

San Gabriel River Watershed Project to Reduce River Discharge in Support of Increased Recycled Water Reuse



October 2018



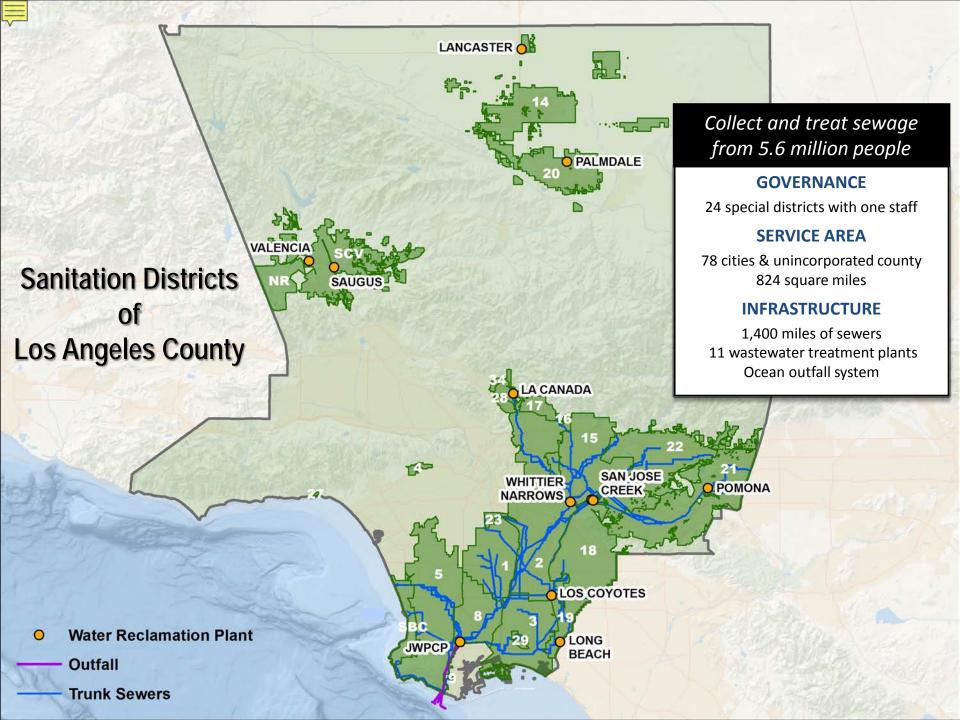


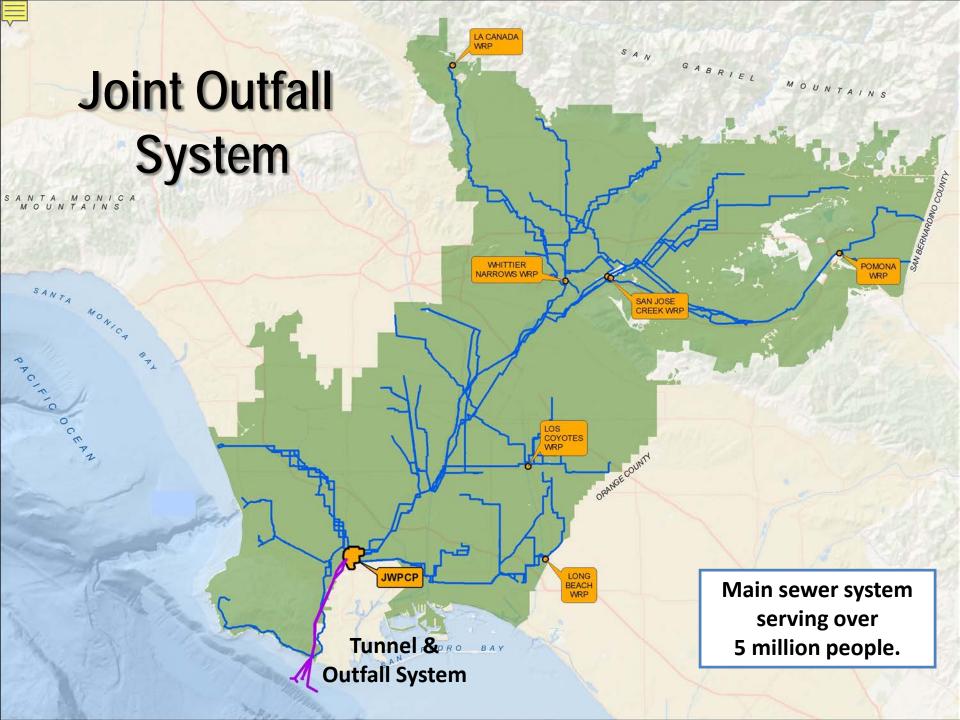
San Gabriel River Watershed Project to Reduce Discharge in Support of Increased Recycled Water Reuse

- Presentation Objective:
 - Overview of the Sanitation Districts
 - Overview of Existing Operations
 - Overview of the Proposed Reuse Project
 - Overview of San Gabriel River 1211 Efforts

Overview of the Sanitation Districts of Los Angeles County

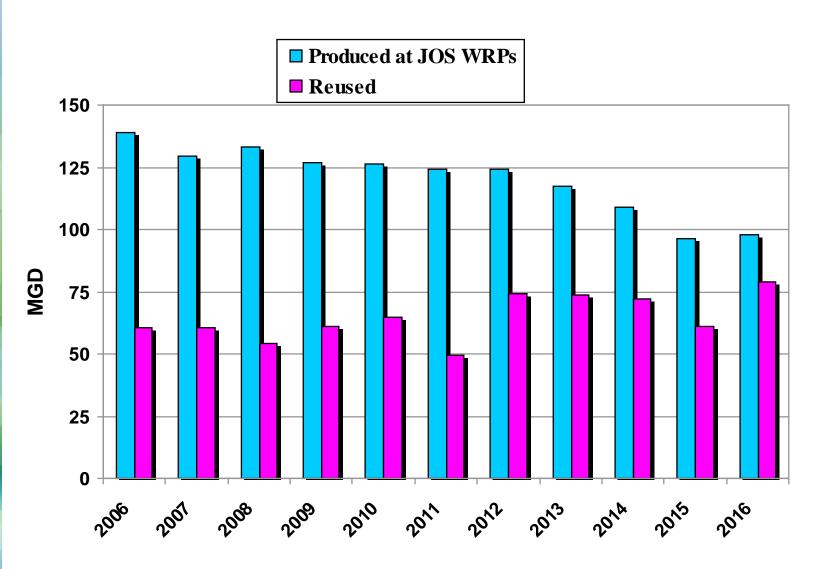








Production/Reuse





Nation's Leader in Water Recycling

Largest supplier of recycled water over the last 50 years



Overview of Existing Operations







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Water Reclamation Plant	Existing Annual Daily Average Discharge* (mgd)	Proposed Annual Daily Average Discharge* (mgd)	
San Jose Creek WRP			
SJC001	19	19	
SJC001A	5	5	
SJC001B	8	8	
SJC002	16	5	
SJC003	0	0	
Pomona WRP	_		
POM001	4	0	
Whittier Narrows WRP WN001	1	1	
Los Coyotes WRP LC001	18	2	
Long Beach WRP LB001	11	0	
TOTAL	82	40	



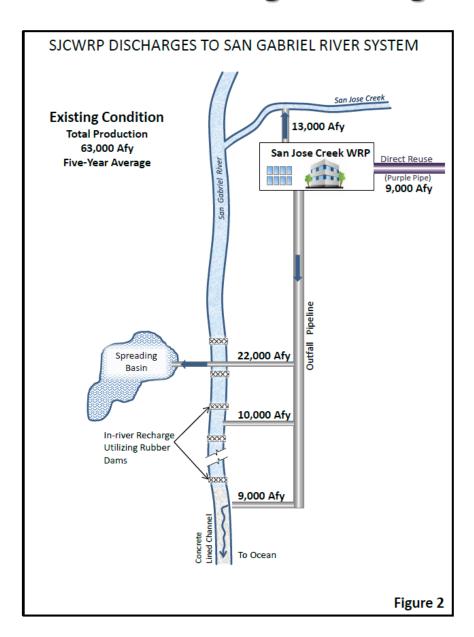


Groundwater Recharge Operations



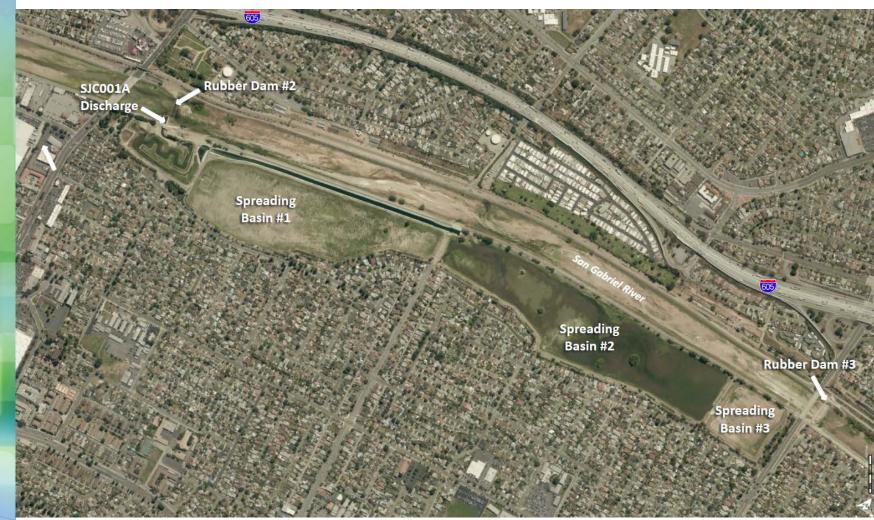


SJCWRP Existing Discharges





San Gabriel River Coastal Spreading Grounds







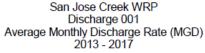
San Gabriel River Lined Channel

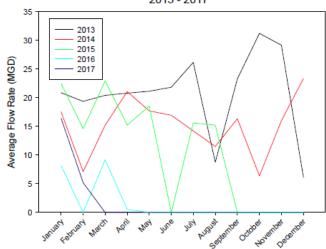




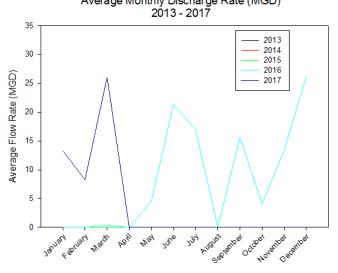


WRP Average Monthly Discharge Charts

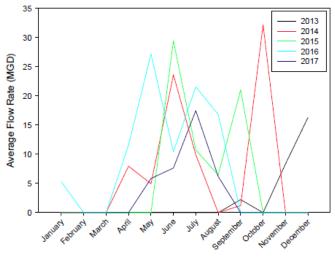




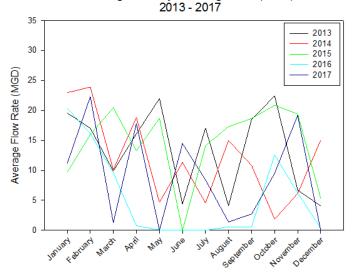
San Jose Creek WRP
Discharge 001B
Average Monthly Discharge Rate (MGD)
2013 - 2017



San Jose Creek WRP Discharge 001A Average Monthly Discharge Rate (MGD) 2013 - 2017



San Jose Creek WRP Discharge 002 Average Monthly Discharge Rate (MGD) 2013 - 2017



Overview of the Proposed Reuse Project





Currently Known Recycled Water Requests

WRP Supplying Recycled Water	User	Quantity	
San Jose Creek WRP	WRD - ARC	22,000 AFY	
	Upper San Gabriel Valley MWD	72 AFY	
	La Puente Valley MWD	56 AFY	
	Rose Hills Memorial Park	50 AFY	
San Jose Creek and Los Coyotes WRPs	Central Basin Municipal Water District	2,000 AFY	
Pomona WRP	City of Pomona	3,360 AFY	
Long Beach WRP	WRD - Leo Vander Lans Facility	Maximize recycled water use	
	City of Long Beach		





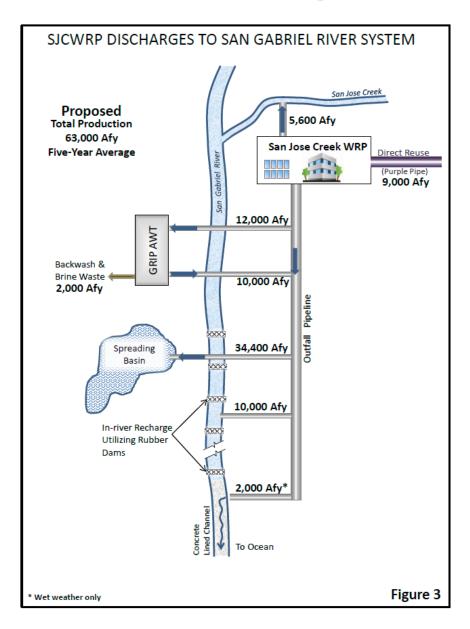
Water Replenishment District's Albert Robles Center for Water Recycling & Environmental Learning (ARC)





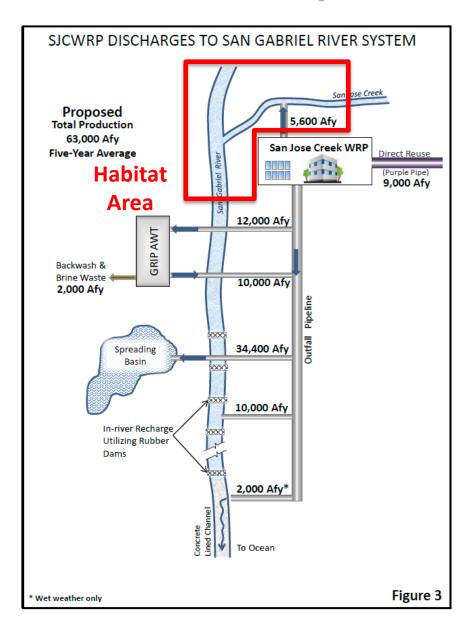


San Jose Creek WRP Proposed Discharges





San Jose Creek WRP Proposed Discharges





Species of Concern – least Bell's Vireo

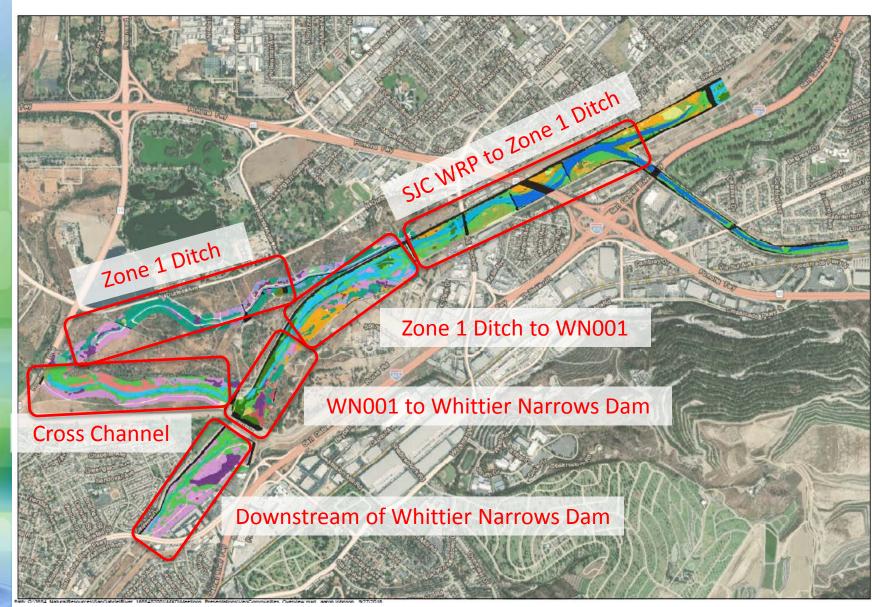








Habitat Areas





Water Demand per Month

	ET (in)	%	gal/mo ET	gpd ET	mgd ET	AF/d ET
Jan	1.75	4%	16,512,944	532,676	0.533	1.635
Feb	1.76	4%	16,607,304	535,719	0.536	1.645
Mar	4.28	9%	40,385,943	1,302,772	1.303	4.000
Apr	5.55	12%	52,369,622	1,689,343	1.689	5.186
May	5.31	11%	50,104,990	1,616,290	1.616	4.962
Jun	5.22	11%	49,255,753	1,588,895	1.589	4.878
Jul	6.4	13%	60,390,195	1,948,071	1.948	5.981
Aug	5.98	12%	56,427,089	1,820,229	1.820	5.588
Sept	4.63	10%	43,688,532	1,409,307	1.409	4.327
Oct	3.26	7%	30,761,256	992,299	0.992	3.046
Nov	2.34	5%	22,080,165	712,263	0.712	2.187
Dec	1.48	3%	13,965,232	450,491	0.450	1.383
Total	47.96	100%	452,549,025	1,216,530	1.217	3.735





Adaptive Management Monitoring Strategies

- Stem Water Potential (SWP) to directly assess water availability to individual plants
- Canopy Volume (CV) to measure plant response to stress
- Soil moisture monitoring
- Vegetation Mapping to compare total areas annually
- Recruitment analysis



California Water Code Section 1211





California Water Code

Section 1211

(a) Prior to making any change in the point of discharge, place of use, or purpose of use of treated wastewater, the owner of any wastewater treatment plant shall obtain approval of the board for that change. The board shall review the changes pursuant to the provisions of Chapter 10 (commencing with <u>Section 1700</u>) of Part 2 of Division 2.





1211 Components

Water Rights



Habitat Impacts









Water Rights

Water rights not expected to be an issue for the San Gabriel River watershed because:

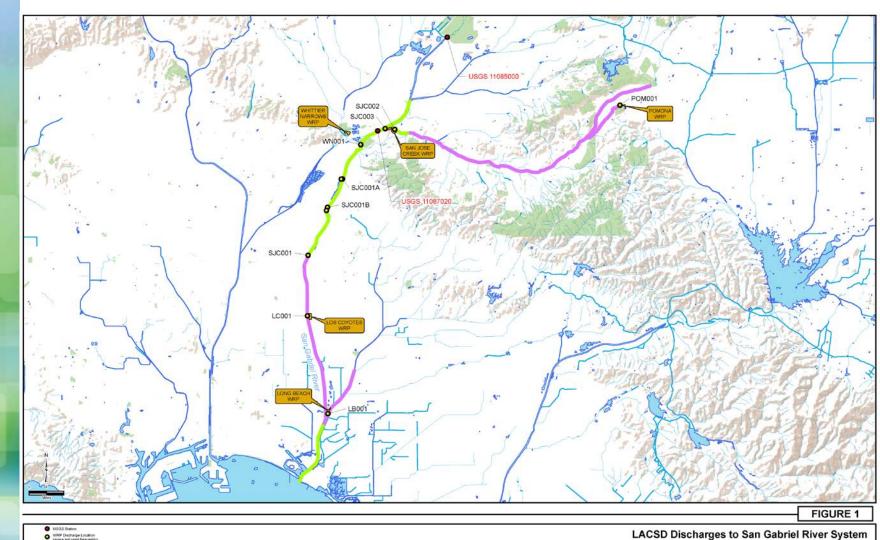
- San Gabriel River is fully appropriated.







Habitat Impacts







CEQA - IS/MND

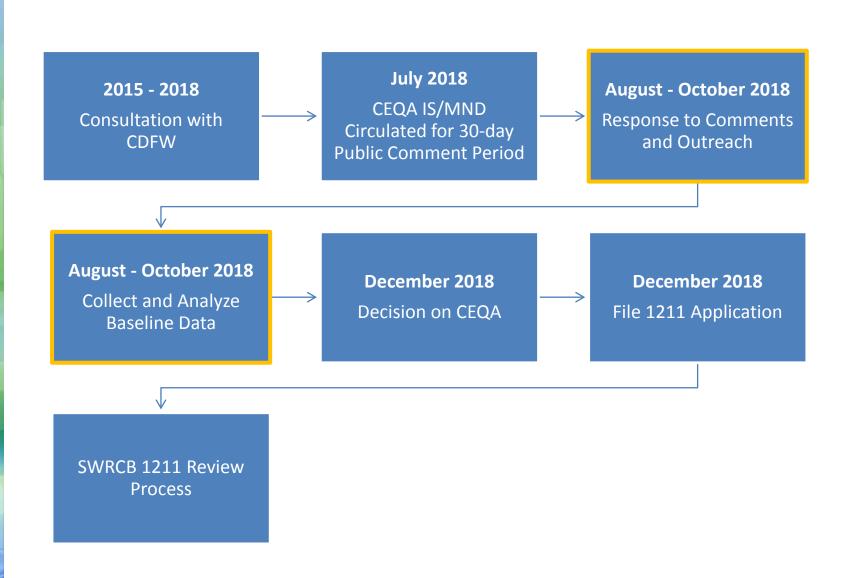
- With AMP there will be no loss of LBV habitat
- The Project will have Less Than Significant Impact with Mitigation
 - Hydrological Resources
 - Groundwater is not affected
 - Users of the recycled water manage the groundwater
 - Biological Resources
 - least Bell's Vireo
 - Adaptive Management Plan







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Thank You!

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