# PUBLIC WORKSHOP AND CEQA SCOPING MEETING Nutrient TMDL for Franklin Creek in the Carpinteria Salt Marsh Watershed

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Central Coast Regional Water Quality Control Board
TMDL Program
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# Agenda

- Introductions
- TMDL Update
- CEQA Scoping
- Adjourn

# Impaired Waters

- Franklin Creek impairment due to high nitrate levels
- Marsh impairments for nutrients, organic enrichment/low dissolved oxygen

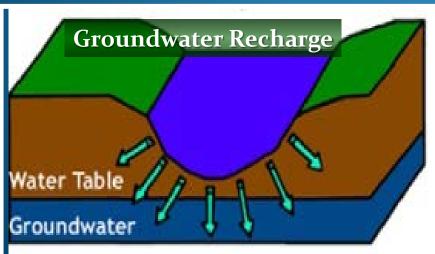
## **Beneficial Uses**

Beneficial Use	Carpinteria Salt Marsh	Santa Monica Creek	Franklin Creek
Municipal and Domestic Supply (MUN)		X	Х
Agricultural Supply (AGR)		Х	X
Ground Water Recharge (GWR)		X	Х
Water Contact Recreation (REC-1)	Х	X	Х
Non-Contact Water Recreation (REC-2)	X	X	X
Wildlife Habitat (WILD)	Х	X	Х
Cold Fresh Water Habitat (COLD)		Х	Х
Warm Fresh Water Habitat (WARM)	X	X	Х
Migration of Aquatic Organisms (MIGR)	X		Х
Spawning, Reproduction, and/or Early Development (SPWN)	Х	Х	X
Preservation of Biological Habitats of Special Significance (BIOL)	Х	X	
Rare, Threatened, or Endangered Species (RARE)	Х		Х
Estuarine Habitat (EST)	Х		
Freshwater Replenishment (FRSH)		Х	Х
Commercial and Sport Fishing (COMM)	Х	Х	Х

#### **Nutrient Pollution...**

What are we trying to protect?









# Water Quality Objectives

#### Municipal and Domestic Supply (MUN)

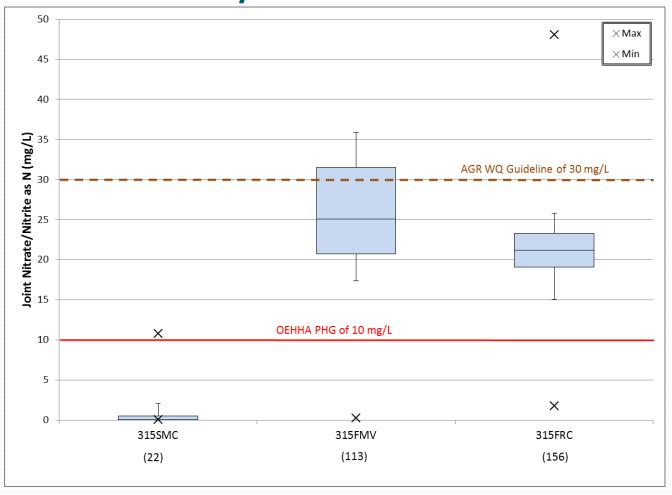
- The Basin Plan numeric water quality objective for nitrate (as nitrogen) is <u>10</u> mg/L
- OEHHA Public Public Health Goals (MCLs)
  - 10 mg/L nitrate as nitrogen
  - 10 mg/L for joint nitrate/nitrite as nitrogen
  - 1 mg/L nitrite as nitrogen

# Water Quality Guideline

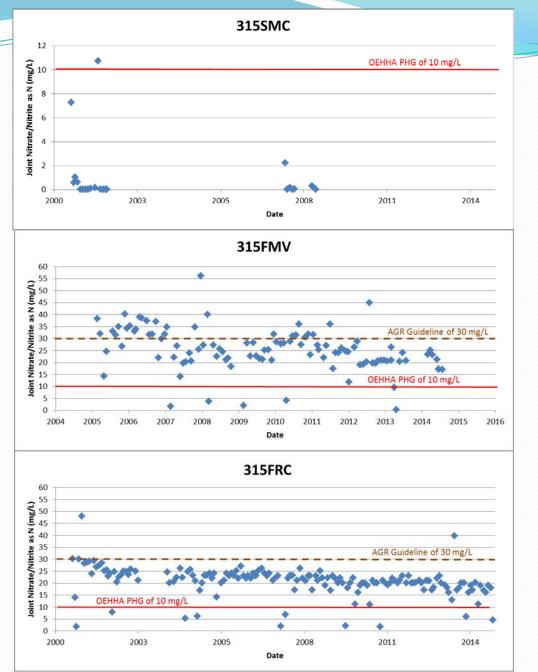
- The Basin Plan contains a nitrate concentration "guideline" of 30 mg/L nitrate as nitrogen to protect the Agricultural Supply (AGR) beneficial use,
  - Guideline developed by UC Ag Extension
     Services to avoid severe problems for sensitive crops (e.g., grapes, avocado, citrus, almonds, and others)



## Joint Nitrate/Nitrite Concentrations



Not shown 315FMV maximum concentration of 322 mg/L on 5/14/2006

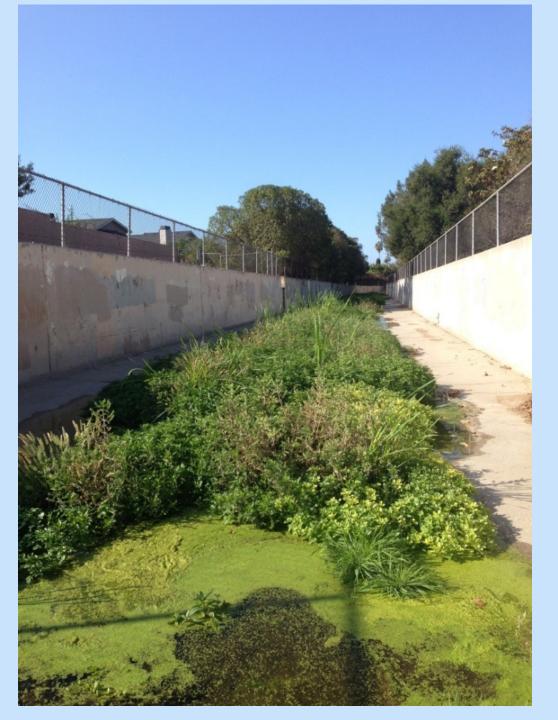


Not shown 315FMV maximum concentration of 322 mg/L on 5/14/2006

## Water Quality Objectives

Biostimulatory Substances (Nutrients)

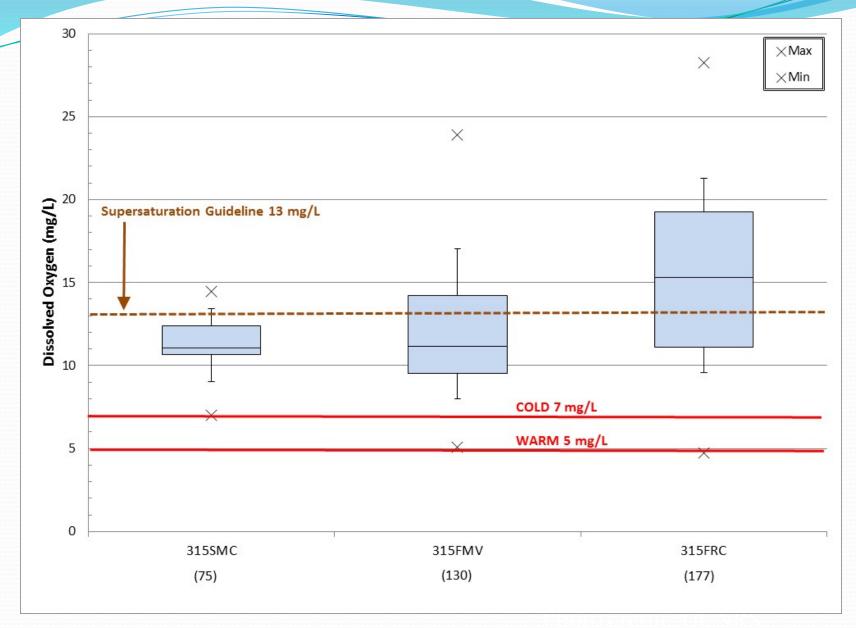
"Waters shall not contain biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect beneficial uses."



August 2014 315FMV

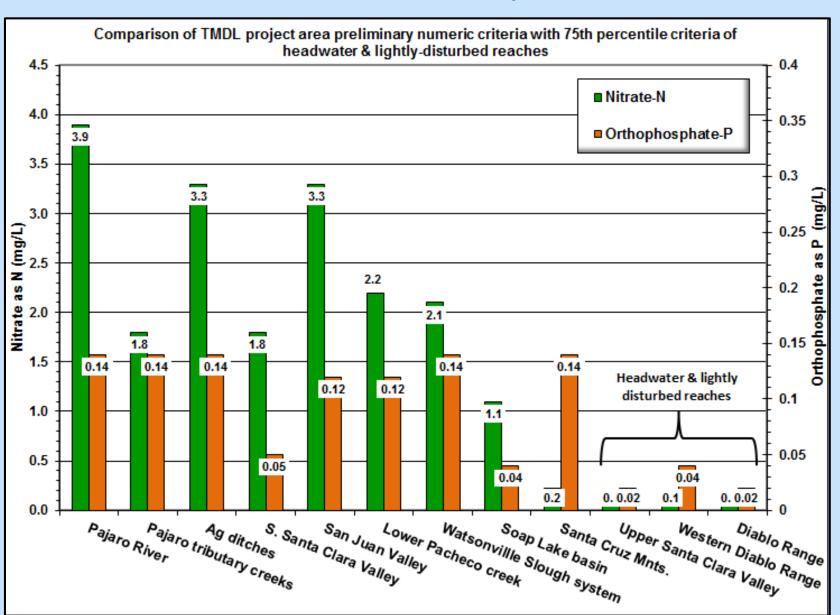


September 2010 315FRC

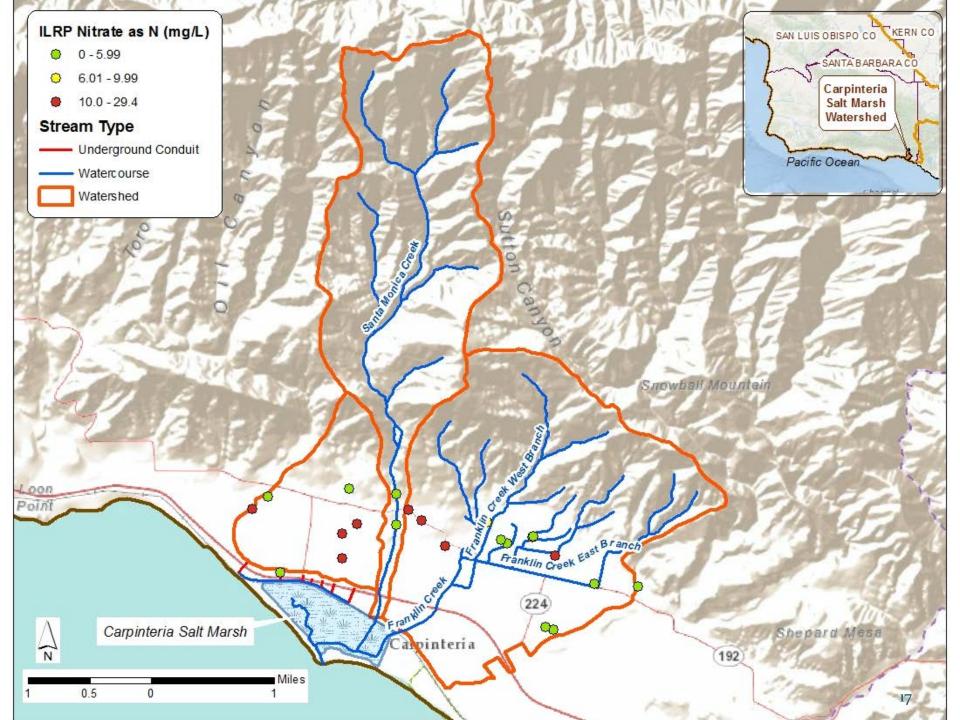


Box plots of dissolved oxygen concentrations (mg/L).

#### Example of Nutrient Targets to Prevent Biostimulation and Protect Aquatic Habitat



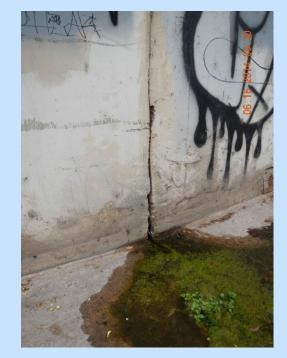




#### Potential Nutrient Sources

- Agricultural fertilizers
- Septic systems
- Groundwater (baseflow)
- Urban runoff
- Natural sources (atmosphere, geologic)
- Other???





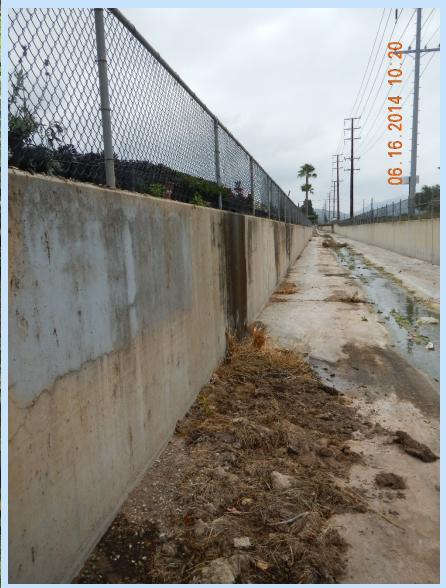












#### What's Next...

- TMDL documents for public review (October 2017)
- Meeting to discuss the TMDL documents (November 2017)
- Public comments due (December 2017)
- Water Board hearing for TMDL (March 2018)

# Questions/Comments

**Up Next - CEQA Scoping** 

# What is CEQA Scoping?

#### California Environmental Quality Act (CEQA)

- A statute requiring us to anticipate significant environmental impacts (if any) associated with an action or <u>project</u>, and to identify ways to mitigate those impacts if feasible
- Early public CEQA scoping is required by regulation:

23 CCR: CEQA Implementation Regulations, §3775.5

"Prior to circulating the draft substitute environmental documentation...the board shall seek early public consultation. Early public consultation may include one or more scoping meetings"

# **Project Description**

Adoption of a basin plan amendment to the Water Quality Control Plan for the Central Coastal Basin to incorporate TMDLs and an associated water quality improvement strategy addressing nutrients in Franklin Creek

# **CEQA Scoping**

Early public involvement assists Water Board staff in refining the scope of the TMDL project and determining the range of potentially <u>significant environmental impacts</u> TMDL implementation might have (if any) on environmental resources of the Franklin Creek watershed, and identifying feasible mitigation measures to reduce or minimize those anticipated adverse environmental impacts

## What are Significant Impacts?

#### Defined by regulation:

A "significant impact" causes a substantial or potentially substantial adverse change in physical conditions within the project area

#### CEQA "Checklist" Categories

The "checklist" refers to the environmental categories we need to consider. Could there be adverse environmental impact to them? If so, can we mitigate?

- 1. Aesthetics
- 2. Agricultural Resources
- 3. Air Quality
- 4. Biological Resources
- 5. Cultural Resources
- 6. Geology and Soils
- 7. Greenhouse Gas Emissions
- 8. Hazards & Hazardous Materials
- 9. Hydrology and Water Quality

- 10. Land Use and Planning
- 11. Mineral Resources
- 12. Noise
- 13. Population and Housing
- 14. Public Services
- 15. Recreation
- 16. Transportation/Traffic
- 17. Utilities and Service Systems
- 18. Cumulative impacts









- Agricultural Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Greenhouse gases
- Etc.



#### **CEQA Discussion/Brainstorm Table**

Means of compliance	Env. impacts due to means of compliance	Magnitude of Env. impacts	Alternative means of compliance that reduce Env. impacts	Mitigation measures to reduce Env. impact
Structural BMPs – Bio reactor	Construction type impacts - Land disturbance, removal of ag land uses, air emissions, dust	Could be significant depending on size of project, etc.		
Lined basin to collect returned irrigation h20				
Groundwater infiltration projects				
Diversion of water	Reduced flow, habitat loss			

