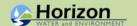
Environmental Planning and Compliance for Stream and Road Maintenance Projects

Napa WICC Board Meeting March 28, 2013







Introductions

Horizon Water and Environment, LLC

- Watershed Management, CEQA/NEPA, Permitting
- Specializes in developing stream maintenance and watershed management programs that balance land protection and natural resource protection/enhancement.
- History of working in Napa County

Jill Sunahara, Senior Associate

- Expertise in CEQA/NEPA, permitting, and water quality evaluation for water resources and restoration projects.
- Manage CEQA and NEPA compliance efforts
- Specialize in project permitting



Outline

- 1. Maintenance Overview
- 2. Permitting for Maintenance Activities
- 3. Regulatory Overview
- 4. Permitting Approaches
- 5. Example Stream Maintenance Programs



1. Maintenance Overview

Routine Maintenance Activities:

- Sediment Removal
- Vegetation Management
- Culvert and Streambank Repairs
- Road Maintenance
- Other Minor Activities
- TMDL Projects

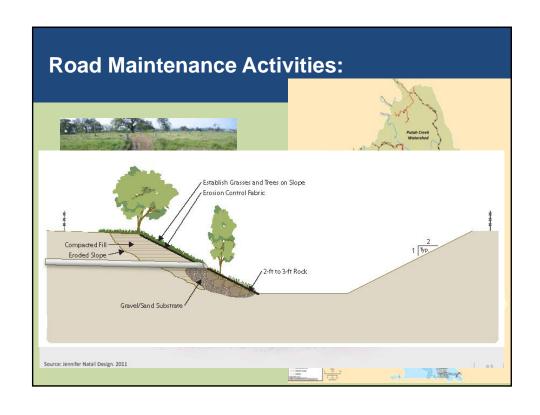














2. Permitting for Maintenance Activities

What Activities Trigger Permits?

- Working within the OHWM
- Ground Disturbing Activities
- Placement of Fill
- Using Herbicides Near Water
- Special-status Species and Habitat
- Water Quality Concerns (TMDL)

What Activities Do Not Need Permits?

- Non Ground Disturbing Activities
- Grass mowing
- Hand pruning



3. Regulatory Overview

Who Regulates What?

- U.S. Army Corps of Engineers
 - Waters of the U.S. fill in streams and wetlands
 - Clean Water Act Section 404 Permits
 - Nationwide Permit Program
 - Cultural Resources
- U.S. Fish and Wildlife Service
 - Special-status plants and wildlife, including amphibians
 - Endangered Species Act Section 7 and other federal laws
- NOAA National Marine Fisheries Service
 - Special-status anadromous fish
 - Endangered Species Act Section 7 and other federal laws



Regulatory Overview (cont.)

Who Regulates What?

- Regional Water Quality Control Boards
 - Waters of the state, wetlands, riparian areas
 - Water quality protection, including groundwater
 - Clean Water Act Section 401 Water Quality Certification
 - Waste Discharge Requirements (WDRs)
 - TMDLs, Water Rights, NPDES Discharges
- California Department of Fish and Wildlife
 - Waters of the state, wetlands, riparian areas
 - All fish and wildlife, not just special-status species
 - Section 1602 Lake and Streambed Alteration Agreements



4. Permitting Approaches

- Individual Permits
 - Project-by-project
 - One-time basis
- Programmatic Permits Regional General Permits
 - Groups of projects or activity types
 - Implement projects over multiple years
 - Multiple agencies





Programmatic Permitting Process

- 1. Define program activities, work locations, and impact avoidance and minimization measures (Manual)
- 2. Conduct resource assessments (as needed)
- 3. Develop mitigation approach
- 4. Conduct CEQA/NEPA
- 5. Submit permit applications
- 6. Negotiate with agencies

Typically takes 2-3 years to complete



5. Example Stream Maintenance Programs

- Sonoma County
 - Sonoma County Water Agency
- Santa Clara County
 - Santa Clara Valley Water District
- Napa County
 - Napa County Flood Control and Water Conservation District





Sonoma County SMP Program Overview / Goals

- Flood management in urban and rural settings
- Maintenance on owned channels, other city's channels, private lands
- Permitting delays were impacting flood protection
- Avoid and minimize environmental impacts
- Reduce maintenance frequency
- Develop watershed partnerships

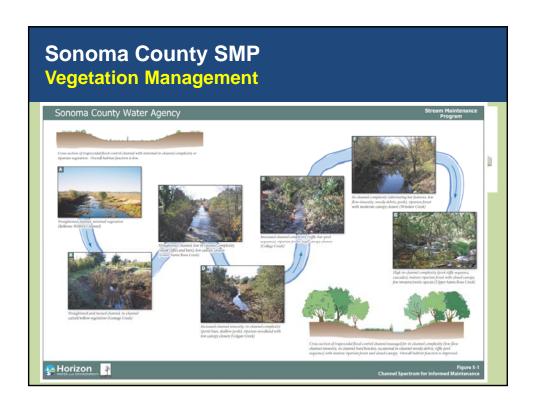




Sonoma County SMP Sediment Removal

- Localized and reach scale
- Target sediment removal zones
- Up to 25,000 cu-yds./yr
- Includes culvert clearing
- Work from top of bank if possible
- Sediment quality testing required
- Sediment local beneficial reuse program





Sonoma County SMP Mitigation On-Site and Off-Site Restoration Activities

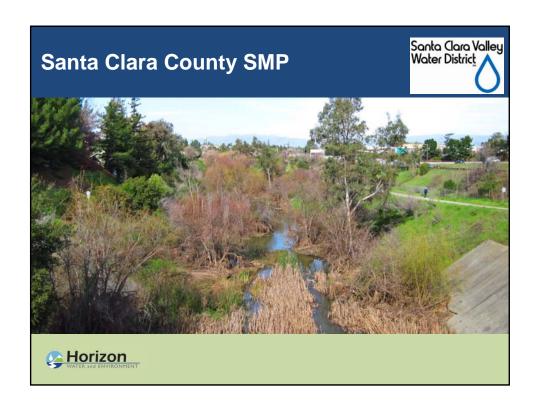
- Planting of trees, understory shrubs and aquatic plants to develop riparian canopy
- Geomorphic shaping of channel to enhance habitats
- Removal of exotic species
- Local erosion control and land management projects
- 10% of program maintenance costs invested in watershed grant fund
 - RCDs, Non-profits, Cities, Schools
- Headwater source area projects
- 5-yr monitoring of projects

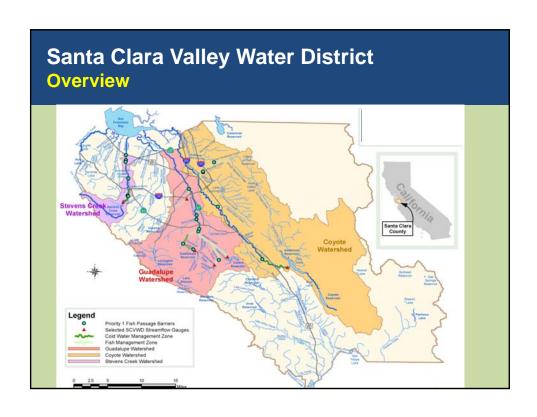




Sonoma County SMP Positive Outcomes / Lessons Learned

- High quality and resource protective manual
- SCWA environmental planners are directly involved in the maintenance work
- Watershed mitigation partnerships
- 5 or 10-year general permits received from regulatory agencies





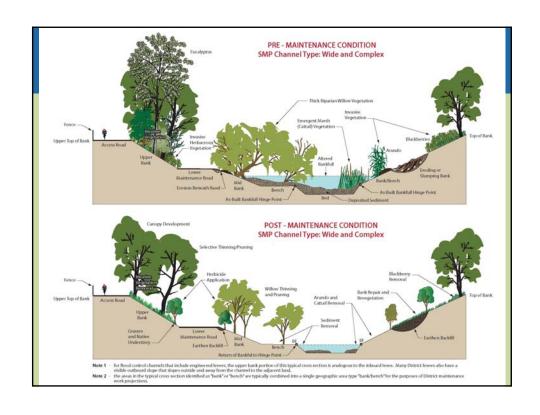
SCVWD SMP Update

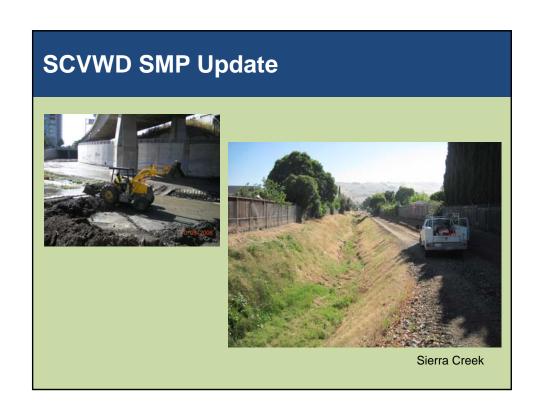
Program Overview / Issues

- Large program area organized by 5 watersheds
- Comprehensive maintenance program in place
- Permits expire in 2012, need to renew for next decade
- Manual Update, CEQA, and permitting:
 - Pay up-front mitigation program
 - 45,000 80,000 cy sediment removal annually
 - Extensive vegetation management program
 - Heavy herbicide use
 - Rodent control for levees

SCVWD SMP Update



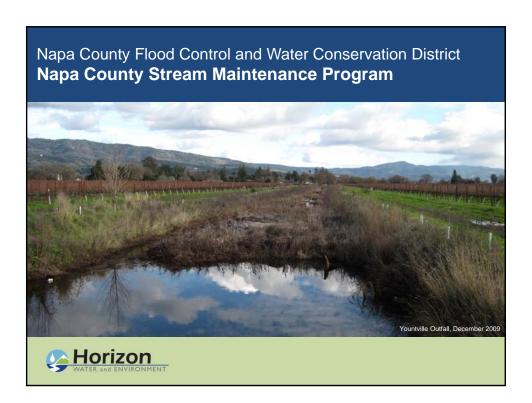




SCVWD SMP Update

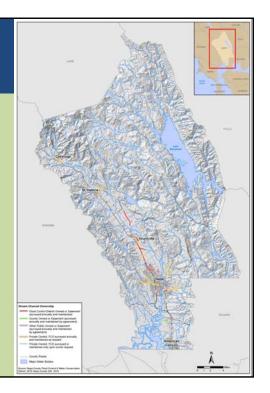
Current Status

- CEQA was completed for the Manual Updates in 2012
- No permits issued yet Regulators requesting more defined criteria for maintenance thresholds
- Mitigation District wants more flexibility with options
- Coordinate with habitat protection and restoration efforts



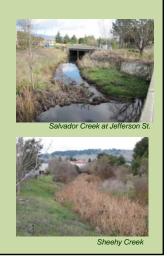
Program Area

- Annual survey of most streams in Napa Valley
- Maintenance on District/County-owned channel reaches
- Coordinate with other public or private landowners



Napa County Stream Maintenance

- No previous documentation
- County Roads Department works in parallel
- Robust planting program
- Ecologically sensitive approach, bio-technical approaches for banks, preserve LWD





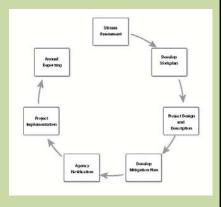
Napa County Stream Maintenance

- Heavy focus on vegetation maintenance
- Downed tree management
- Invasive plant management
- Erosion protection / bank stabilization
- Some sediment removal
- Habitat Enhancement
- Other activities:
 - Trash removal
 - Beaver management
 - Culvert replacement



Napa County Stream Maintenance Status

- Maintenance Manual finalized in 2012
- 5-year Permits received from CDFW and Regional Board 2012
- Nationwide Permit Notification on as-needed basis
- Increased maintenance efforts



Benefits of Coordinated Permitting

- Integrated Watershed Approach
- Large effort up-front leads to Long-term benefits
- Permitting certainty provides schedule and cost benefits
- Consistent, standardized methods and approval process
- Streamlined annual notifications, approvals, and reporting for multiple projects in a season
- Greater flexibility to conduct work, particularly if endangered species are present
- Defined mitigation requirements
- Permit extension flexibility



Thank You!

Contact:

Ken Schwarz or Jill Sunahara (510) 986-1850 www.horizonh2o.com

Anything can be accomplished with good teamwork!



