



H.T. HARVEY & ASSOCIATES

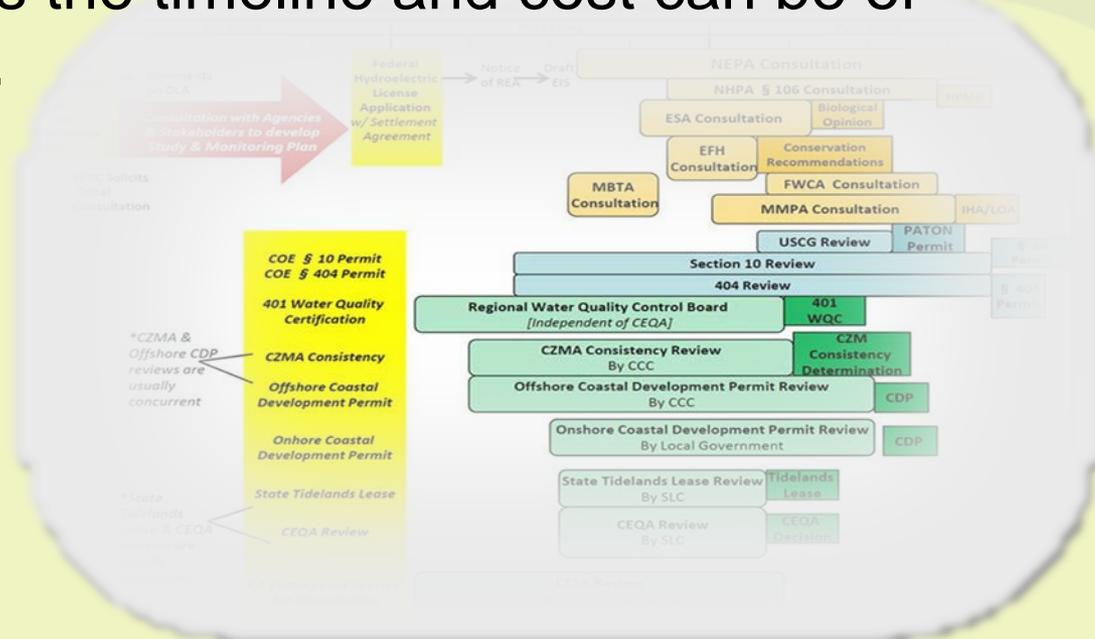
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CALIFORNIA FISH PASSAGE FORUM

17 September 2014



- Can be very onerous and must be conducted before project can start
- Roadmap for permitting depends on many factors
 - Project proponent (FERC, State Agency, Private landowner)
 - how the project is funded (Federal, State, private funds)
- Permit phasing/tiering should be planned out as part of your project as the timeline and cost can be of consequence.



- Environmental analysis of project and project alternatives
 - Support/requirement for other permitting processes





- **Federal**
 - USACE 404/10 [dredge/fill discharge/Rivers & Harbors Act]
 - Consultations with NMFS, USFWS, SHPO [ESA, EFH]
- **State**
 - RWQCB 401 [water quality]
 - CDFG 1600 Streambed Alteration Agreement
 - CDFG 2081 Incidental Take Permit and/or Consistency Determination
 - California Coastal Commission CDP
 - State Lands Commission
 - Caltrans Encroachment Permit
- **County**
 - Humboldt County CDP
 - Humboldt County Grading and Encroachment Permits

Riverside Ranch: listed plants/animals



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Species	Status Listing
Tidewater Goby (<i>Eucyclogobius newberryi</i>)	Endangered (Federal)
Longfin Smelt (<i>Spirinchus thaleichthys</i>)	Threatened (State)
Coho salmon (<i>Onchorhynchus kisutch</i>)	Threatened (State/Federal)
Northern Red-Legged Frog (<i>Rana aurora</i>)	California SSC
Lyngbye's sedge (<i>Carex lyngbyei</i>)	CNPS
Humboldt Bay Owl's Clover (<i>Castilleja ambigua</i> ssp. <i>Humboldtiensis</i>)	California SSC, CNPS
Eelgrass (<i>Zostera marina</i>)	Essential Fish Habitat
Yellow Warbler (<i>Dendroica petechia</i>)	California SSC
Black-capped Chickadee (<i>Poecile atricapillus</i>)	California SSC
Vaux's Swift (<i>Chaetura vauxi</i>)	California SSC
White-tailed Kite (<i>Elanus leucurus</i>)	California Fully Protected
Northern Harrier (<i>Circus cyaneus</i>)	California SSC
Red-tailed Hawk (<i>Buteo jamaicensis</i>)	California Fully Protected
Willow Fly-Catcher (<i>Empidonax traillii</i>)	Endangered (State)



Riverside Ranch/Salt River restoration



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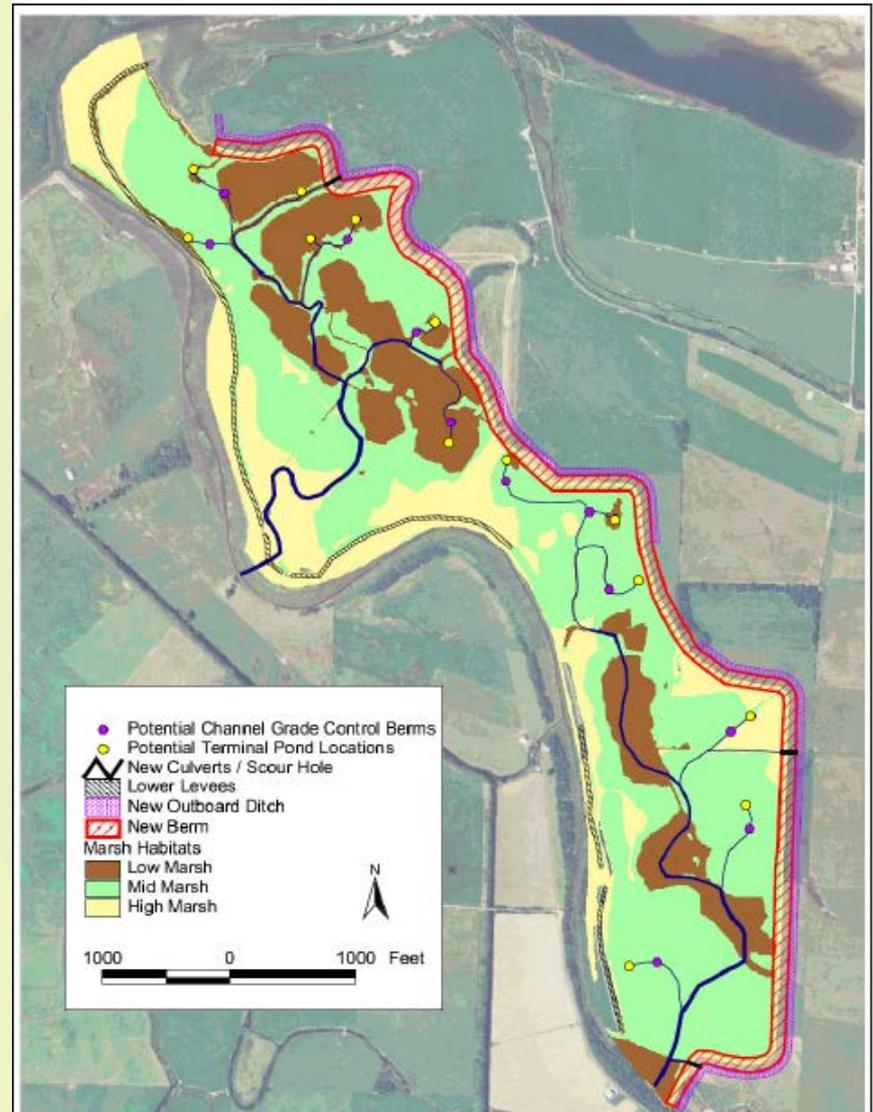


Riverside Ranch restoration



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- Programmatic ESA permitting on private lands via General Conservation Plan
 - <http://www.greateratlantic.fisheries.noaa.gov/protected/altsalmon/conservation/>

