### 2008 INTEGRATED REPORT FOR THE SANTA ANA REGION

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#### ENVIRONMENTAL SCIENTIST Santa ana regional water quality control board April 24, 2009



#### **Presentation Outline**

Regulatory Background
Defining the Integrated Report
Integrated Report Summary
Comments Received after April 10, 2009
Next Steps

### **Regulatory Background**

Clean Water Act Section 305 (b) requires States to biennially prepare and submit to the US EPA for approval a report assessing statewide surface water quality

#### **Regulatory Background**

Clean Water Act Section 303 (d) requires States to develop and submit to US EPA for approval a list of waterbodies that are not meeting water quality standards (WQS) and are not expected to attain these standards even with technology based controls

> WQS = Beneficial Use + Water Quality Objectives + Antidegradation Policy



#### **Defining the Integrated Report**

## Combines the CWA Section 305 (b) Report with the Section 303 (d) List of Impaired Waters

# Categorizes the water bodies assessed into 5 categories

#### **Integrated Report Categories**

Category 1: Water bodies meet all water quality standards and no use is threatened

Category 2: Water bodies meeting <u>some</u> water quality standards but with insufficient data and information to determine if other water quality standards are met

Category 3: Insufficient data and information are available to determine if <u>any</u> water quality standard is being attained.

#### **Integrated Report Categories**

Category 4: One or more water quality standards are impaired or threatened but a TMDL is not required if any of the following is true:

- \* 4a TMDL already approved or established by EPA
- 4b Implementation of other pollution control requirements is expected to attain water quality standards
- \* 4c Water body impairment is not caused by a pollutant

#### **Integrated Report Categories**

Category 5: Water body is impaired, does not attain the water quality standard and a Total Maximum Daily Load (TMDL) is needed.

*TMDL is a calculation of the maximum amount of a pollutant that a waterbody can receive and still safely meet water quality standards* 

TMDL = Waste Load Allocation (Point Sources) + Load Allocation (Non Point Sources) + Margin of Safety



#### **Integrated Report Preparation**

Reviewed the data in accordance with the State's Listing Policy

- Consulted with stakeholders, Regional and State Board staff
- Presented preliminary Integrated Report at January 23, 2009 Regional Board Meeting
- Continued meetings and discussions with stakeholders
- Revised the preliminary Integrated ReportBoard Hearing April 24, 2009

#### **Comments from the Public**

Center for Biological Diversity
Orange County Coastkeeper/Inland Waterkeeper
Orange County Public Works
Surfrider Foundation
Mr. Irwin Haydock
Santa Ana River Dischargers Association
Riverside County Flood Control District

Proposed Additions to the 303 d List (Category 5)

- Bolsa Chica Channel ammonia
- Borrego Creek (downstream of Irvine Blvd) ammonia
- \* East Garden Grove Wintersburg Channel ammonia
- Newport Slough enterococcus
- ✤ Peters Canyon Channel pH
- ✤ Serrano Creek pH
- > TMDLs as soon as possible but no later than 2021

Proposed Additions to the 303 d List (Category 5)

Chino Creek Reach 1b – COD
Chino Creek Reach 2 – pH
City Creek – mercury and cadmium
Cucamonga Creek Reach 1 – pH, copper, zinc
Cucamonga Creek Reach 2- pH
Lake Elsinore – sediment toxicity

> TMDLs as soon as possible but no later than 2021

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Proposed Additions to the 303 d List (Category 5)

- \* Rathbone Creek cadmium & copper
- \* San Antonio Creek pH
- Santa Ana River Reach 3 copper (wet season)
- \* Temescal Creek Reach 1 pH

> TMDLs as soon as possible but no later than 2021

**\***Deletions from the 303 d List

 \* Big Bear Lake – sediment/siltation and metals
 \* Grout Creek - copper

**\***San Diego Creek Reach 2 - metals



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One or more WQS impaired but no TMDL needed (Category 4a)

• Newport Bay – bacterial indicators

\*Waterbodies with insufficient quantity or quality of data to determine if any WQS is being attained -(Category 3)

o Chino Creek Reach 1a - pesticides
o San Sevaine Creek – pH, chloride, TDS, sodium, sulfates, total nitrogen

Waterbodies meeting some WQS but not enough information to determine if other WQS are met (Category 2)

- **×** Bolsa Chica State Beach
- × Bonita Creek
- **×** Crystal Cove State Park
- Huntington Beach State Park
- **×** Huntington City Beach
- × Huntington Harbour
- × Mill Creek (Prado Area)
- × Newport Beach
- × San Timoteo Creek
- × Santiago Creek Rch 1 & 4
- × Seal Beach
- × Sunset Beach

## Waterbodies meeting all WQS (Category 1)

- None of the 60 waterbodies assessed

- Possibly because monitoring has been focused in problem areas

#### **Comments Received after April 10, 2009**

\* "Bolsa Chica Channel and East Garden Grove Wintersburg Channel listings for ammonia should be limited to the tidal prism" Orange County Public Works

Consider the effects of fires in assessing Lake Elsinore's sediment toxicity data (map depicting locations of fires submitted) - Riverside County Flood Control District

### **Comments Received after April 10, 2009**

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Recommendations on how to assess metals data submitted by the Santa Ana River Dischargers Association

- ✤ Use of translators
- **\*** Use of mercury fish tissue data in lieu of water column concentrations
- Use of a site specific aluminum threshold rather than EPA's recommended criteria
- \* Consideration of the effects of fires in assessing metals data
- **\*** Use of chronic criteria to assess metals data in dry weather
- Samples collected during El Nino storms should not be used in the assessment
- Samples collected in close temporal proximity should be averaged when comparing to the chronic metals' standards



If approved by the Regional Board, the Integrated Report will be transmitted to the State Board with all the associated information

State Board will review and approve the Integrated Reports from each Regional Board and will transmit them to US EPA for their approval

Next Integrated Report cycle (2010) will begin at the end of this year

#### **Errata Sheet**

Included in your package is a recently added errata sheet. This errata sheet amends Resolution No. R8-2009-0032 in that it gives the Executive Officer the authority to make non-substantial changes to the water quality assessment database prior to transmitting it to the State Board.
Delete the City Creek Listing for cadmium and mercury



#### **Staff Recommendation**

Adopt Resolution No. R8-2009-0032 approving the 2008 Integrated Report including the 303 (d) List of Impaired Waters as presented and as amended by the errata sheet

Direct staff to transmit the Integrated Report to the State Board and associated information