

# Item 4

## Total Maximum Daily Load for Indicator Bacteria in the Santa Clara River Estuary and Reaches 3, 5, 6, and 7

State Water Resources Control Board

October 4, 2011

# Public Comments

- Comments received
- Responses

# E.O. Corrections

- The Los Angeles Water Board Executive Officer initiated non-substantive corrections to the Basin Plan amendment for consistency and clarity on September 14, 2011.
- Included clarifying language that the cities and counties that have comingled storm water in the MS4 are only responsible for discharges from the municipal separate storm sewers for which they are operators and are responsible for implementing programs pertaining to such discharges to meet the waste load allocations in such comingled storm water. The corrections also clarifies that the Caltrans MS4 permit is assigned the same waste load allocations, monitoring and implementation requirements as the non-MS4 permittees.

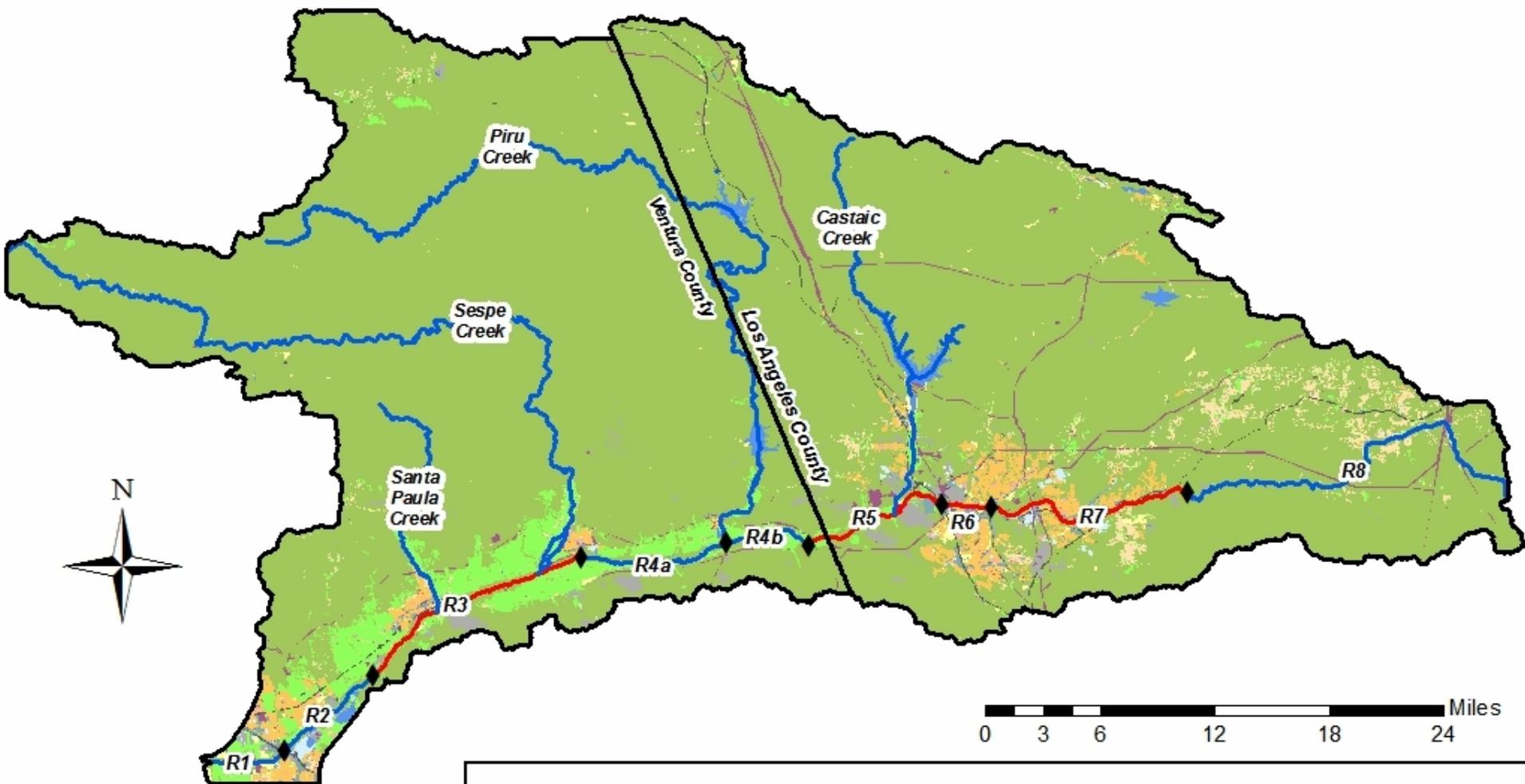
# Clarification

- “Permittees that discharge to Reaches 1 and 2 have WLAs based on allowable exceedance days for the Estuary. Permittees that discharge to Reach 3 or above have WLAs based on allowable exceedance days for Reaches 3, 5, 6, and 7” (Basin Plan Amendment Language pg. 3)
- “Sources that discharge to Reaches 1 and 2 have LAs based on allowable exceedance days for the Estuary. Sources that discharge to Reach 3 or above have LAs based on allowable exceedance days for Reaches 3, 5, 6, and 7.” (Basin Plan Amendment Language pg. 4)

# Recommendation

- Approval of the TMDL
- Questions

# The Santa Clara River Watershed



## Legend

- |                                   |                         |                |            |
|-----------------------------------|-------------------------|----------------|------------|
| Santa Clara River and Tributaries | Low Density Residential | Military       | Water      |
| Impaired Reaches                  | Commercial              | Transportation | Recreation |
| Reach Break                       | Industrial              | Mixed Urban    | Open Space |
| County Boundary                   | Public Facilities       | Agriculture    |            |
| High Density Residential          | Education               |                |            |

California Regional  
Water Quality Control Board  
Los Angeles Region  
320 W. 4th St., Suite 200  
Los Angeles, CA 90013  
July 8th, 2010

# Numeric Targets

Numeric Targets	Estuary (Marine REC-1)	Reaches 3, 5, 6 and 7 (Freshwater REC-1)
<i>Single Sample</i> <i>E. coli</i> Fecal coliform Enterococcus Total coliform*	NA 400/100ml 104/100ml 10,000/100ml	235/100ml NA NA NA
<i>Geometric mean</i> <i>E. coli</i> Fecal coliform Enterococcus Total coliform	NA 200/100ml 35/100ml 1,000/100ml	126/100ml NA NA NA

\*Total coliform density shall not exceed 1,000/100 ml, if the ratio of fecal-to-total coliform exceeds 0.1

NA: not applicable.

# Reference System/ Antidegradation Approach

- Recognizes natural sources of bacteria, which may cause/contribute to single sample objective exceedances
- Reference system not impacted by human activities
- Allows exceedance frequency based on reference system(s)
- Ensures bacteriological water quality in Santa Clara River is at least as good as that of a reference system
- Used in 6 previous Bacteria TMDLs in region

# Allowable Exceedance Days

Reference System	Reaches 3, 5, 6, & 7		Estuary		
	Dry Weather	Wet Weather	Summer Dry-Weather (April 1 - October 31)	Winter Dry-Weather (November 1 - March 31)	Wet Weather
% WQO Exceedance Probability	1.6%	19%	4.7%	13.4%	30%
Allowable Exceedance Days of Single Sample Objectives	5	16	10	12	25

# Sources and Allocations

- Waste load allocations
  - MS4
  - POTWs
  - Other NPDES sources
- Load allocations
  - Irrigated agriculture
  - Other nonpoint sources
- Interim allocations for MS4 and nonpoint sources

# Implementation Schedule

- 11 years for dry weather
- 17 years for wet weather



# MS4 Compliance Determination

- Outfall monitoring
- In-stream monitoring
- Compliance based on allowable number of exceedance days
  - Alternative compliance based on allowable load in wet weather

# Recommendation

- Approval of the TMDL
- Questions