

Protecting Your Marine Sanctuary by Protecting Your Watersheds

**Sanctuary Advisory Council
Presentation**

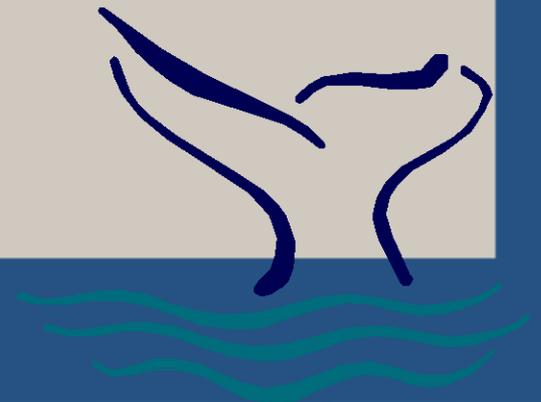
August 21, 2013



Bridget Hoover, Director

Water Quality Protection Program

Monterey Bay National Marine Sanctuary





Presentation Overview



- About the Water Quality Protection Program
 - Water quality efforts in San Mateo
 - Urban
 - Regional Coordination and Monitoring
 - Agriculture
 - Other WQPP activities
 - Desalination
 - Integrated Regional Water Management programs



San Lorenzo River





WQPP Action Plans



Implementing Solutions to Urban Runoff

Regional Monitoring, Data Access, and Interagency Coordination (SAM)



Marinas and Boating

Agriculture and Rural Lands



Beach Closures and Microbial Contamination



WQPP Action Plans



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First Flush

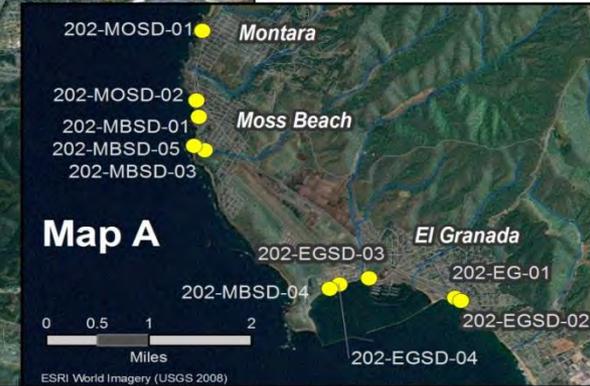
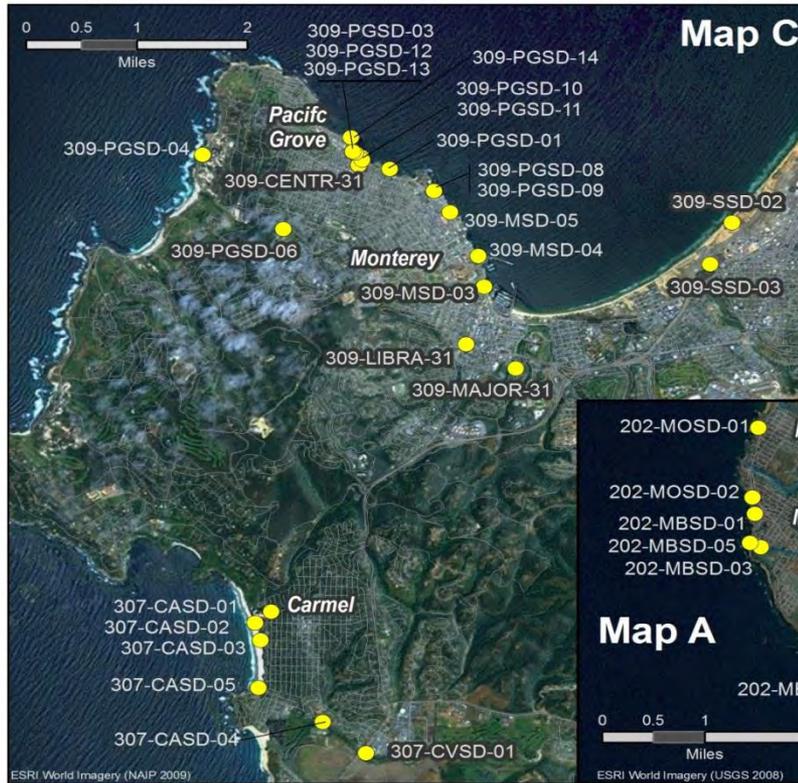


- Began in 2000
- First major rain of the season
- ~50 storm drain outfalls in 13 cities
- Samples are analyzed in a lab for:
 - Zinc, copper, lead
 - Hardness
 - Nitrate, urea, orthophosphate
 - Total suspended solids
 - E. coli, enterococcus
 - Field measurements





First Flush Sites 2011

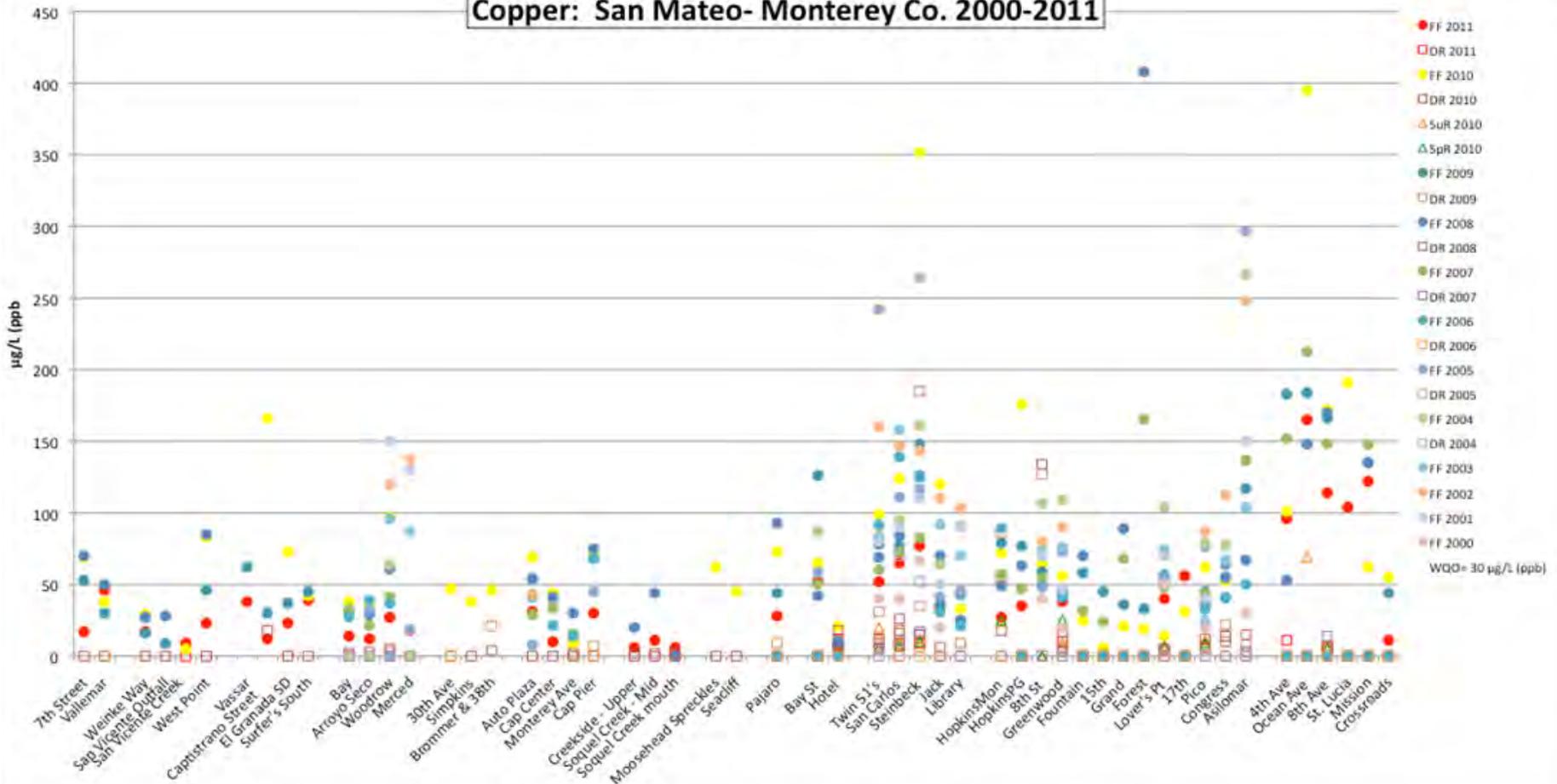




FF Copper Results



Copper: San Mateo- Monterey Co. 2000-2011

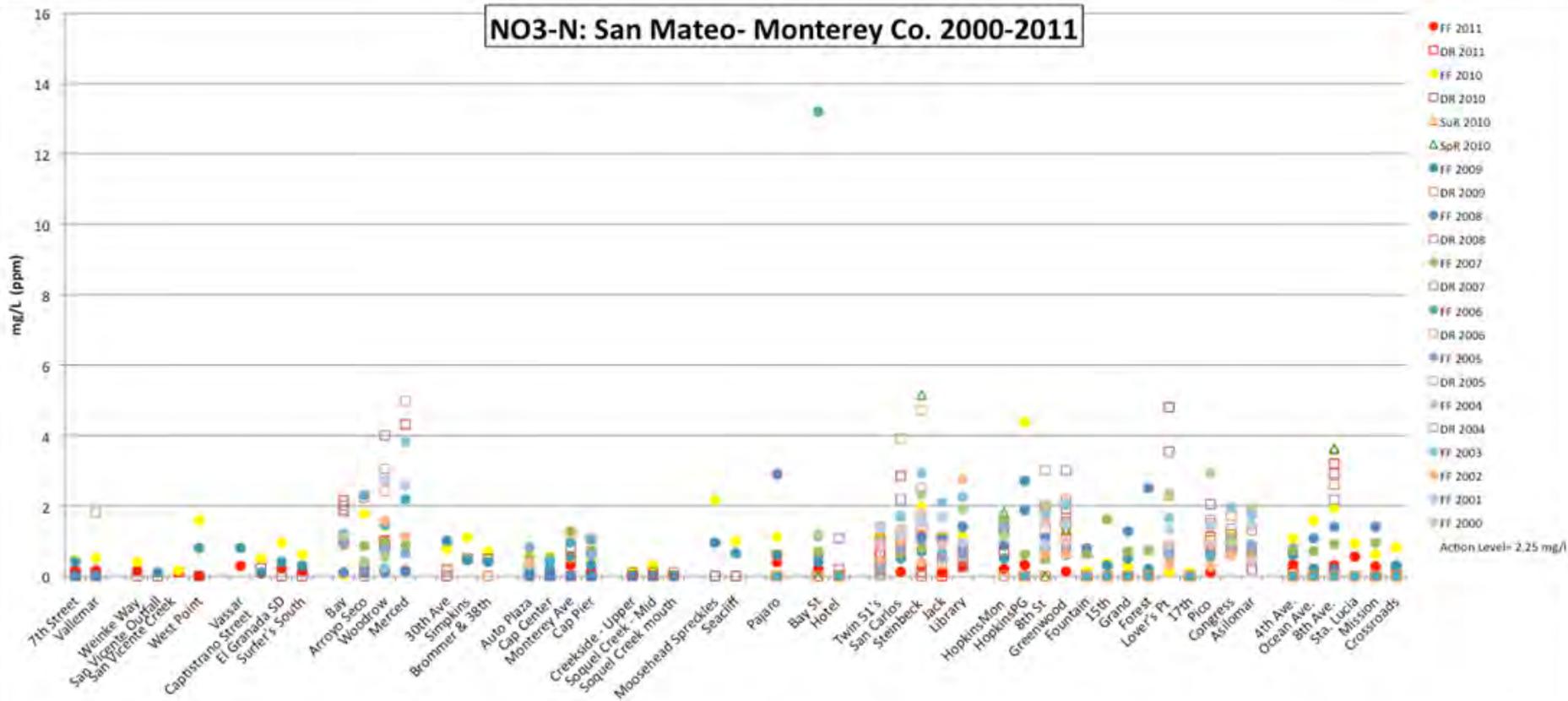




FF Nitrate Results



NO3-N: San Mateo- Monterey Co. 2000-2011



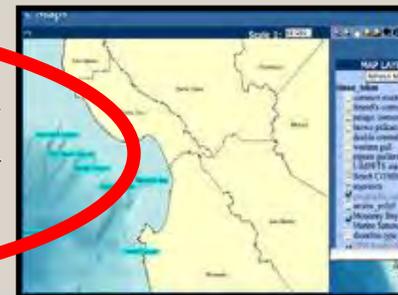


WQPP Action Plans



Implementing Solutions to Urban Runoff

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WQ Viewer



http://www.sanctuariesimon.org/regional_sections/maps/wqviewer/index.php

Map **Satellite** **Hybrid** **Terrain**
Zoom ...

Site Selection **Site Details**
Select By
Programs **Analytes**
Submit

All Programs
 CCAMP
 CCAMP Coastal Confluences
 CCAMP Watersheds
 CIMT
 CWC
 First Flush Urbanwatch
 Clean Streams
 Snapshot Day
 CCWQP
 CCOWS
 ESNERR
 MBNMS
 First Flush Urbanwatch
 Snapshot Day
 MaroLH

Site Tag: 309GAB001
Program ID: CCAMP

Select	Site Tag	Station Name	Prog ID	Latitude	Longitude	Datum
Select	304APS001	304APS-Aptos Creek at Nisene Marks park road	CCAMP	37.001383	-121.906217	WGS84
Select	304APT001	304APT-Aptos Creek @ Spreckles Drive	CCAMP	36.973867	-121.9038	WGS84
Select	304APW001	304APW-Aptos Creek @ Winfield	CCAMP	36.9721	-121.90545	WGS84

Download to Excel
RSS Feed

Location: 309GAB001 - 309GAB-Gabilan Creek @ Independence Road and East Boranda Road - Mozill...
<http://www.obsregistry.org/wqviewer/streetView.php?siteTag=309GAB001>

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Gary Conley
Water Quality Analyst



Central Coast Action Tracker



Browser address bar: <https://www.ccactiontracker.org/>

Browser tabs: Monterey Bay National Marine..., National Oceanic and Atmosp..., Conservation Action Tracke...

Browser menu: File Edit View Favorites Tools Help

Browser bookmarks: My Year Abroad in Copen..., mbnms Sanctuary Laws &..., ArcGIS - Water Quality Re..., What is a 303(d) list of im..., America's Great Outdoors..., MTYHD.org - Beach Alert ..., https--elkhornslough.sec..., webta Login com.threesis..., National Oceanic and At...

Conservation Action Tracker

DRAFT

Measuring conservation progress on California's Central Coast

- Home
- Map
- Reports
- About
- Help
- Log In

Welcome to the Conservation Action Tracker for California's Central Coast. The purpose of this website is to assist project managers, conservation organizations, and the general public find and share information about conservation projects on the Central Coast. Click on the buttons below or in the above navigation bar to learn more.

Project Locations

Find out what is happening in your watershed



Conservation Reports

Find archived reports and generate new reports



Project Managers

Upload new projects and edit existing projects



© Conservation Action Tracker

Interactive mapping by GreenInfo Network



System tray icons and date/time: 12:33 PM 8/19/2013

www.ccactiontracker.org

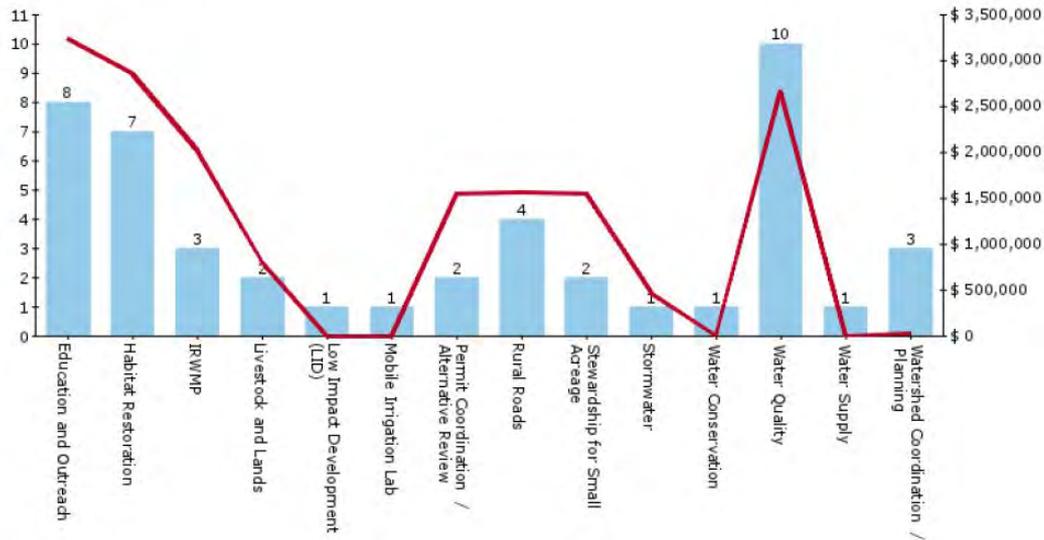
National Marine Sanctuaries • America's Ocean Treasures



Conservation Action Tracker

measuring progress towards conservation goals on California's Central Coast

Regional Program Activity





Snapshot Day



- Since 2000
- First Saturday in May
- Monitor over 100 streams
- Parameters
 - H₂O temperature
 - transparency/turbidity
 - conductivity
 - pH
 - dissolved oxygen
 - nitrate, orthophosphate
 - Eschericia coli





Areas of Special Biological Significance (ASBS)

Regional Monitoring

- Reference site monitoring (3 events)
- Core Monitoring -18” outfalls (one event)
- Receiving water monitoring (6 events)



Fitzgerald Prop 84 TAC

- San Mateo County PW
- Phase 1 installed variety of BMPs at Moss Beach and Montara (Fall/Winter 2011)
- Phase 2 began this summer
- Swales, filter flumes, drain inserts w/filter cartridges
- 10 monitoring sites
- Saw moderate to highly effective removal of contaminants



WQPP Action Plans



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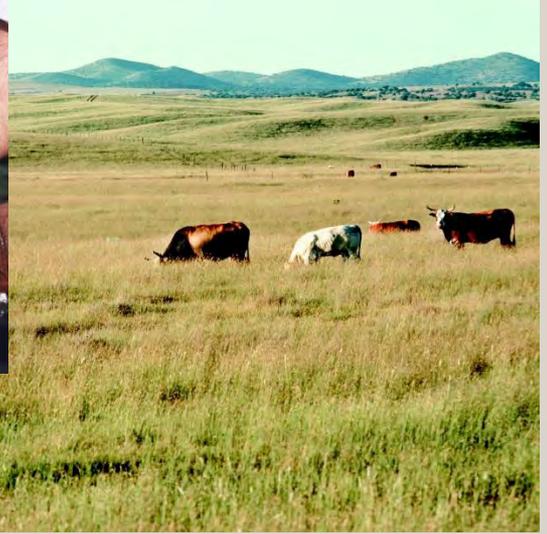
Agriculture and Rural Lands



Beach Closures and Microbial Contamination



Agriculture & Rural Lands Action Plan



- Agricultural Diversity
- Education and Outreach
- Management and Implementation
- Monitoring & Research



A History of Conservation through Collaboration



Watersheds flowing into the Monterey Bay National Marine Sanctuary



AWQA
Agriculture Water Quality Alliance

RESOURCE
CONSERVATION DISTRICTS

UCCE
University of California
Cooperative Extension

NRCS
Natural Resources
Conservation Service

NATIONAL MARINE
SANCTUARIES
MONTEREY BAY

Central Coast Agriculture
Water Quality Coalition



Keep it on the field: Irrigation efficiency, Erosion control

Minimize usage: Integrated Pest Management

Vegetative Treatments: Holds soil, removes nutrients





AWQA Strategy (2013)



- Goal 1: Trusted convener for problem solving
- Goal 2: Able to quantify effectiveness of improved water quality
- Goal 3: Improve communications and public relations (External, w/ partners)
- Goal 4: Sufficient technical capacity to meet grower needs
- Goal 5: Establish Sustainable Funding for AWQA
- Goal 6: Partner actions are informed by AWQA strategic planning



Irrigation Nutrient Mgmt Program



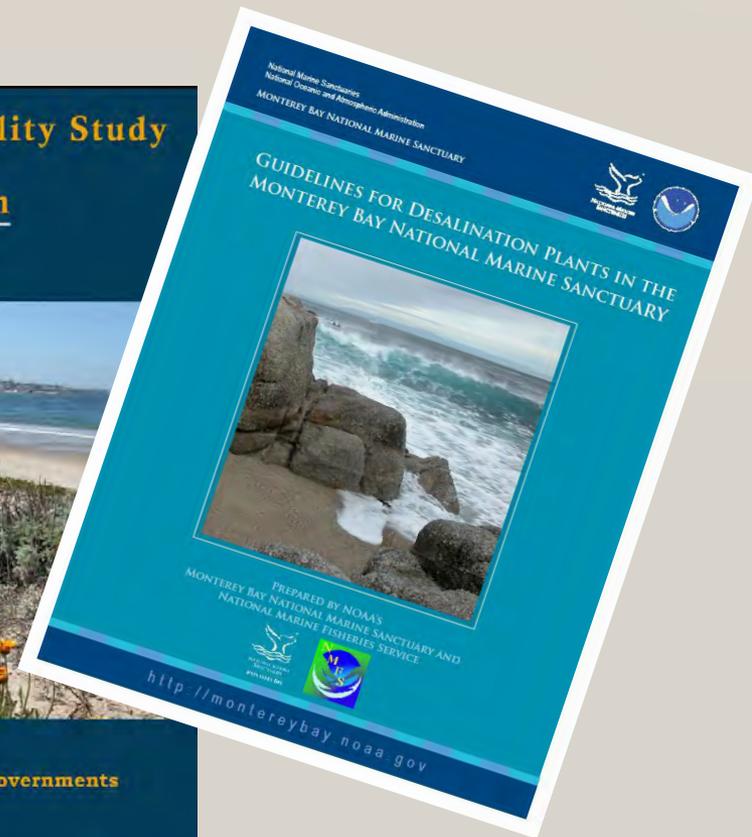
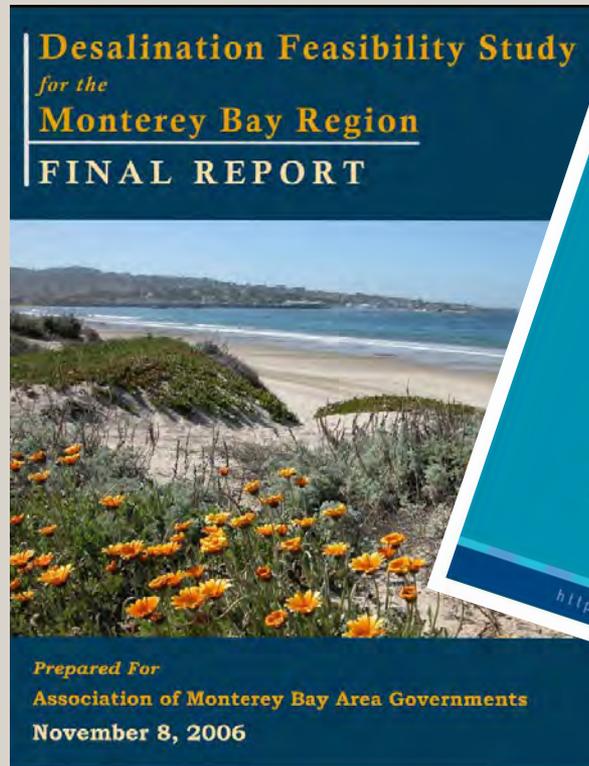
- \$1.25M awarded March 1st
 - Irrigation/nutrient assessments and implementation of practices
- Western SARE grant for \$39,000 awarded for enhancing training for technical service providers
 - Includes 8 RCDs, Coalition and UCCE



Desalination



- Tracking 4 projects within Monterey Bay
- Coordinating regulatory review
- May be federal NEPA lead





Other WQPP Activities



- Integrated Regional Water Management programs
 - Planning and Implementation grants
- Regional Water Quality Monitoring
- Beach WQ research and monitoring
- Volunteer programs

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