

UPDATE ON TOTAL MAXIMUM DAILY LOADS AND STORMWATER QUALITY ISSUES IN THE CITY OF RIVERSIDE

Public Works Department

Utility Services/Land Use/Energy Development Committee December 10, 2018

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BACKGROUND

At the September 10, 2018 meeting of the Utility Services/Land Use/Energy Development Committee, Chair MacArthur requested an update on water issues in runoff to the Santa Ana River and Greenbelt.



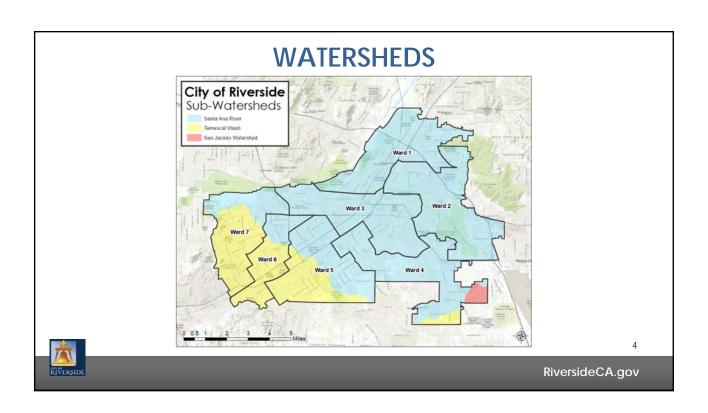
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TOTAL MAXIMUM DAILY LOAD

- A Total Maximum Daily Load (TMDL) establishes the maximum amount of a pollutant that a waterbody can receive and still meet water quality objectives;
- 2. TMDLs have been established for:
 - a. Middle Santa Ana River Bacterial Indicators
 - b. Lake Elsinore/Canyon Lake Nutrients



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LAKE ELSINORE/CANYON LAKE NUTRIENT TMDL

- 1. Approved by the EPA in 2005;
- 2. LE/CL TMDL Task
 Force created in 2005
 to coordinate and
 share costs among all
 stakeholders.





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LE/CL TMDL REVISION

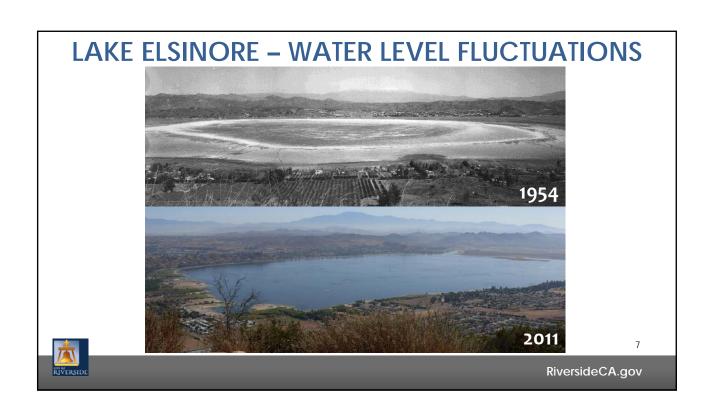
- 1. Current TMDL established unachievable objectives;
- 2. 2016 TDML revision commenced; and
- 3. New draft TMDL takes into account drought conditions and history of low water levels.





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LE/CL - POTENTIAL FUTURE ACTIONS

- 1. Continue participation in the LE-CL TMDL Task Force and pay our share for monitoring and compliance actions; or
- 2. Monitor City outfalls that eventually drain to Canyon Lake and demonstrate that their nutrient loads are within limits. If not, the City may implement Best Management Practices to reduce nutrient concentrations.



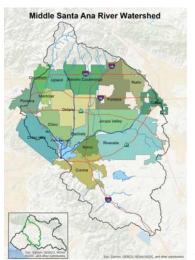
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MIDDLE SANTA ANA RIVER BACTERIA TMDL

- 1. Approved by the EPA in 2007.
- 2. MSAR TMDL Task Force created in 2006 to coordinate and share costs among all stakeholders.





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MONITORING

- 1. 2011 Tier 1 Monitoring 34 locations, 8 in Riverside:
 - a. 4 sites No Flow
 - b. 3 sites Low Priority
 - a. Phoenix
 - b. Magnolia Center
 - c. Tequesquite Channel
 - c. 1 site High Priority
 - a. Hole Lake



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MONITORING (CONT.)

- 2. Additional monitoring upstream of Tier 1 sites:
 - a. Investigations on controllable (human origin) vs uncontrollable (native animals) sources;
 - b. DNA analysis;
 - c. Questions about impact of homeless encampments; and
 - d. Moderate Successes:
 - a. Small sources found and eliminated; and
 - b. Water conservation efforts.



MSAR BACTERIA TMDL - ARLINGTON GREENBELT

- Significant runoff from agricultural activities;
- 2. Much of the area drains to Hole Lake (High Priority);
- 3. City and Task Force have been proactive in trying to find sources of bacterial indicators; and
- 4. City lacks jurisdiction to regulate agricultural discharges.





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MSAR BACTERIA TMDL - AUDIT

- 1. January May 2018;
- 2. No Violations;
- 3. Focus on homeless encampments;
- 4. Suggested:
 - a. Better internal communication; and
 - b. Document policies and procedures



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MSAR - POTENTIAL FUTURE ACTIONS

- Increased monitoring and source elimination;
- 2. Dry weather runoff diversion to the sanitary sewer; and
- 3. Capture of dry weather flows.



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RECOMMENDATIONS

That the Utility Services/Land Use/Energy Development Committee:

- 1. Receive an update on total maximum daily loads and stormwater quality issues; and
- 2. Provide direction/input on potential future actions.

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