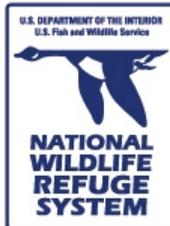


# Sonoma Creek Enhancement Project

Policy Background Regarding Minor Amounts of Fill for Habitat Purposes

BCDC Bay Fill Working Group Committee Meeting

February 18, 2016



# Outline

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- Project Site History and Brief Project Overview
- Sonoma Creek Project Transition Ramp Description, Need and Purposes
- Sonoma Creek Transition Ramp Permitting Decision and Discussion

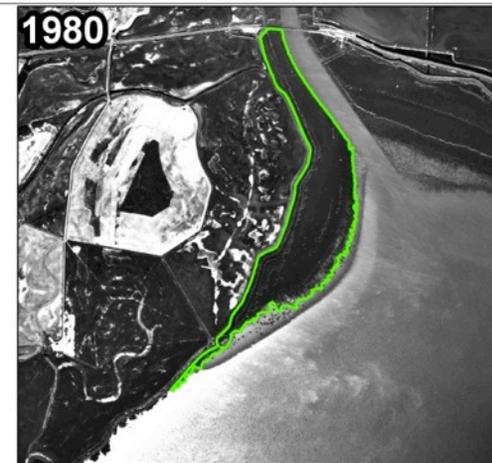
# Project Site Location



# Project Site Location

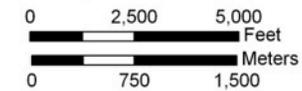


# A Centennial Marsh



Scale applies to all map boxes

1:30,000 (1" = 2,500' at letter layout)



Data sources: HJW (photos: 1966 - 1989); NAIP (photo: 2005);  
WWR (data: 2007)  
Produced by WWR, March 2007  
GIS/cartography by Dan Gillenwater  
Map file: Marsh-development\_1123\_2007-0307dg.mxd

 Boundary of marsh vegetation



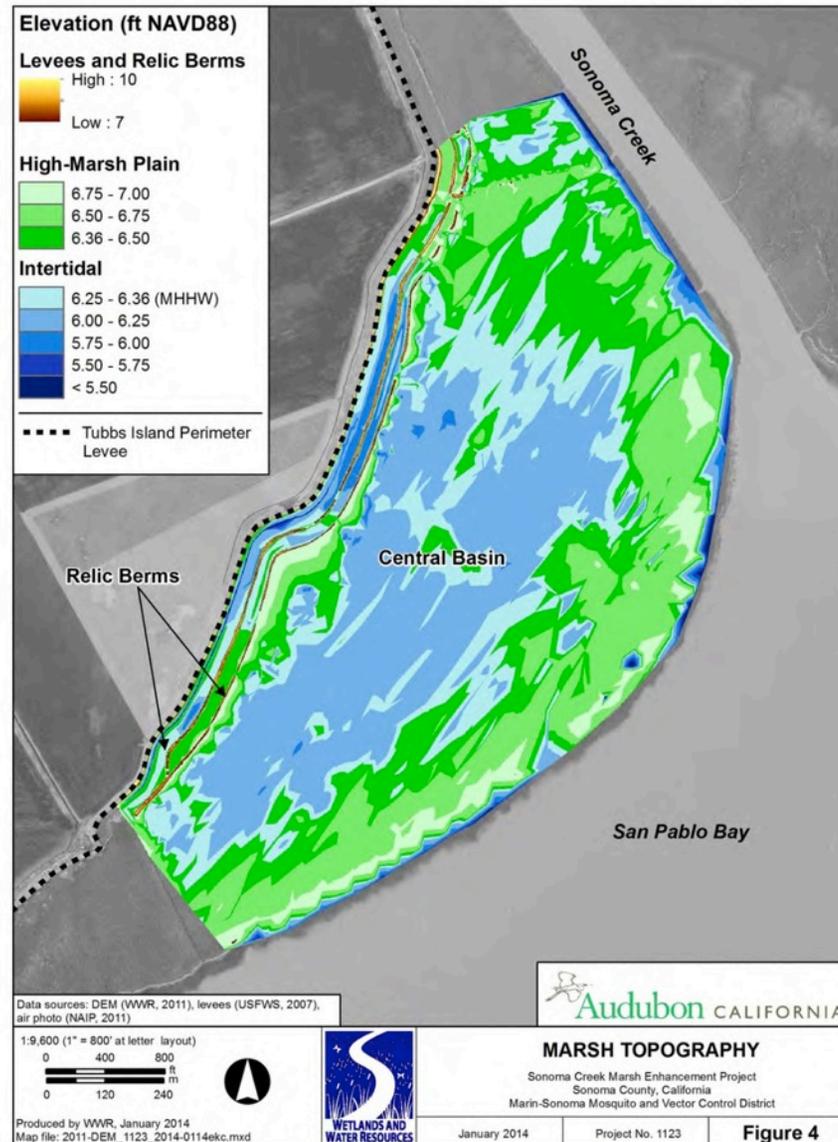
**MARSH DEVELOPMENT: 1966 - 2005**

USFWS San Pablo Bay NWR  
Sonoma County, California

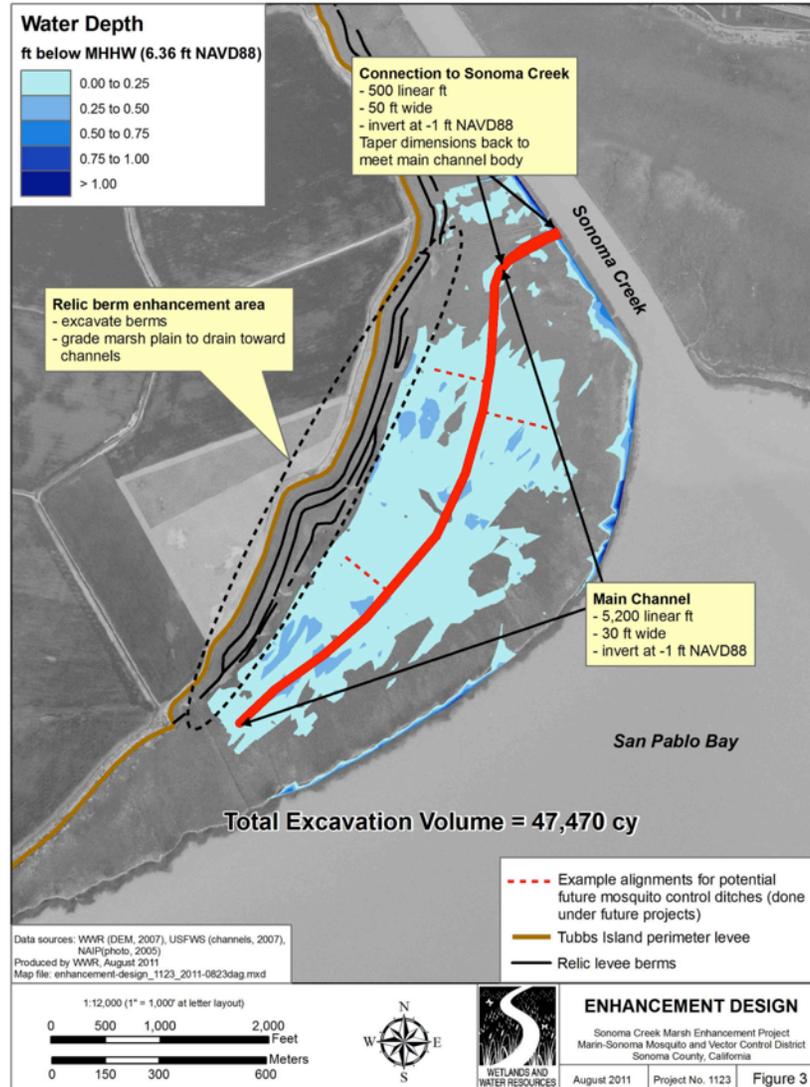
March 2007

Project No. 1123

# Project Site Topography

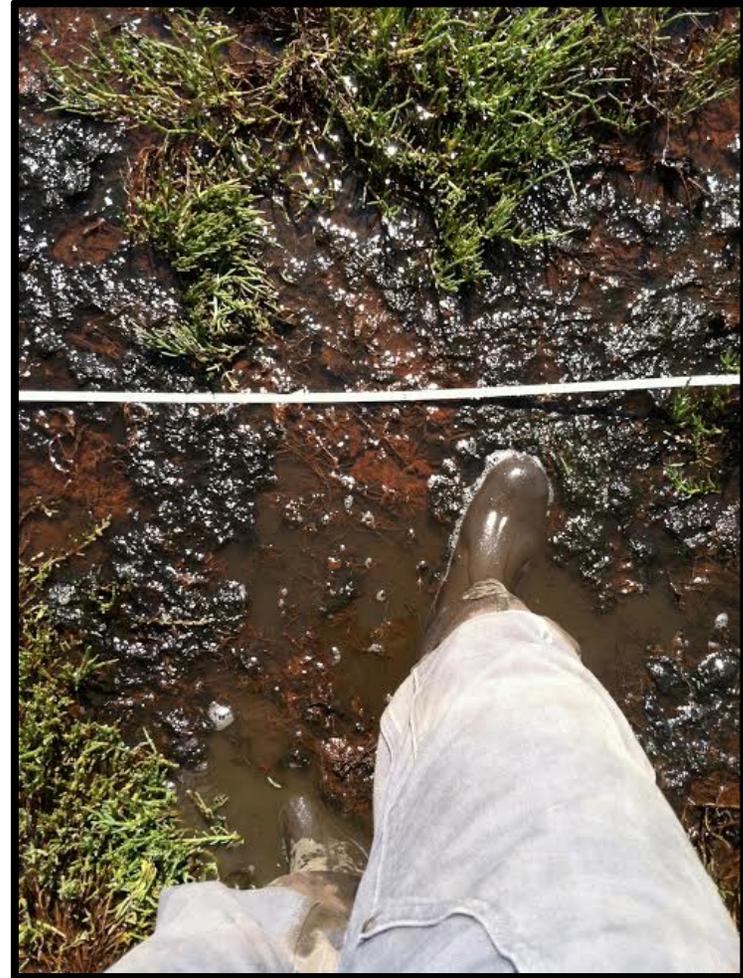


# Relic Berm Area



# SCEP Interberm Area

(Once water gets into interberm area, it gets trapped, cannot drain out, stagnates, kills vegetation, and creates algae and mosquito breeding habitat)



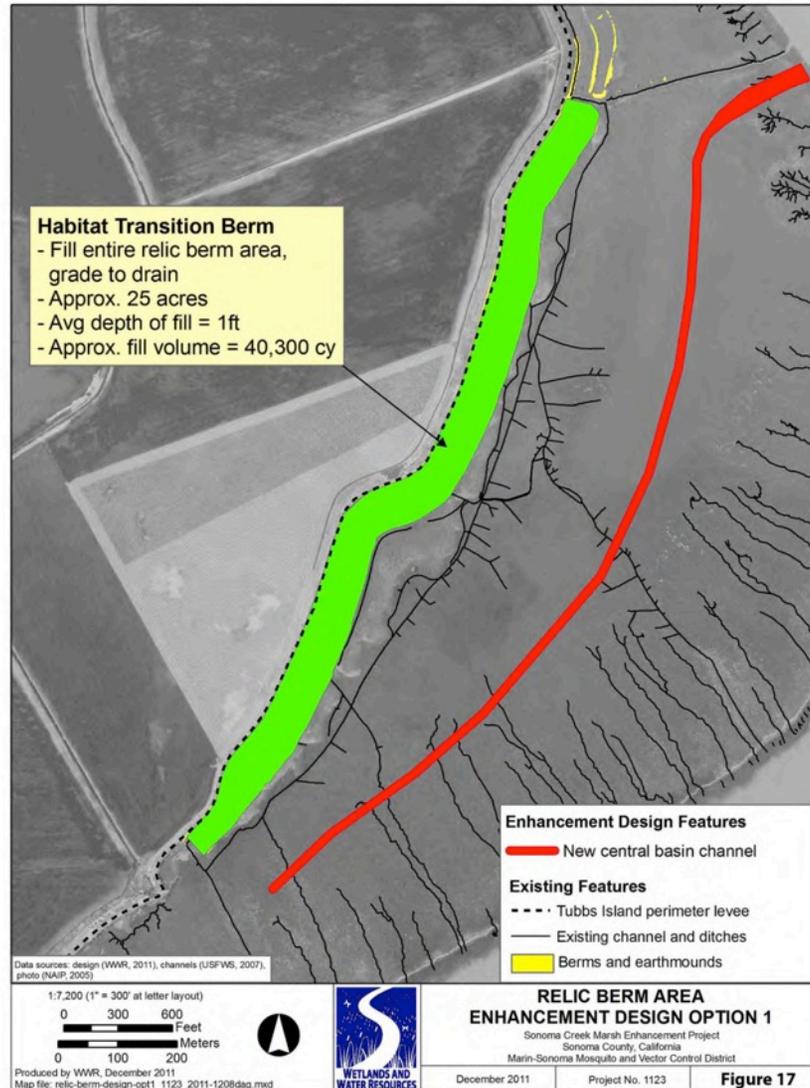
# Interberm Area, Ponded



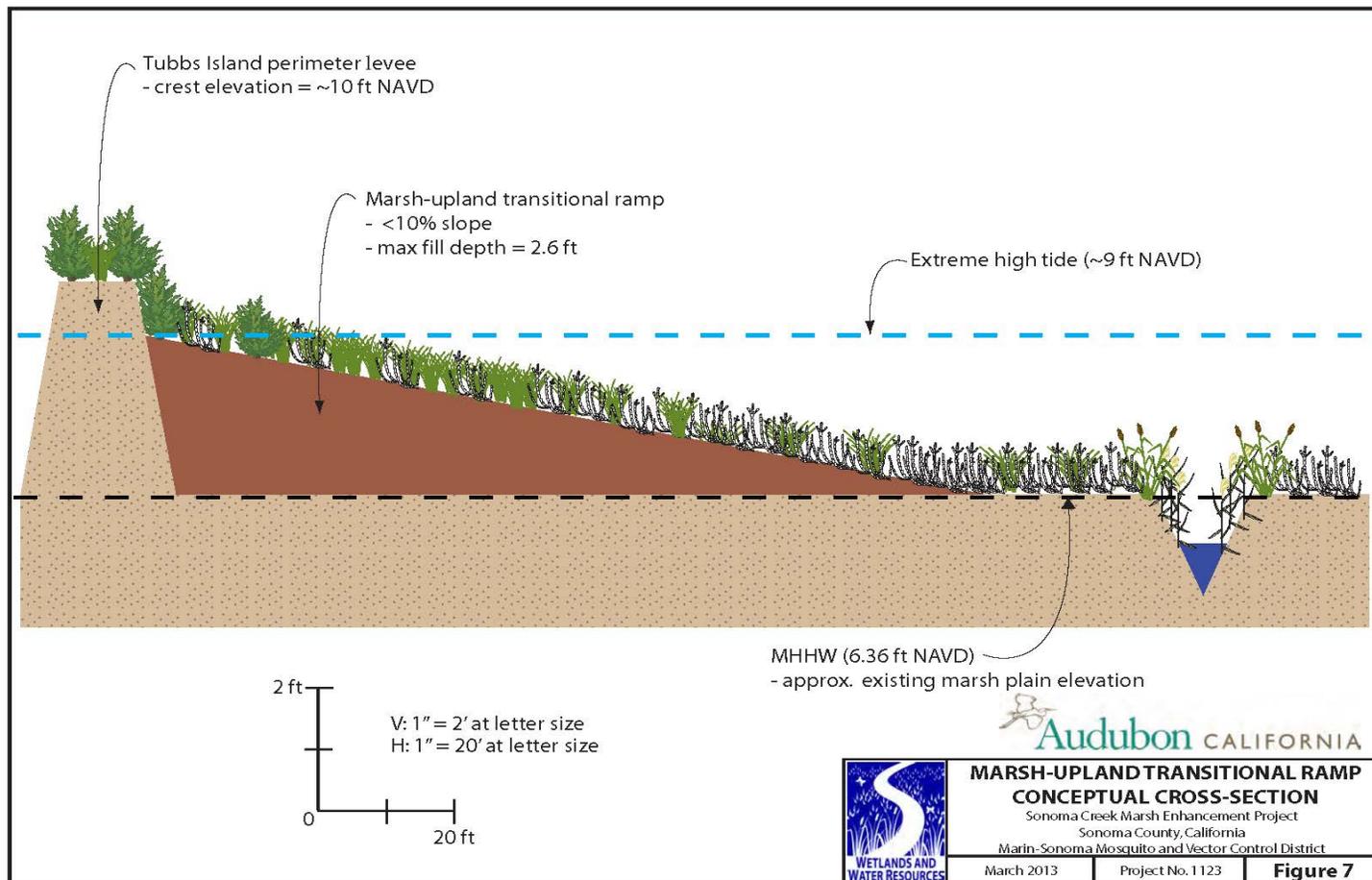
# Interberm Area, Post-Flood



# Relic Berm Preferred Alternative

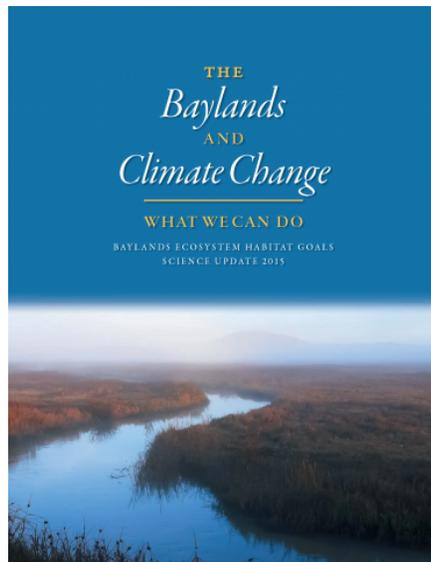


# Transition Ramp (We proposed 25 acres, but were permitted by BCDC to build 10 acres)



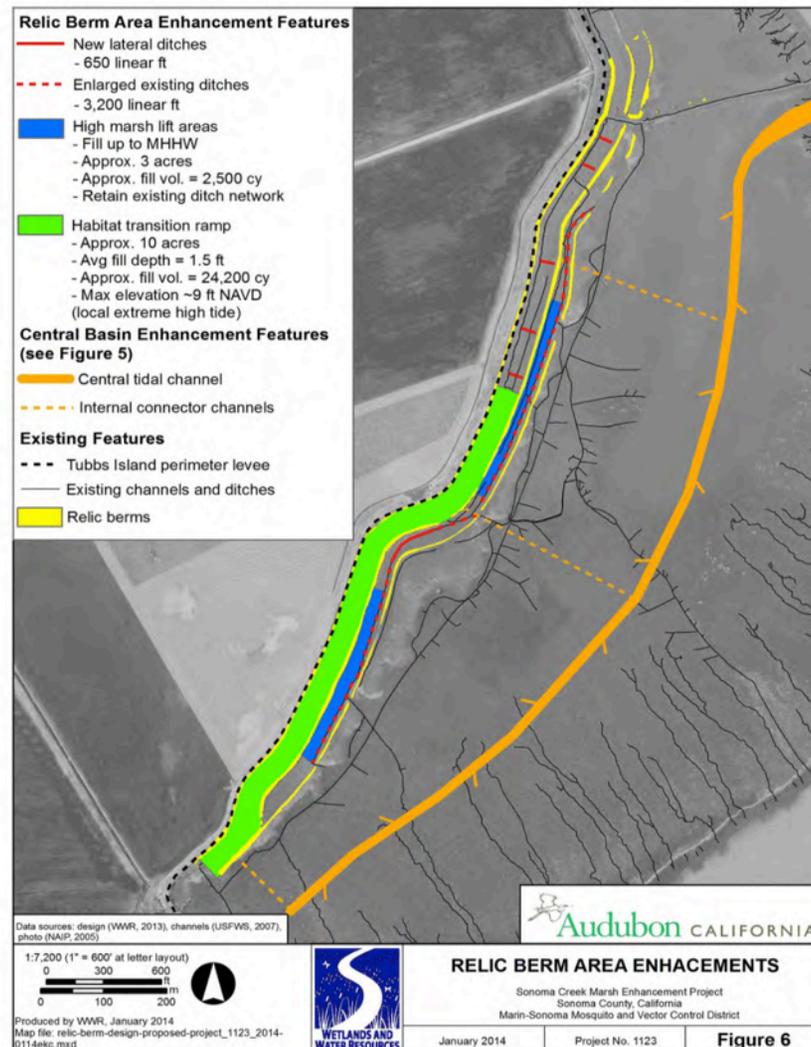
transition-ramp-XS\_1123\_2013-0429gal.ai

# Transition Zone Habitat Recognized as an Essential Component of a Healthy Tidal Marsh System



## **Recovery Plan for Tidal Marsh Ecosystems of Northern and Central California (USFWS)**

# Relic Berm Area Enhancement (Actual Design)



# New Transition Ramp (40:1!), Sonoma Creek Enhancement Project



# Current Interberm Areas without Ramp (the 15 acres on which we proposed to build the Ramp, but were not permitted to build the Ramp, are still functioning poorly and having impoundment problems)



# Current Interberm Area without Ramp

(We believe that being permitted for, and constructing, the entire 25 acres of Transition Ramp would have significantly improved function of this marsh, and therefore benefitted San Francisco Bay Baylands)

