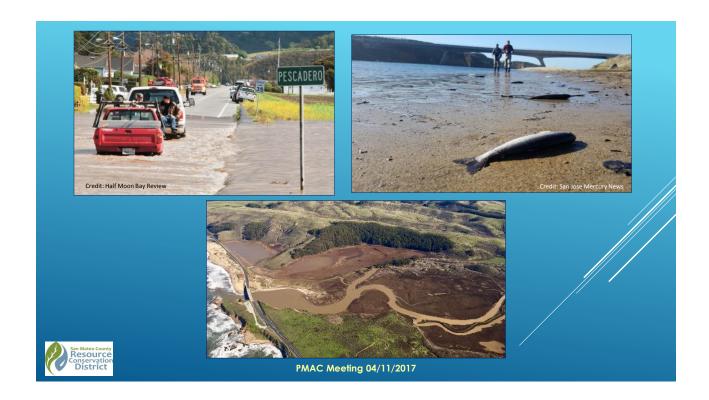
<u>Landowner</u>: Peninsula Open Space Trust, Butano Farms Property

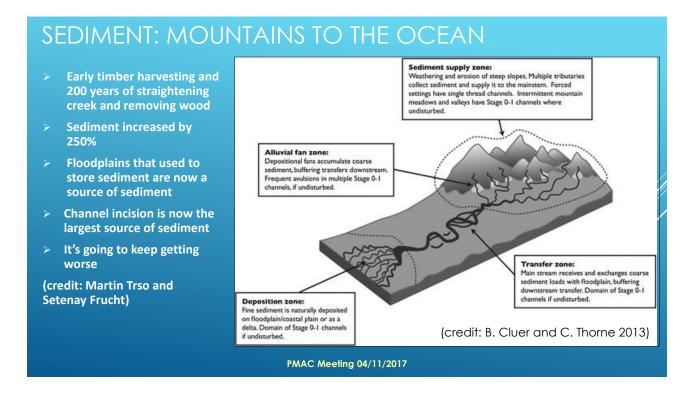
Funders to RCD:

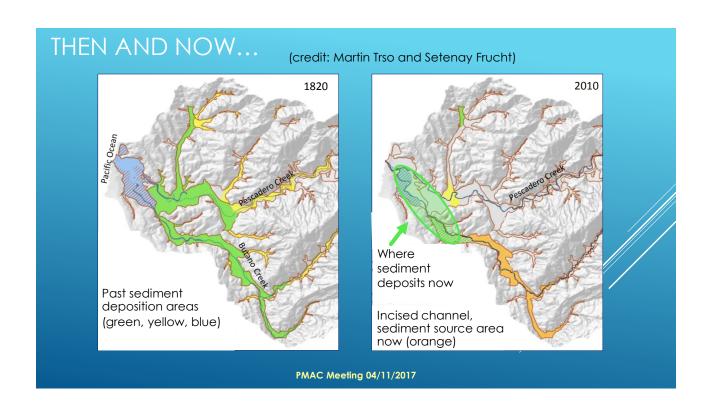
- CA Department of Water Resources
- CA Coastal Conservancy
- US Fish and Wildlife Service
- POST













PROJECT PURPOSE

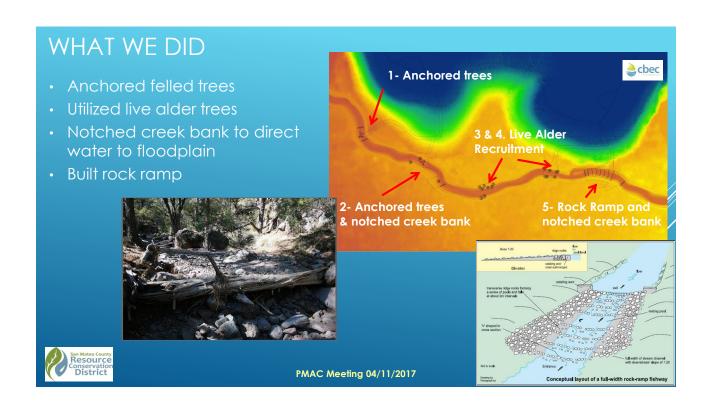
- Raise the creek bed to restore flooding of historic 100 acre floodplain
- Store 150,000 tons of sediment over 10 years
- Restore habitat







SALMONID RESTORATION FEDERATION CONFERENCE 2017



USING LIVE ALDERS





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INSTALLING TREES

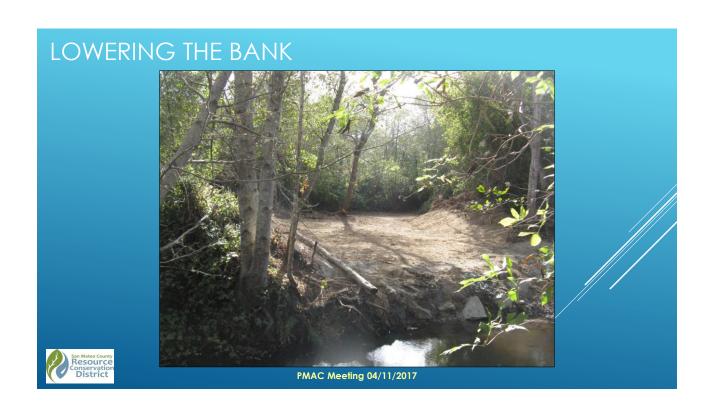


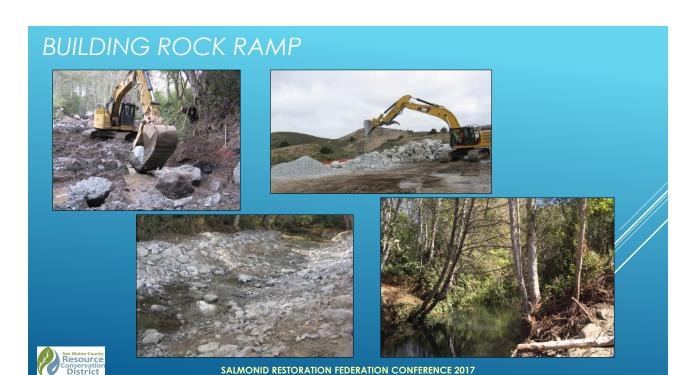




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INSTALLING TREES Resource Conservation District







STORMY WINTER VIDEO

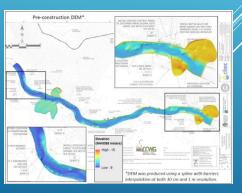




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POST-CONSTRUCTION MONITORING

- ► Measure sediment accumulation on connector channels and floodplains
- ► Map topography of creek before and immediately after construction as well as after this winter wet season
- ► Time-lapse video of flood events
- ► Measure creek water elevation
- ► Map and quantify fish habitat features





FREQUENTLY ASKED QUESTIONS

- How does this compare to dredging?
 - ► ~100,000 cy sediment stored over 10 yrs (plus more with time) vs. 45,000 cy (1 time and will fill in)
- 2. What if the wood breaks free and goes downstream?
 - ▶ The large wood features are holding back a lot of wood from going downstream
 - ▶ It is anchored for a 25 year event. Bigger storms will have many more trees down in comparison to what was installed
- 3. How does this interact with a downstream dredge?
 - ▶ It will keep the channel open longer but this one project is not enough.



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