Upper Los Angeles River Watershed

- Alhambra
- Burbank
- Calabasas
- County of LA
- Flood Control District
- Glendale
- Hidden Hills
- Temple City
- La Canada Flintridge
- Los Angeles
- Montebello
- Monterey Park
- Pasadena
- Rosemead
- San Fernando
- San Gabriel
- San Marino
- South Pasadena
- South El Monte
Upper LA River Assessment Areas

- LA River mainstem
- Compton Creek
- Rio Hondo
- Arroyo Seco
- Verdugo Wash
- Burbank W. Ch.
- Tujunga Wash
- Bull Creek
- Aliso Wash
- Brown’s Canyon Wash
- Bell Creek
- McCoy-Dry Canyon
Early Action Project: Brandon and Green Street

SUBSURFACE INFILTRATION BASIN

STORMTANK MODULES

BASIN INSTALLATION
Early Action Project: Humboldt Greenway

Cost: $4.5 M
Completed: Jan. 22, 2014
• RAA is quantitative demonstration that projects will result in compliance

• Watershed Management Modeling System (WMMS) also supports control measure selection based on cost effectiveness

• Model approved by Regional Board and methods are consistent with RAA Guidelines
Governing Compliance Schedules

2012:
25% wet weather metals milestone

2017:
31% wet weather metals milestone

2024:
50% milestone for LA River metals

2028:
100% compliance with metals

2032:
100% compliance with toxics

2037:
100% compliance with bacteria
Scheduling for Compliance

**Structural BMP Capacity (acre-ft)**

- **2017**
  - Total Regional BMPs: 216
  - Green Streets: 124
  - Total LID BMPs: 36
- **2024**
  - Total Regional BMPs: 688
  - Green Streets: 399
  - Total LID BMPs: 174
- **2028**
  - Total Regional BMPs: 1225
  - Green Streets: 536
  - Total LID BMPs: 536
- **2032**
  - Total Regional BMPs: 2306
  - Green Streets: 536
  - Total LID BMPs: 536
- **2037**
  - Total Regional BMPs: 3446
  - Green Streets: 1225
  - Total LID BMPs: 536

**Milestone Year**

- **Total Regional BMPs**
- **Green Streets**
- **Total LID BMPs**

*Residual Toxics Source Control Measures*
Comply by Implementing Control Measures

- Four primary categories of control measures:

  1. Institutional BMPs
     e.g., Enhanced sweeping

  2. Green Streets

  3. Low Impact Development

  4. Regional BMPs
EMWP Compliance Strategy

Relative BMP Capacities
695 Regional Projects:
• 16 Very High
  • 8 Signature Projects
• 70 High
• 593 Medium

Detailed process that screened over 12,000 public parcels
Franklin D. Roosevelt Regional BMP Project

- Major Physical Benefits:
  - Improve water quality
  - Increase Local Water Supplies

- Priority:
  - Capture 85th Percentile 24-hour storm
  - Multi-use Benefits to the communities

- Current Status:
  - Seeking Grant Funding
  - 30% Design Plan
North Hollywood Park
Load Reduction Strategies (dry weather)

Segment B LAR: submit June 2015
Rio Hondo: submit March 2016
Arroyo Seco: submit March 2016
Segment E LAR: submit Sept. 2017
Compton Creek: submit March 2018
• Important to integrate EWMP with restoration and revitalization efforts

• **Example:** regional BMPs on private land are large component of EWMP
  - Land acquisition could provides multiple benefits including habitat restoration, increasing public access to River, floodplain buyback, etc.

• **Illustration:** Map to right highlights key LA River restoration areas with nearby subwatersheds where regional BMPs on private land are required by RAA.
Stakeholder Outreach

- Three Stakeholder meetings at the LA Zoo
  - April 2014
  - November 2014
  - March 2015

- Six Public Meetings for the Program Environmental Impact Report

- Websites
  - www.LACoH2Osheds.com
  - www.LAStormwater.com
Financial Strategy

- Water Bond
- Grants
- Loans
- Other Bonds
- Continue to outreach for public support of stormwater projects
- Coordinate with other regional projects
- Work with others on their planning efforts
- Seek public-private partnerships
- Work with Water agencies
- Evaluate the feasibility of Assessments or Stormwater fees
City Council Meetings
Upper Los Angeles River Watershed
Thank you
Extra Slides
EWMP Implementation Strategy (Bacteria, thru 2037)

EWMP Implementation Strategy for Final Compliance by 2037

Structural BMP Capacity (acre-ft)

Ah ahbra 133
Burbank 276
Calabasas 61
Glendale 244
Hidden Hills 5
La Canada Flintridge 150
Montebello 123
Monterey Park 303
Pasadena 94
Rosemead 6
San 0
San Gabriel 30
San Marino 48
South Pasadena 35
Temple City 35
Uninc. LA County 56
Los Angeles 3040

Regional BMPs (private)
Regional BMPs (Medium)
Regional BMPs (High)
Regional BMPs (Very High)
Green Streets
LID (residential)
LID (public)
LID (existing/planned)
LID (ordinance)
Implementation Cost

Contributing EWMP Jurisdictions

Structural BMP Capacity (acre-ft)
## Compliance Cost

<table>
<thead>
<tr>
<th>City</th>
<th>Final Bacteria TMDL Compliance (2037)</th>
<th>Final Metals TMDL Compliance (2028)</th>
<th>31% Metals TMDL Milestone (2017)</th>
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## Recipe for Compliance

**EWMP IMPLEMENTATION STRATEGY:**

**APPROACH TO ACHIEVE COMPLIANCE TARGETS,**

**SUBJECT TO ADAPTIVE MANAGEMENT**

(BMP capacity expressed in units of acre-feet)

<table>
<thead>
<tr>
<th>Subwatershed ID</th>
<th>For Metalls Managed (acre-ft)</th>
<th>For Bacteria Managed (acre-ft)</th>
<th>% Load Reduction Critical Condition</th>
<th>Low-Impact Development</th>
<th>Streets</th>
<th>Regional BMPs</th>
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<tbody>
<tr>
<td></td>
<td>For Metals by 2028</td>
<td>For Bacteria by 2037</td>
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<tr>
<td>616102</td>
<td>11.80</td>
<td>0.00</td>
<td>90%</td>
<td>0.15</td>
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**For Metals Attainment by 2028**

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<th>Low-Impact Development</th>
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<th>Regional BMPs</th>
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<td>Planned LID</td>
<td>Public LID</td>
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**For Bacteria Attainment by 2037**