

City of Los Angeles' Local Water Supplies and the LA River

One Water LA

November 8, 2017 State Water Resources Control Board Los Angeles, CA

Putting Customers First ()

Water Sources and Reliability Challenges



One Water L

Water Supply Planning Efforts



Sustainable City pLAn & 2015 UWMP Goals





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Centralized vs. Distributed Capture



Centralized







Distributed







Water Recycling in Upper Los Angeles River Watershed

- Donald C. Tillman Water Reclamation Plant
 - Sepulveda Basin Sports Complex Water Recycling Project
 - Groundwater Replenishment Project
- Los Angeles / Glendale Reclamation Plant
 - Downtown Water Recycling Project
 - Eastside Water Recycling Project
- Burbank Water Reclamation Plant
 - North Hollywood Water Recycling Project









Current and Planned City of LA Projects that May Affect LA River Flows

No.	Projects	Estimated River Flow Impact (AFY)
1	US Army Corps of Engineers ARBOR Project	3,000 to 6,500
2	Sepulveda Sports Complex Water Recycling Project	56
3	Eastside Water Recycling Project	465
4	Increase number of LADWP recycled water customers	398
5	Expanded recycled water use through recirculation of Sepulveda Basin flow through lakes	up to 25,000 (22 MGD)
6	LAR Dry-Weather Bacteria Compliance Approach for Segment B	Will reduce dry weather flows to LAR to zero
7	Enhanced Watershed Management Plan for Upper LAR	
8	Projects to enhance recharge capacity in the San Fernando Groundwater Basin (SFB)	



City of LA Project *Concepts* that May Affect LA River Flows

No.	Projects	Estimated River Flow Impact (AFY)
9	LAR Recharge into LA Forebay Concept	up to 25,000 (22 MGD)
10	LA/Glendale Water Reclamation Plant to Headworks Reservoir Concept	up to 6,000
11	Upper LAR to DCTWRP	4,500 to 5,600
12	DCTWRP to SFB Injection Wells	up to 15,000
13	DCTWRP to Los Angeles Aqueduct Filtration Plant	up to 15,000
14	DCTWRP to LADWP Distribution System	up to 15,000
15	Increase recycled water demand beyond 2015 UWMP	16,400 to 45,400



Los Angeles River Low Flow Study



Purpose

To identify considerations, assumptions, and areas of future study necessary to determine optimal flow conditions in the LA River.



These conditions would balance the City's <u>water supply needs</u> with the River's <u>water-dependent uses and</u> <u>regulatory requirements</u>.



Process For LA River Low Flow Study





Los Angeles River

- 51 miles Headwaters to the Ocean
- Hydrologic mile-by-mile modeling
- Three sites modeled in more detail
 - Los Feliz
 - Taylor Yard
 - Willow Street







■ Total Flow ■ Losses to ET ■ WRPs ■ Incidental Urban Runoff ■ Upwelling



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Total Flow ■ Losses to ET ■ WRPs ■ Incidental Urban Runoff ■ Upwelling





Total Flow Losses to ET **WRPs** Incidental Urban Runoff **Upwelling**





Total Flow Losses to ET WRPs Incidental Urban Runoff Upwelling





Total Flow Losses to ET WRPs Incidental Urban Runoff Upwelling



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Next Steps

- Collaborative cumulative environmental impact analysis
- Planned and/or potential projects
- Participate in development of LA County's LA **River Master Plan Update**
- Future City of Los Angeles 1211 Petition



Thank You

Questions?

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