

# California State Water Project Watershed Sanitary Survey 2006-2010

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# Presentation Outline

## ■ Approach

- Executive Summary
- I. Introduction
- 2. System Environment
- 3. Water Quality
- 4. Key Water Quality Vulnerabilities of the Delta and SWP
- 5. Findings and Recommendations

## ■ Report Review and Schedule

## ■ Action Plan

# Chapter 2. System Environment

## Draft Submitted and Comments Received

Topic	Level of Effort		
	New Evaluation	Update	Review Actions
Drinking Water Regulations		✓	
Source Water Protection Regulations		✓	
Biological Opinions	✓		
Policy Setting	✓		

# Chapter 3. Water Quality in the Watersheds and the SWP – Draft Submitted Jul 15

- Watershed and Water Supply
- Water Quality
  - Organic Carbon
  - Salinity
  - Bromide
  - Turbidity
  - Nutrients
  - Algal Blooms and T&O
  - Trace Elements and Pesticides
  - Pathogens and Indicator Organisms
  - Constituents of Emerging Concern

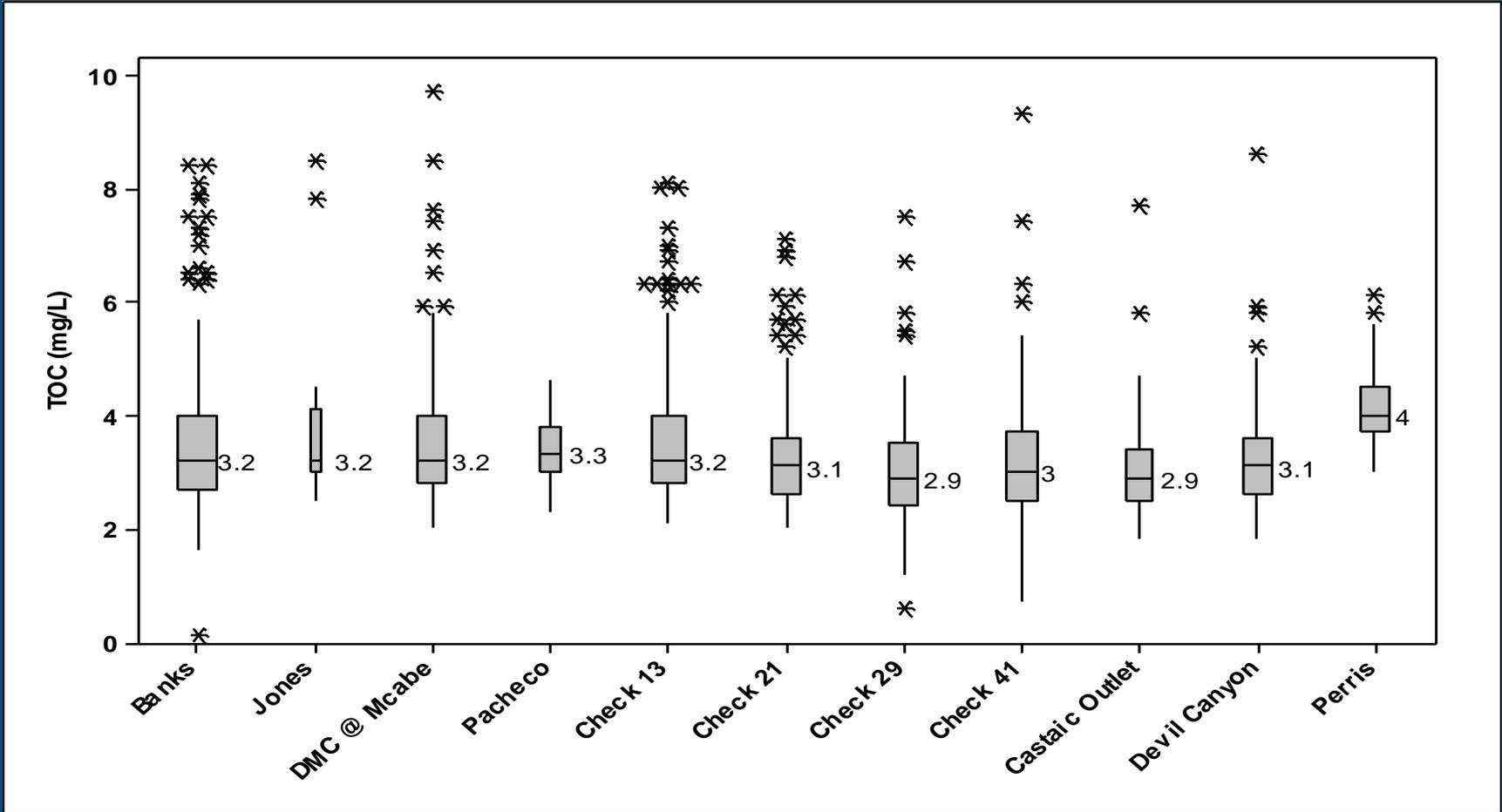


# Water Quality Analyses

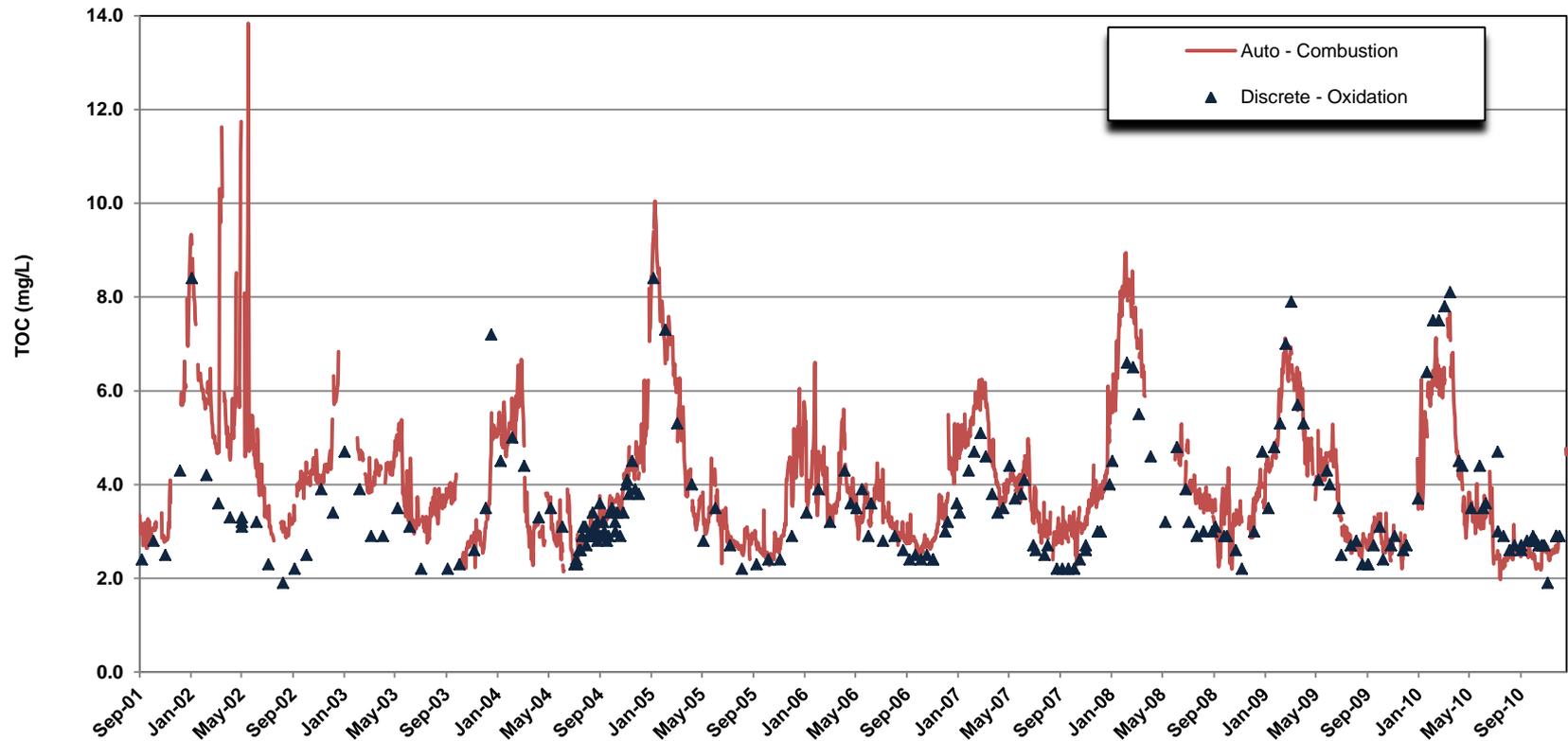
- **Multiple locations**
  - Trends from upstream, through Delta, along aqueduct, in reservoirs
- **Each Location**
  - Auto-sampler/grab sample comparisons
  - Long-term trends
  - Seasonal trends
  - Water year type trends



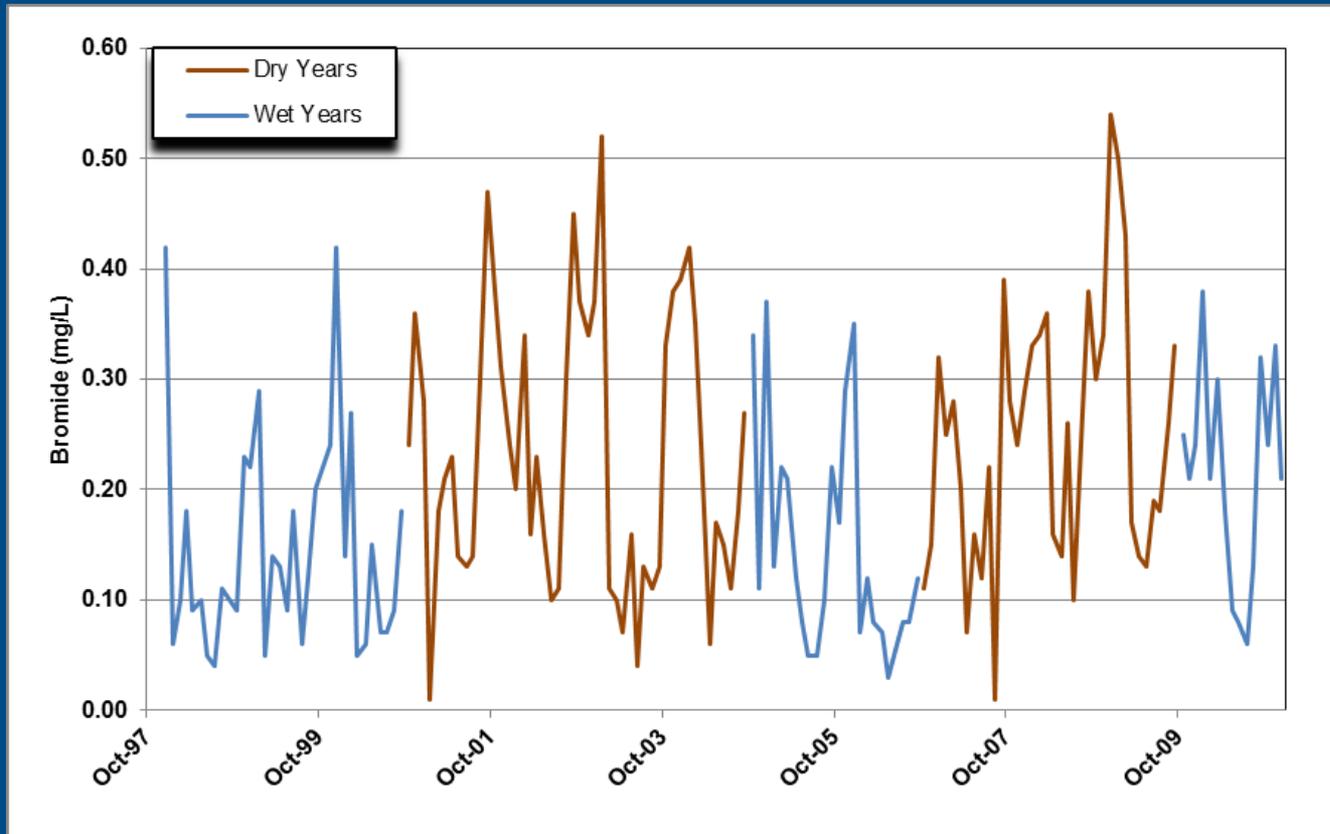
# Spatial Trends – TOC in SWP



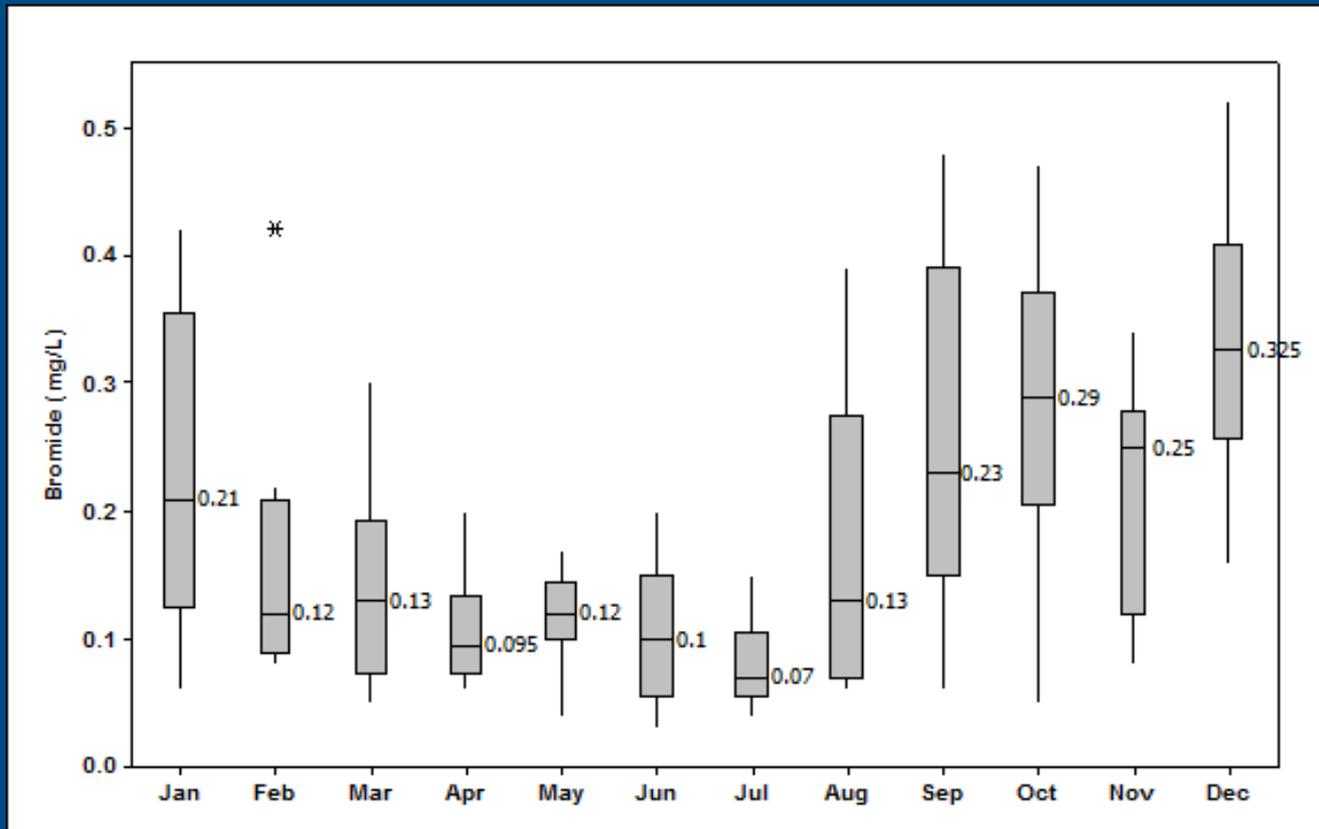
# Auto-sampler/Grab Sample Comparison



# Dry Year/Wet Year Comparison



# Seasonal Variability



# Chapter 4. Key Water Quality Vulnerabilities of the Delta and SWP

## Due Sep 16

- Key Delta Contaminant Sources and Vulnerabilities
- Key SWP Contaminant Sources and Vulnerabilities
- Key SWP Facility Operations Vulnerabilities

# Key Delta Contaminant Sources and Vulnerabilities

Topic	Level of Effort		
	New Evaluation	Update	Review Actions
Wastewater Treatment Plants		✓	
Urban Runoff		✓	
Carbon Sequestration	✓		
Farmland to Habitat Islands	✓		
Delta Rice		✓	
Delta Recreation		✓	

# Key SWP Contaminant Sources and Vulnerabilities

Topic	Level of Effort		
	New Evaluation	Update	Review Actions
North Bay Aqueduct		✓	
South Bay Aqueduct		✓	
Clifton Court Forebay			✓
San Luis Reservoir	Cattle grazing	Low Point	
Coastal Branch		✓	

# Key SWP Contaminant Sources and Vulnerabilities

Topic	Level of Effort		
	New Evaluation	Update	Review Actions
Non-Project Inflows	✓		
Intertie Project	✓		
Subsidence Along Aqueduct	✓		

# Key SWP Contaminant Sources and Vulnerabilities

Topic	Level of Effort		
	New Evaluation	Update	Review Actions
Pyramid Lake			✓
Castaic Lake		✓	
Silverwood Lake			✓
Hesperia Drainage		✓	
Lake Perris		✓	

# Key SWP Facility Operations Vulnerabilities

Topic	Level of Effort		
	New Evaluation	Update	Review Actions
Impacts of Operational Changes and Drought on Water Quality	✓		

# Chapter 5. Findings and Recommendations

Due Oct 28

- Progress on 2006 Action Items
- Summary and Recommendations for 2011 Action Items

# Report Review and Schedule

- Draft Report – Dec 30, 2011
- Revised Draft Report – Mar 16, 2012
- Draft Final Report – Apr 27, 2012
- Final Report Submitted to CDPH – Jun 29, 2012

# Action Plan

- Draft Actions – Dec 30, 2011
- Meetings in No. and So. Cal – May 2012
- Draft Action Plan – Jun 15, 2012
- Final Action Plan – Aug 31, 2012

# Questions And Comments