



Item 10

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Presentation Outline

Central Coast Grant Program Background

Program Goals

Grant Funding

Project Highlights

Newly Awarded Projects

Grant Program Introduction

- Successful Program
- Shift to water quality measurable outcomes
- Total dollars
- Focusing on key priorities

Central Coast Grant Program Goals

- Alignment with vision
- Effective outreach
- Efficient management
- Integration with programs
- Accountability
- Leverage \$
- Disadvantaged communities

Grant Funding

Central Coast Water Board Managed Grants

17 Projects - \$7.5 M

- Nonpoint Source Grants
- Agricultural Water Quality Grants
- Central Coast Safe Drinking Water Projects

State Board Administered Grants

21 Storm Water Grant Projects - \$30 M

Nonpoint Source Agricultural Projects



Project Types

- Riparian restoration and rural road improvements
- On-farm irrigation and nutrient management
- Agricultural treatment and wetland restoration
- Central Coast Safe Drinking Water projects
- Storm Water projects
- Newly awarded grants

Riparian Restoration and Rural Road Improvements

Riparian Restoration and Rural Road Improvements

- 4 Projects
- San Lorenzo, Pajaro, Morro Bay Watersheds
- Total dollars
- Project practices
- Outcomes
 - Load reductions
 - Voluntary practice implementation

Riparian Restoration and Road Projects



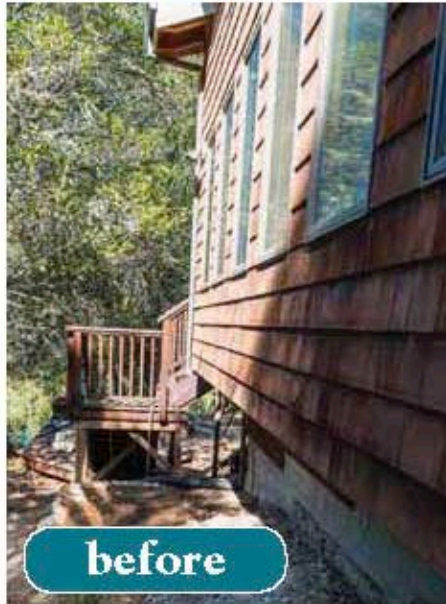
San Lorenzo River Erosion Control

Resource Conservation District

Santa Cruz County

- Technical cost-share assistance
- Best Management Practices
 - 9 rural road projects
 - 3 home drainage projects
- 62 additional implementation
- Over 2,000 tons sediment prevented
- 150 to 400 tons/year reduction

San Lorenzo River Rural Roads Erosion Control Assistance



Credit: Resource Conservation District of Santa Cruz County

San Lorenzo River Rural Roads Erosion Control Assistance



Credit: Resource Conservation District of Santa Cruz County

San Lorenzo River Rural Roads Erosion Control Assistance



Credit: Resource Conservation District of Santa Cruz County

Central Coast Livestock and Land Projects



After

Before

*Credit:
Resource Conservation District of Santa Cruz County, Ecology Action*

Morro Bay Erosion Prevention Project

Before



After

Credit:
Morro Bay National Estuary Program

Morro Bay Agricultural Water Quality Enhancement

Before



After



Credit:
Coastal San Luis Resource Conservation District

Morro Bay Agricultural Water Quality Enhancement



Credit:
Coastal San Luis Resource Conservation District

On-farm Irrigation and Nutrient Management (INM)

On-farm Irrigation and Nutrient Management

- 4 Projects
- Pajaro, Salinas, Morro Bay, Santa Maria
- Total dollars
- Project practices
- Outcomes
 - Load reductions
 - Extend to larger operation

Irrigation and Nutrient Management Projects



Irrigation and Nutrient Management

Salinas Valley,

University California Cooperative Extension and
Resource Conservation District Monterey County

- On-farm assessments
- 12 growers
- Over 10,000 acres
- 29,000 acre-ft /year water savings
- 294 tons/year nitrogen reduction

Prop 84 Ag Water Quality: Salinas Watershed INM Program



Credits:

Resource Conservation District of Monterey County, UC Cooperative Extension

Prop 84 Ag Water Quality: Salinas Watershed INM Program



Credits:

Resource Conservation District of Monterey County, UC Cooperative Extension

Prop 84 Ag Water Quality: Pajaro INM Program



Credits:

Resource Conservation District of Santa Cruz County, UC Cooperative Extension

Agricultural Treatment and Wetland Restoration

Agricultural Treatment and Wetland Restoration Projects

- 6 Bioreactors
 - Edge of field - Morro Bay, Elkhorn
 - Collective drainage - Moro Cojo, Watsonville
 - Watershed scale - Oso Flaco, Santa Maria
- 3 Wetland treatment
 - Castroville
 - Pinto Lake
 - Oso Flaco
- Total Dollars
- Outcomes



Agricultural Treatment and Wetland Projects



Bioreactors

Warden Creek, Morro Bay

Coastal San Luis Resource Conservation District

- On-farm bioreactor
- Tile drains pumped by windmill power
- Treats 27 acres of irrigated lands
- Average nitrate reduction:
 - 27 mg/L N03-N inlet
 - 2.5 mg/L N03-N outlet
 - Over 30 lbs / year nitrate reduction

Morro Bay Ag Water Quality Enhancement Program



*Credit:
Coastal San Luis Resource Conservation District*

Morro Bay Ag Water Quality Enhancement Program



Credit:
Coastal San Luis Resource Conservation District

Salinas Valley Watershed INM Program

Azevedo Farms Bioreactor, Elkhorn Slough



*Credits: Coastal
Conservation and
Research, Monterey
National Marine
Sanctuary, Central Coast
Water Board*

Salinas Valley Watershed INM Program

Ocean-Mist Farms Bioreactor,
Moro Cojo Slough

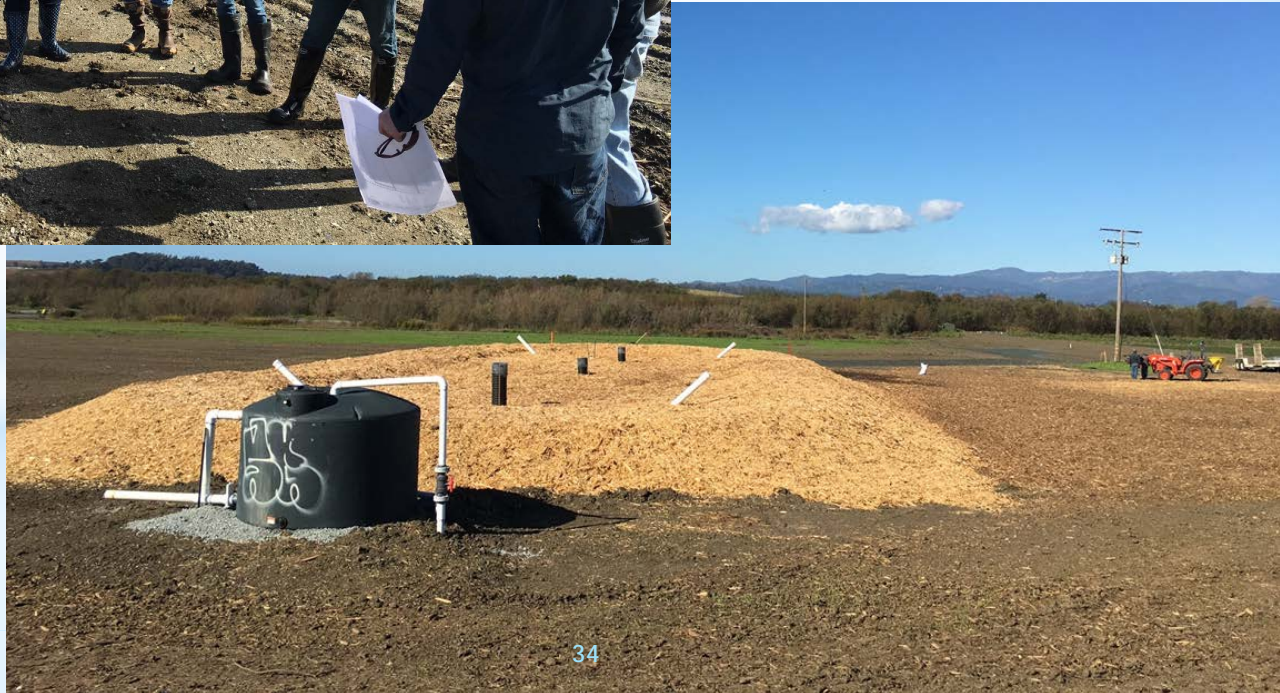


*Credits: Coastal Conservation and
Research, Central Coast Wetlands
Group, Resource Conservation
District of Monterey County*

Bryant Habert Bioreactor, Watsonville Slough



*Credits:
Resource
Conservation
District, Land
Trust of
Santa Cruz
County*



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Oso Flaco Lake Bioreactor, Santa Maria



*Credits:
Coastal San Luis Resource Conservation District*

Jim May Park Bioreactor, Santa Maria



*Credits:
City of Santa Maria, Central Coast Water Board*

Wetland Treatment and Restoration

Castroville, Salinas Valley

Coastal Conservation and Research,
Central Coast Wetlands Group, Moss Landing Marine Labs
Monterey Sanctuary Foundation

- 18 acres constructed wetland
- 600-1000 acres of agriculture
- Treats runoff to Moro Cojo slough
- 50-80% Nutrient reduction

Prop 84 Salinas Valley Watershed INM Program Castroville Slough - PG&E Treatment Wetland

Before



After

*Credits: Coastal Conservation and Research, Central Coast Wetlands Group,
Central Coast Water Board*

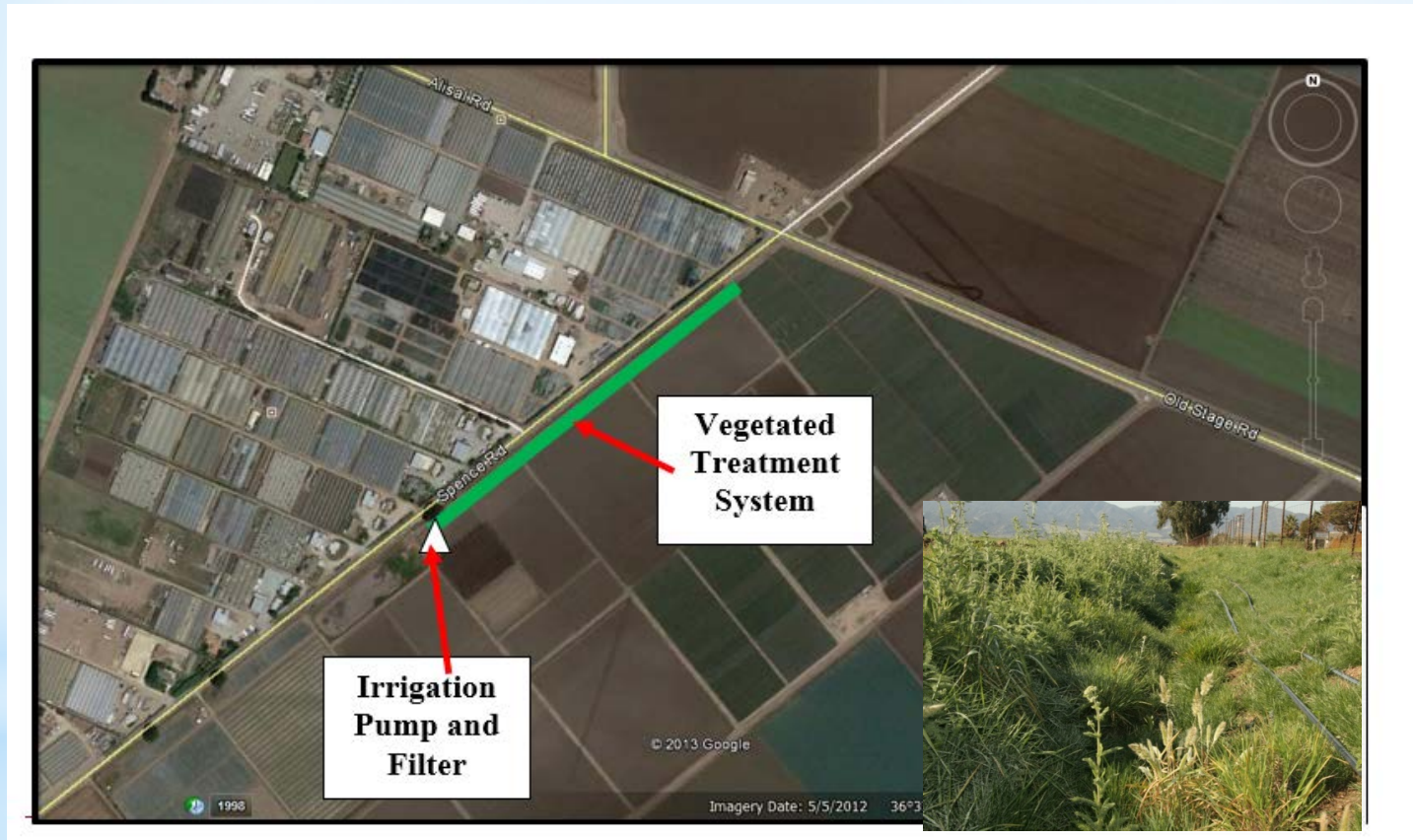
Prop 84 Salinas Valley Watershed INM Program Castroville Slough - PG&E Treatment Wetland



Dedicated to Melanie Mayer Gideon

*Credits: Coastal Conservation and Research, Central Coast Wetlands Group,
Central Coast Water Board*

Prop 84 Ag Water Quality: Salinas Watershed INM Program



*Credits: Resource Conservation District of Monterey County,
UC Cooperative Extension*

Pinto Lake Restoration



*Credit:
Central Coast Water Board*

Oso Flaco Lake Restoration



*Credit:
Coastal San Luis Resource Conservation District*

Central Coast Safe Drinking Water Projects

Central Coast Safe Drinking Water Projects

Environmental Justice Coalition for Water and the
Coalition for Urban Rural Environmental Stewardship

- Nitrate contaminated drinking water source
- Disadvantaged communities
- Limited resource growers
- Over 40 households bottled water delivery
- Reverse Osmosis system installation
- Over 60,000 gallons of water
- Over two years

Safe Drinking Water Grant Projects



Central Coast Safe Drinking Water Projects



*Credit:
Environmental Justice Coalition for Water*

Central Coast Safe Drinking Water Projects



Credit: the Coalition for Urban Rural Environmental Stewardship

Storm Water Grant Projects

- State Board administered
- Staff review proposals
- Awarded to municipalities
- Planning
- Implementation
- Leverage \$

Storm Water Grant Projects



Newly Awarded Projects



Strawberry Certification Program

California Strawberry Commission and Growers

- Establish 3rd party certification
- Pajaro, Salinas, and Santa Maria Valleys
- Practice requirements
- Verification
- Enroll 10,000 acres



Pajaro Toxicity Reduction Project

*Resource Conservation District Santa Cruz
Department of Pesticide Regulations, UC Davis*

- Design and implement practices
- Reduce pesticide toxicity
- 8 Project Sites
- 500 acres
- Up to 96% pesticide load reduction

Conclusions

- Projects across priority areas
- Exceeds our targets for funds and projects
- Constructs on-the-ground implementation
- Achieves measurable outcomes
- Leverages matching funds
- Benefits disadvantaged communities

Questions?

Videos

Opening event for PG&E Wetland Treatment:

<http://www.ksbw.com/article/moss-landing-project-aims-to-make-ag-runoff-water-cleaner/8341998>

[Time Lapse Video of Jim May Park Bioreactor:](http://jimmayparkbiofilter.org/gallery/videos)

<http://jimmayparkbiofilter.org/gallery/videos>

PG&E Drone Videos