# Kickoff Meeting Salt & Nutrient Management Plan (SNMP) for

## Groundwater Basins Within Upper Los Angeles River Area (ULARA)

November 19, 2013 9:00am to 11:00am

#### Location:

LADWP Valley Center 14401 Saticoy Street – Bldg 7 2<sup>nd</sup> Floor, Van Nuys, 91405

#### **AGENDA**

<u>ltem</u>	<u>Lead</u>	Approximate Start Time	Approximate <u>Duration</u>
Sign-In	Facilitator	9:00am	30 Minutes
Introduction & Opening Remarks	Facilitator	9:30am	10 Minutes
ULARA and its Groundwater Basins	Watermaster	9:40am	20 Minutes
Overview of SNMP Programs	LARWQCB	10:00am	20 Minutes
Development of SNMPs for ULARA	Assistant Watermaster	10:20am	15 Minutes
Questions	Facilitator	10:35am	25 Minutes



Presented at the Kickoff Meeting
for the

Salt & Nutrient Management Plan (SNMP)
For ULARA

November 19, 2013

Presented by: Richard C. Slade ULARA Watermaster

JPPER LOS ANGELES RIVER AREA WATERMASTER

#### **Definition:**

#### Upper Los Angeles River Area (ULARA)

- A. An area created by adjudication in the case of City of Los Angeles vs. City of San Fernando, et al.
- B. Key results of Court Judgment dated January 1979
  - Defined the watershed boundaries
  - Identified 4 Groundwater Basins within ULARA
  - Established Parties to the Judgment
  - Established pumping rights for those Parties
  - Created a Court-appointed Watermaster.



## Definition: Upper Los Angeles River Area (ULARA) cont.

- C. ULARA Boundaries
  - Includes upper portion of the Los Angeles River and its tributaries
  - Includes 4 Groundwater Basins (aka, Valley Fill Areas)
  - Total ULARA Surface Area = 328,500 acres
  - Total Surface Area of Groundwater Basins = 122,800 acres
  - Total Surface Area in Watershed = 205,700 acres



## Definition: Upper Los Angeles River Area (ULARA) cont.

- D. Principal Parties to the Judgment
  - City of Burbank
  - City of Glendale
  - City of Los Angeles
  - City of San Fernando
  - Crescenta Valley Water District

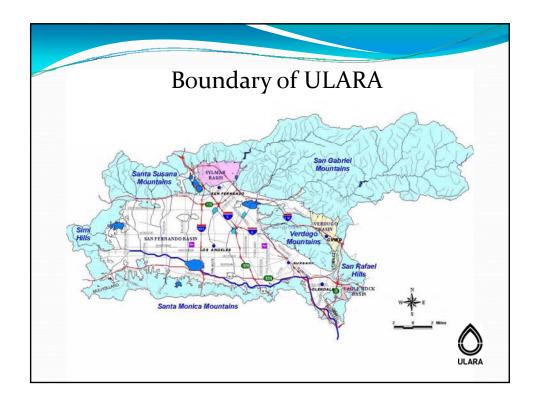


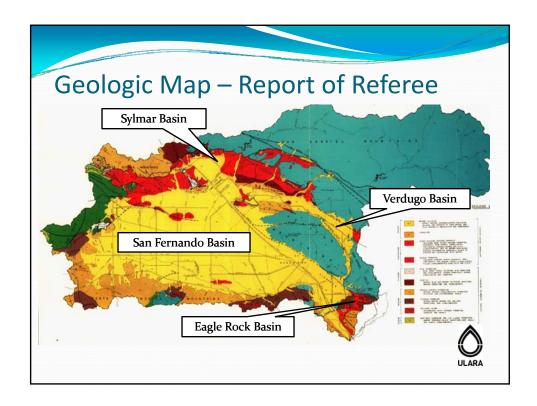
### **ULARA Groundwater Basins**

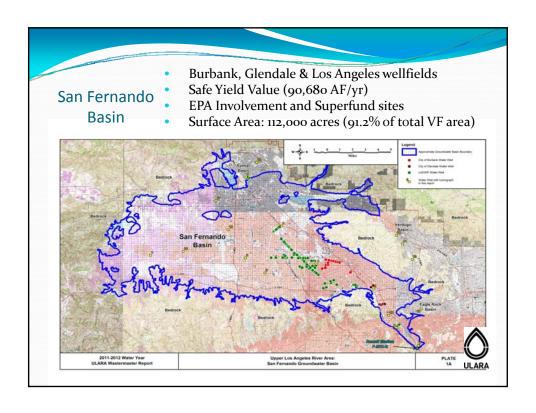
- San Fernando
- Sylmar
- Verdugo
- Eagle Rock

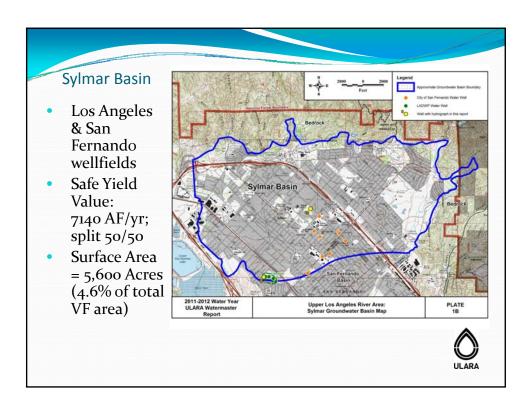
Total surface area of these four groundwater basins (i.e., the Valley Fill, VF) = 122,800 acres

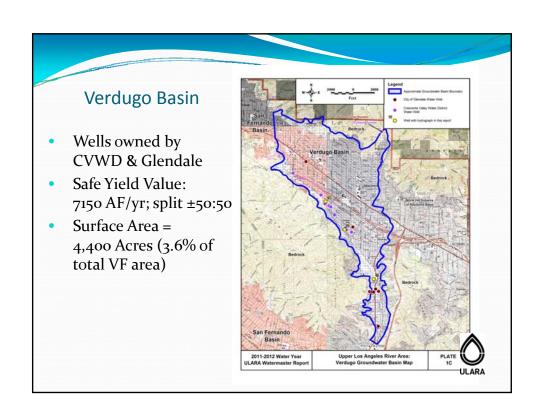
Note: These court-adjudicated groundwater basins are considered separate for the purposes of the Judgment. State DWR (Bulletin 118, Update 2003) includes all 4 of these basins within its "San Fernando Valley Groundwater Basin".

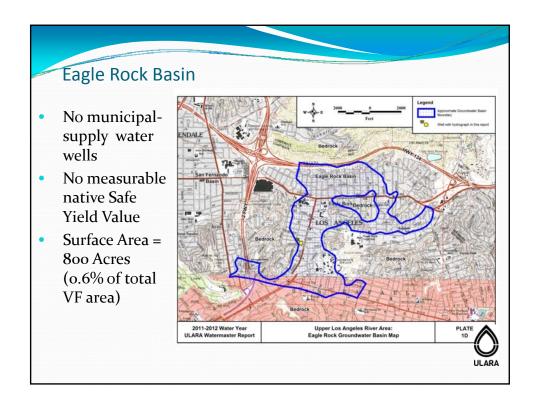


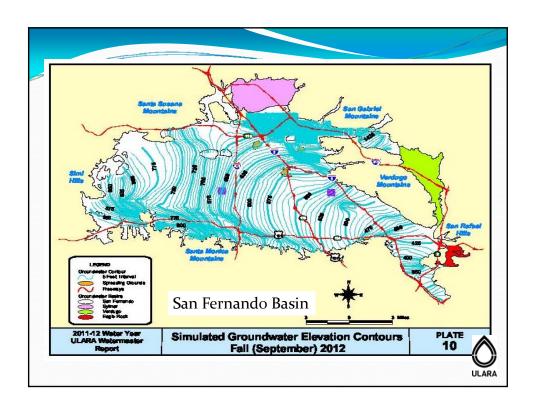












## **Contact Information**

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## Overview of Salt and Nutrient Management Plan (SNMP)

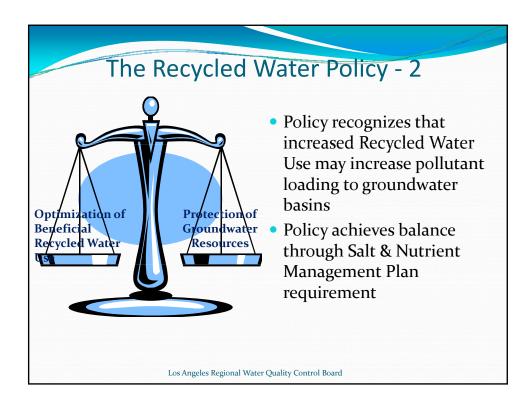
#### Los Angeles Regional Water Quality Control Board

Presentation for the ULARA Watermaster Public Information Meeting
November 19, 2013

## The Recycled Water Policy



- Adopted February 2009
- Supports Strategic Plan
   Priority to promote
   sustainable local water supply
  - Optimize recycled water use
- Ensure long term beneficial use of water
  - Protect basin water quality



### Salt and Nutrient Management Plan

- SNMP Requirements:
  - Locally driven and controlled collaborative stakeholder-led process
  - Every Basin/Sub-basin within the state
  - Address Water Quality Concerns
    - · Basin-wide monitoring programs
  - Annual CEC Monitoring
  - Water Recycling/Stormwater Recharge
  - Source Identification/Assimilative Capacity/Loading
  - Implementation Measures
  - Antidegredation Analysis
  - Other Considerations
    - · Compliance with CEQA

### Stakeholder Process

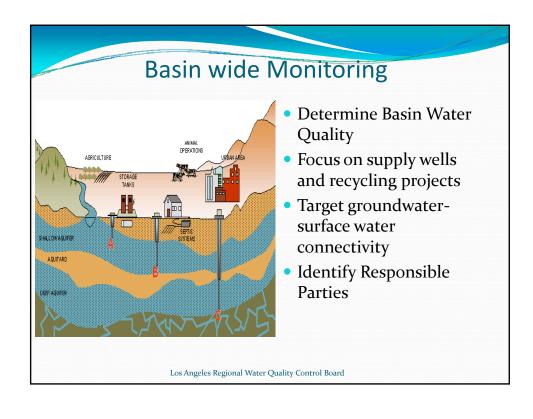


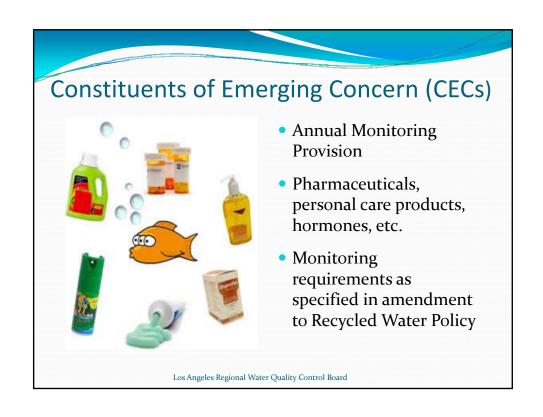
- Collaborative process
  - Local water and wastewater entities
  - Local salt/nutrient contributing stakeholders
  - Open to all stakeholders
- Locally driven and controlled
- Stakeholder funded
  - Including compliance with CEQA
- Regional Board Participation

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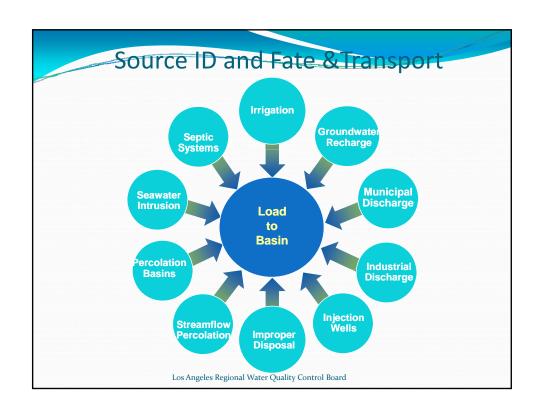
## Salt and Nutrient Management Plan (SNMP) Requirement

- SNMPs for every basin/sub-basin in the state
  - Consistent scope, detail dependent on site-specific factors
  - May address constituents other than salts and nutrients
  - Inclusion of stormwater recharge/ reuse component is critical
  - Completion by 2014
  - Implementation measures to be considered by Regional Water Boards as potential Basin Plan Amendments



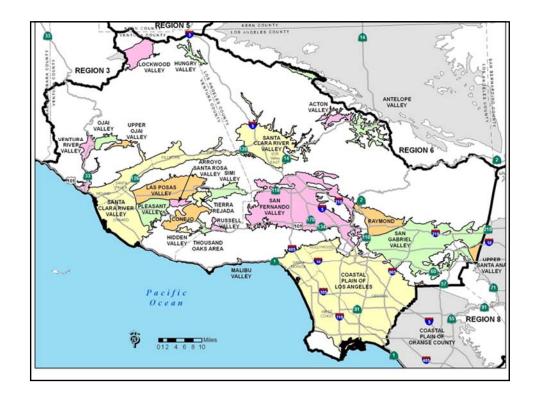






## Implementation Strategies/ Anti-degradation/CEQA Analyses

- Implementation Strategies
  - Pollution prevention, source load reduction, treatment and management, stormwater recharge, increased recycled water use
- Anti-degradation Analysis
  - Where strategies measures impact water quality
  - Maximum benefit analysis
- CEQA Analysis
  - Programmatic Level (not project-specific)
  - Consider alternative management strategies
  - Develop mitigation measures for potential impacts







- What are the beneficial uses?
  - Municipal/domestic supply (MUN), Industrial service supply (IND), industrial process supply (PROC), Agricultural supply (AGR)
- Basin Plan Salt and Nutrient Objectives
  - TDS, SO<sub>4</sub>-2, Cl-, Boron, Nitrogen
- What are the primary water quality issues?
  - Nitrates (NO<sub>3</sub><sup>-</sup>), sulfates (SO<sub>4</sub><sup>-2</sup>)
  - Volatile organic compounds (VOCs) PCE, TCE
  - Heavy metals (e.g., hexavalent chromium)

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#### Stakeholders' Role

- Compile existing data
- Identify and fill data gaps
- Develop Salt & Nutrient Management Plan
  - Implementation & mitigation measures
  - Monitoring program
- Conduct antidegredation (where necessary) and CEQA analysis

## Regional Board's Role

- Facilitate interaction and information sharing
- Regulatory Assistance on SNMP Requirements
- Technical and Regulatory Oversight
  - Maintain consistency in scope and content
  - Ensure Compliance with Policy Requirements
- Incorporate Implementation strategies into Water Quality Control Plan

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#### **Regional Board SNMP Facilitation Efforts**

- SNMP Annual Stakeholder Workshops Nov 2010,2011,2012,2013
- SNMP webpage, E-mail subscription Dec 2010
- Staff contacts for SNMP Stakeholders Feb 2011
- Guidance Document clarifying SNMP Requirements of Recycled Water Policy March 2012
- Participation in stakeholder planning process (multiple basins) Continuous since 2010

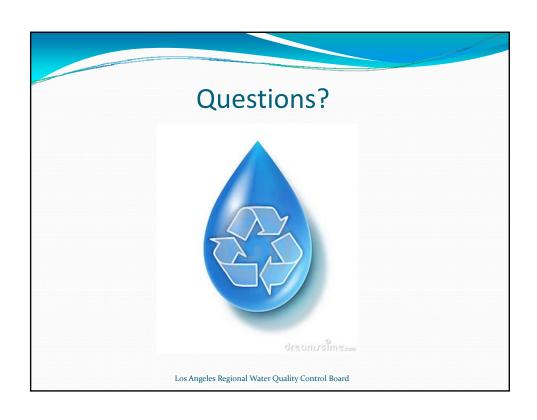
## Salt and Nutrient Management Plan

- Sources of additional information:
  - Regional Board SNMP Webpage:
    - http://www.waterboards.ca.gov/losangeles/water\_issues/programs/salt\_ and\_nutrient\_management/index.shtml
  - E-mail List Subscription:
    - http://www.waterboards.ca.gov/resources/email\_subscriptions/reg4\_subscribe.shtml
  - GAMA Website:
    - http://www.waterboards.ca.gov/water\_issues/programs/gama/
  - SWRCB Recycled Water Policy:
    - http://www.waterboards.ca.gov/water\_issues/programs/water\_recycling \_policy/index.shtml

Los Angeles Regional Water Quality Control Board

#### **Contact Information**

- Steve Rowe, LA-RWQCB
  - (213) 576-6755
  - Steve.Rowe@waterboards.ca.gov
- Lawrence Moore, LA-RWQCB
  - (213) 576-6730
  - <u>Lawrence.Moore@waterboards.ca.gov</u>
- Ginachi Amah, LA-RWQCB:
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  - Ginachi.Amah@waterboards.ca.gov



## Salt & Nutrient Management Plan Development

**Upper Los Angeles River Area (ULARA)** 

Presented at the Kickoff Meeting for the Salt & Nutrient Management Plan (SNMP) For ULARA

November 19, 2013

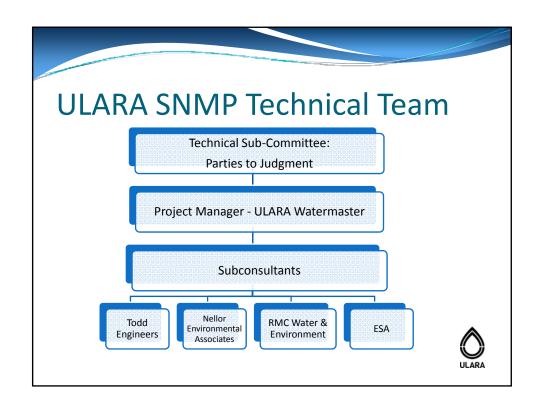


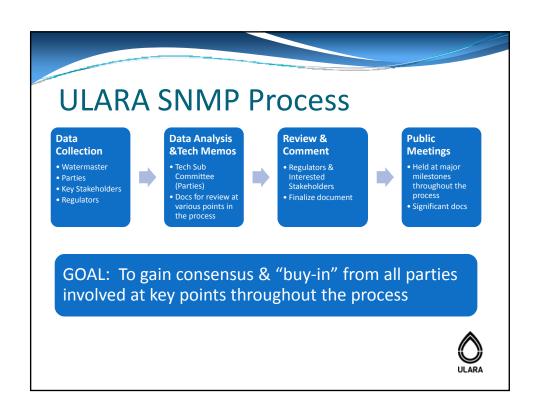
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### **ULARA SNMP Discussion**

- Introduce Technical Team
- How will the Process Work?
- Introduce Elements of the Plan
- Current Status of our Work
- How to Stay Involved
- More Information







#### **ULARA SNMP Plan**

- Identify Salt and Nutrient (S/N) Water Quality Issues
  - Define "Baseline" groundwater quality
  - Characterize quality of imported water, recycled water, stormwater, etc.
  - Define what constituents will be managed
    - Example: VOCs and chromium not a part of SNMP
    - Handled by other agencies (EPA, DTSC, RWQCB, etc.)
- Estimate changes in S/N concentrations in the groundwater basins (GWB) due to current practices and projects
- Define management goals vs. monitoring goals
  - Create a Monitoring and Management Plan for S/N in ULARA GWRs
  - Create a Monitoring Plan for CECs in ULARA GWBs

#### **ULARA SNMP Plan**

- Estimate changes in S/N concentrations in the GWBs due to planned/future practices and projects
  - LADWP's proposed San Fernando Valley Groundwater Remediation facilities
  - City of Los Angeles Groundwater Replenishment Project
  - Various stormwater infiltration projects, LID projects, etc.
  - Plans for increased recycled water use for irrigation in GWBs



## **SNMP Team Roles**

- Technical Sub-Committee
  - History: multiple organizational meetings with the "core group" (aka the "tech sub committee") have occurred
  - LARWQCB has been kept abreast of these meetings
  - Tech subcommittee to perform most work/data collection
- Subconsultants selected as of November 2013
  - RMC Water and Environment
  - Todd Engineers
  - Nellor Environmental Associates
  - Environmental Science Associates
  - Each has prior SNMP experience



## **Data Collection**

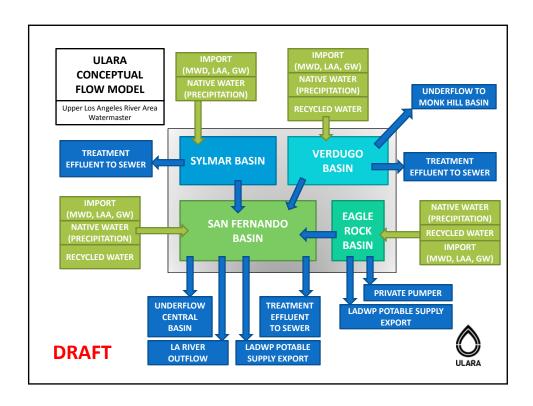
- Data collection ongoing
- Import/extraction volume data all well-accounted for due to annual Watermaster Reports
- Modeling input parameters from ULARA Report of Referee 1969
- Challenges to date:
  - Water quality data not in a central location
  - 10-year "look back" difficult due to data limitations for some Parties
    - Database limitation, paper data, etc
  - Imported water quality breakdown



## **SNMP Status - ULARA**

- Public Outreach
  - Significant effort by Tech Subcommittee to notify key stakeholders and other interested parties
    - Email "blast" by RWQCB on behalf of ULARA Watermaster
    - Creation of email list based on experience of the Parties and their own mailing lists.
- Defining Key Concepts

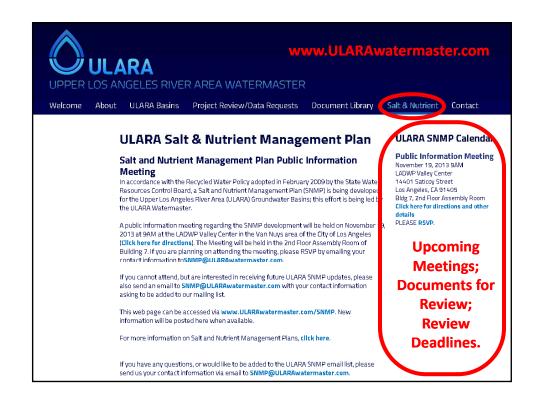






## How to Stay Involved

- Join email list
  - SNMP@ULARAwatermaster.com
- Visit ULARA SNMP Website
  - www.ULARAwatermaster.com/SNMP
- Review technical documents as they become available
  - Will be available for download on the website
  - Emails will announce the posting of new documents
- Attend meetings
  - Significant Documents
  - Meeting agendas and notes will be available on the website



### **More Information**

- Burbank: www.burbankwaterandpower.com
- City of San Fernando: www.sfcity.org
- Crescenta Valley Water District: www.cvwd.com
- Glendale: www.glendalewaterandpower.com
- Los Angeles: www.ladwp.com
- Geotracker: www.geotracker.waterboards.ca.gov
- RWQCB SNMP Page:
  - www.swrcb.ca.gov/losangeles/water\_issues/programs/salt\_and\_nutrient\_management
- EPA San Fernando Valley: yosemite.epa.gov/r9/sfund/r9sfdocw.nsf/vWSOAlphabetic?openview
  - Click on San Fernando Valley
- ULARA Watermaster: www.ULARAwatermaster.com

### **Contact Information**

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## **Question Card**

## Kickoff Meeting ULARA Salt & Nutrient Management Plan

November 19, 2013

Do you have any further questions question about the ULARA Salt and Nutrient Management Plan (SNMP) development process? Do you have any outstanding issues or concerns that you might want to be addressed/clarified?

Please fill out this form and fax to 818.506.1343, or email to <a href="mailto:SNMP@ULARAwatermaster.com">SNMP@ULARAwatermaster.com</a>.

Name:	Organization:
Phone:	Email:
Questions/Comments:	
1.	

2.