An aerial photograph of a wide river channel with a bridge in the distance. The river is flanked by concrete banks. In the background, there are mountains and several high-voltage power line towers. A blue semi-transparent banner is overlaid on the middle of the image, containing the title text.

# Los Angeles Regional Water Quality Control Board Watershed Management Programs (WMPs) Workshop

## Los Angeles River Upper Reach 2 (LAR UR2) Watershed Management Area (WMA)

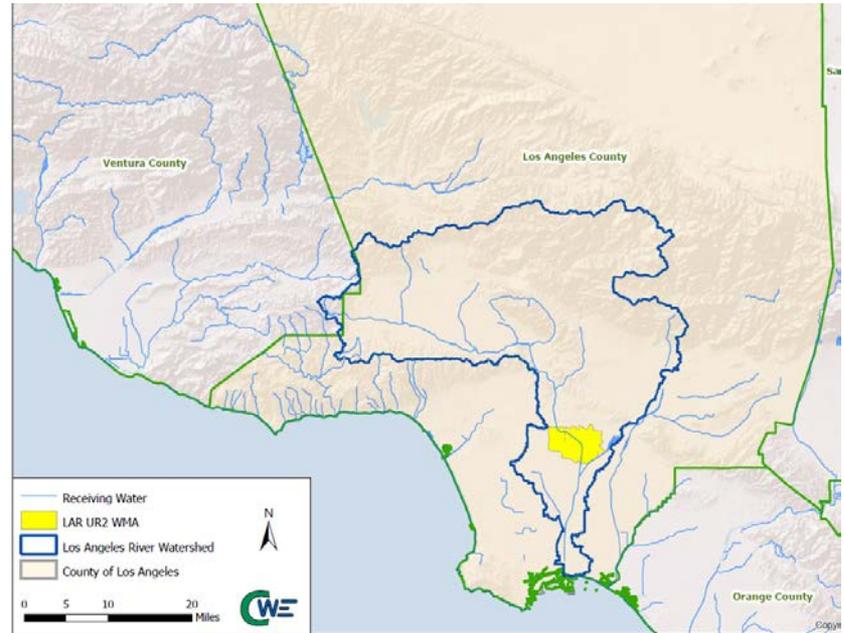
October 9, 2014

# LAR Upper Reach 2 Overview

## ➤ Cities

- Bell
- Bell Gardens
- Commerce
- Cudahy
- Huntington Park
- Maywood
- Vernon

## ➤ Los Angeles County FCD



Primary Receiving Waters:  
Los Angeles River Reach 2  
Rio Hondo Reach 1  
22.2 square miles (2.7%) in the  
824 square mile LAR watershed

# Water Quality Priorities

## ➤ Category 1

- Nutrients (deadline was in 2004)
- Trash (Full Capture compliant by 10/1/2016)
- Copper, Lead, & Zinc (future Permit terms, [2024/28](#))
- Bacteria or *E. coli* (future Permit terms, [2030/37](#))

## ➤ Category 2

- Oil
- pH (nutrient related?)
- Toxicity (metals related?)

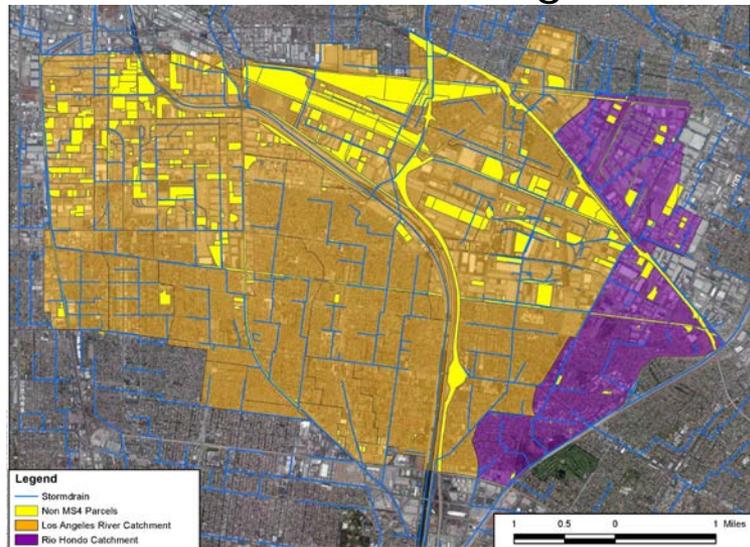


## ➤ Category 3

- No MES/Trib data from relevant receiving waters

# Pollution Reduction Strategy

- Trash-Nearing full capture compliant implementation
- Other pollutants-Implement Watershed Control Measures (WCMs) including: LID Ordinances, Green Street Policies, LID Street Designs
- RAA analysis
  - Exclude parcels in other programs/permits from analysis
  - Conceptualize Regional BMPs
- Distributed BMPs in areas, where regional BMPs are difficult to site



# RAA for Los Angeles River *E. coli*

Los Angeles River baseline *E. coli* bacteria loading 997 Trillion (MPN)  
 Allowable loading of *E. coli* after AE & HFS days 708 Trillion (MPN)  
 Year 2037 *E. coli* Target Load Reduction (TLR) **289** Trillion (MPN)

| Pollutant Load Reduction Strategies  | Average    |
|--|------------|
| <b>Watershed Control Measures, BMPs, MCMs</b>                                      |            |
| Other Regulatory Programs (Individual/General NPDES Permittees, Caltrans, Federal) | 77         |
| Non-modeled and Non-structural WCMs (implementation, inspection, enforcement)      | 50         |
| <b>Distributed Structural BMPs</b>   |            |
| LID Ordinance Based Redevelopment (~0.25%/year to 2037)                            | 31         |
| Green Streets and LID Streets in 25% of Residential and Commercial Areas           | 72         |
| <b>Conceptual Regional Structural BMPs</b>   |            |
| Randolph Street Greenway or cistern (R BMP #1)                                     | 6          |
| Los Angeles DWP Transmission Lines (R BMP #2)                                      | 3          |
| Rosewood Park(R BMP #4)  | 31         |
| Lugo Park (R BMP #6)   | 13         |
| Salt Lake Park (R BMP #7)  | 24         |
| <b>Total BMP Load Reduction</b>  | <b>307</b> |

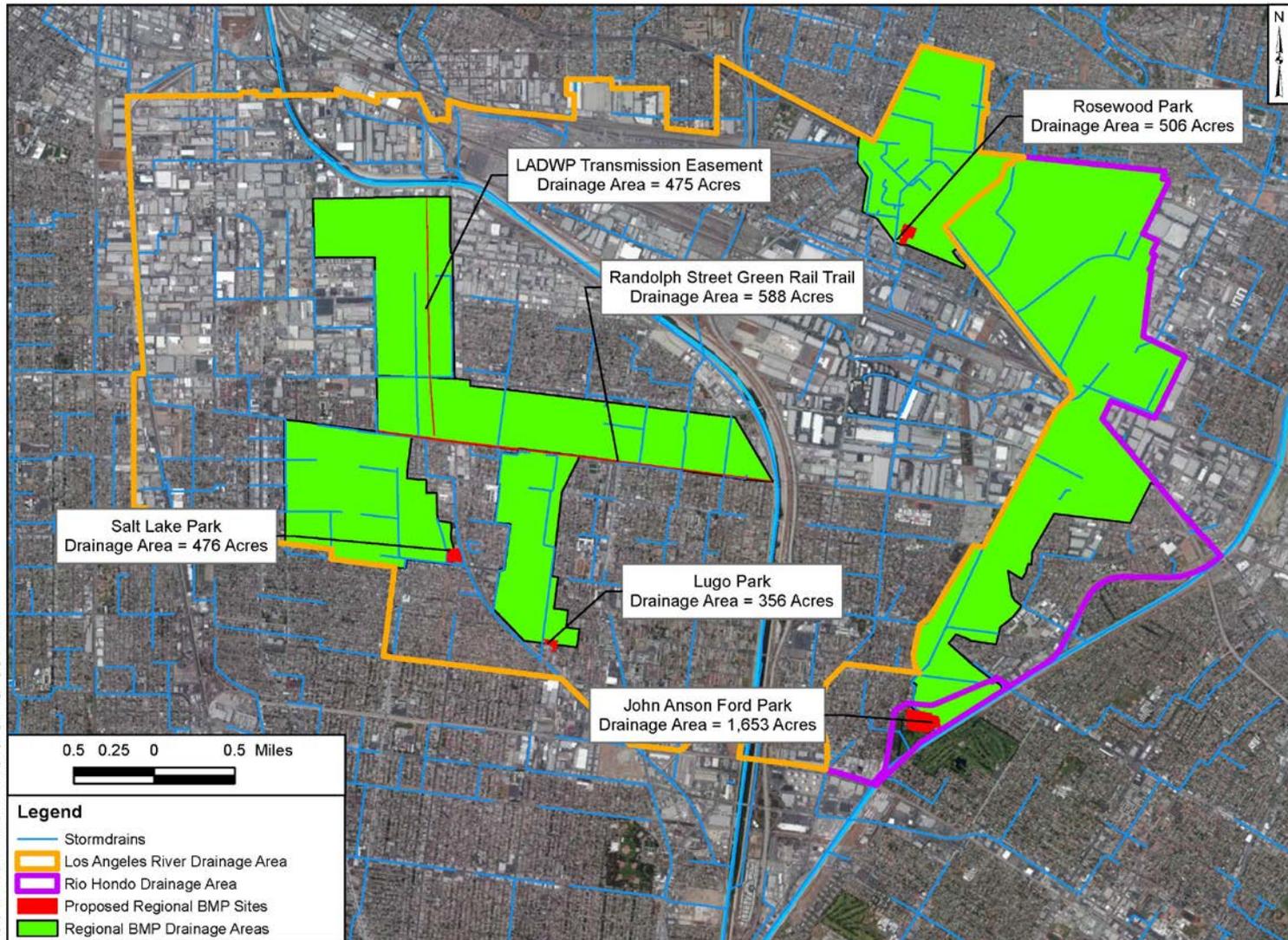


# Watershed Control Measures

- LID Ordinance Adopted by: Bell, Bell Gardens, Commerce, Huntington Park, Maywood, and Vernon
- Green Streets Policy in place for: Bell, Bell Gardens, Commerce, Huntington Park, Maywood, and Vernon
- Customized Minimum Control Measures (MCMs) include revisions of future Municipal Service Contracts to include
  - Low velocity weekly street vacuuming (parking enforcement)
  - Implementation of improved inspection tracking software
  - Enhanced catch basin (CPS/ARS) maintenance schedules
- Non-structural BMPs & Source Controls
  - Additional BMPs targeted during Critical Source Inspections
- Structural BMPs (in addition to Regional BMPs)
  - Evaluating alternative LID Street designs



# RAA Modeled Regional BMPs

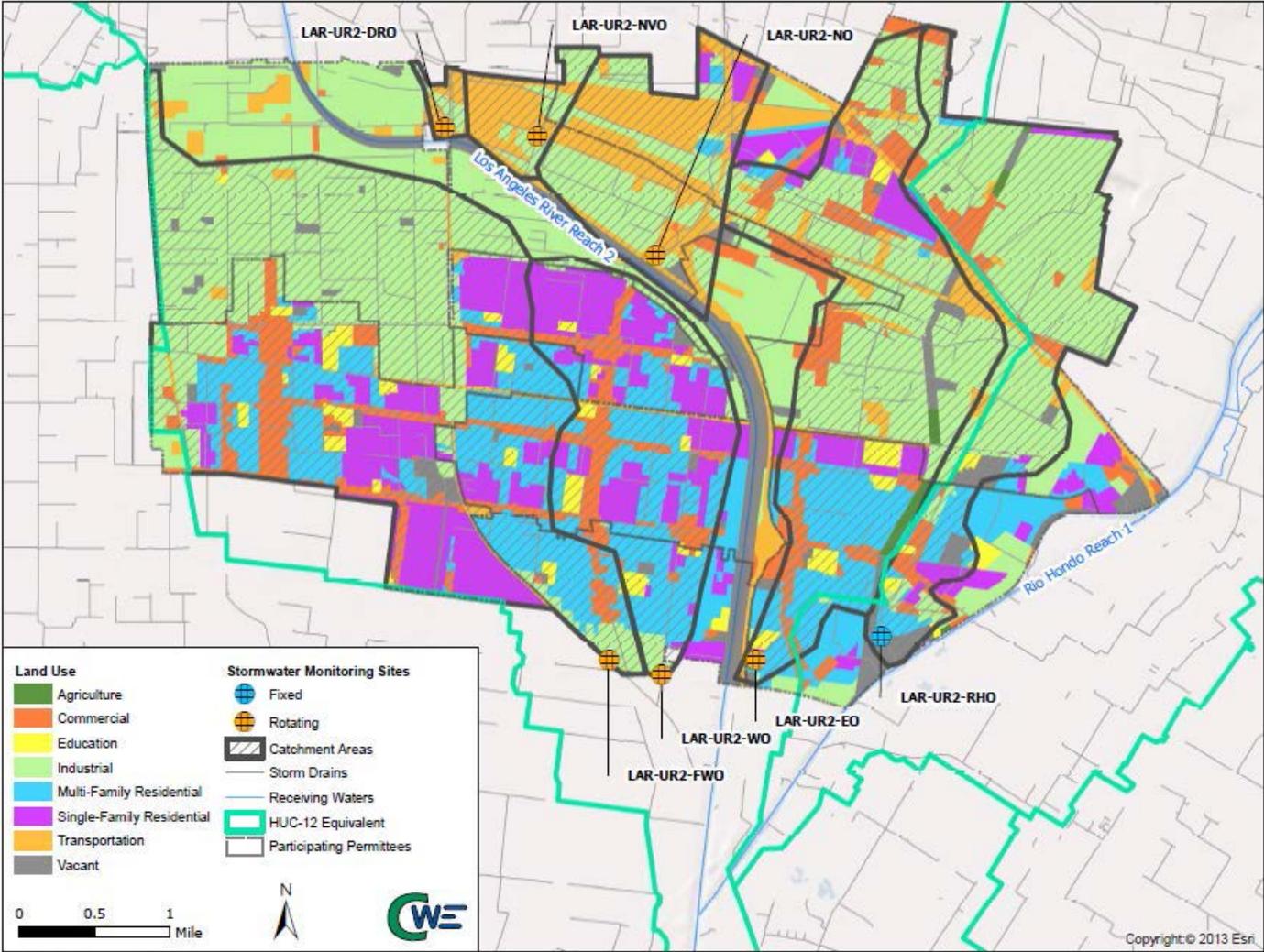


# RAA Implementation Schedule

| BMP Program or Project                                   | RAA assumes BMP is implemented by:   |
|--|--|
| LID Ordinance Based Redevelopment (~0.25%/year to 2037)  | June, 2014 through March, 2037<br>(interim milestones assume linear progress towards load reduction) |
| LID and Green Streets in the Los Angeles River           | June, 2014 through March, 2037<br>(50% implementation by March, 2030)                                |
| Increased Non-MS4 Parcel Inspections and Education       | June, 2017 (MS4 Permit Report of Waste Discharge)  |
| <b>John Anson Ford Park (R BMP #3)</b>                   | January, 2024 (Dry-weather), 2028 (Wet-weather)  |
| Non-Modeled Non-Structural BMPs                          | January 2028   |
| Brake Pad Reformulation (legislation currently codified) | January 2028   |
| <b>Randolph Street Greenway or cistern (R BMP #1)</b>    | January 2028   |
| Los Angeles DWP Transmission Lines (R BMP #2)            | January 2030   |
| <b>Rosewood Park (R BMP #4)</b>                          | January 2030   |
| <b>Lugo Park (R BMP #6)</b>                              | March 2037   |
| <b>Salt Lake Park (R BMP #7)</b>                         | March 2037   |



# CIMP Rotating Monitoring Site Rational

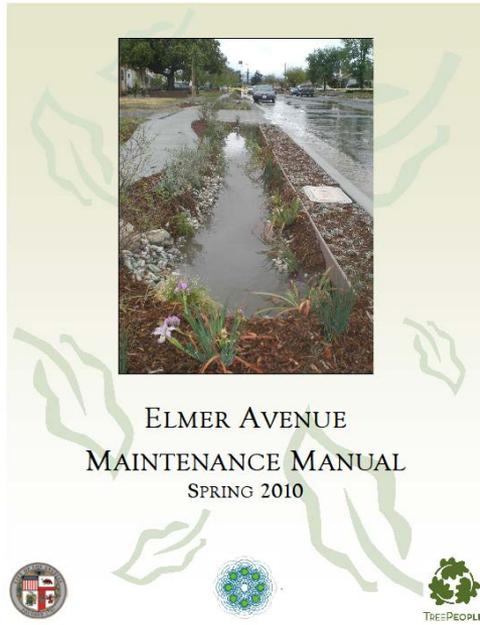


# Regional BMP, LID/Green Streets Costs

| BMP/LID Street Cost                              | Footprint (ft <sup>2</sup> ) | Tributary Acres | Depth (ft) | Volume (ft <sup>3</sup> ) | Cost Estimate        |
|--|------------------------------|-----------------|------------|---------------------------|----------------------|
| Randolph Street Greenway or cistern (R BMP #1)   | 104,000                      | 588             | 10         | 353,600                   | \$10,760,000         |
| Los Angeles DWP Transmission Lines (R BMP #2)    | 95,280                       | 475             | 10         | 656,003                   | \$19,510,000         |
| John Anson Ford Park (R BMP #3)                  | 544,707                      | 1,653           | 10         | 3,124,069                 | \$91,060,000         |
| Rosewood Park (R BMP #4)                         | 217,729                      | 506             | 10         | 1,249,628                 | \$36,770,000         |
| Lugo Park (R BMP #6)                             | 100,260                      | 356             | 10         | 574,829                   | \$17,170,000         |
| Salt Lake Park (R BMP #7)                        | 196,004                      | 476             | 10         | 1,124,665                 | \$33,110,000         |
| <b>Total Regional BMPs</b>                       |                              |                 |            |                           | <b>\$210,000,000</b> |
| <b>LID/Green Streets</b>                         | 400,000                      | 910             | variable   |                           | <b>\$90,000,000</b>  |
| <b>Total Regional BMPs and LID/Green Streets</b> |                              |                 |            |                           | <b>\$300,000,000</b> |



# Questions?



# Exemplar Regional BMP

