



## "One Water – One Riverside" Integrated Water Planning

Public Utilities and  
Public Works Departments

City Council  
April 17, 2018

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## "One Water – One Riverside"



### Video Introduction

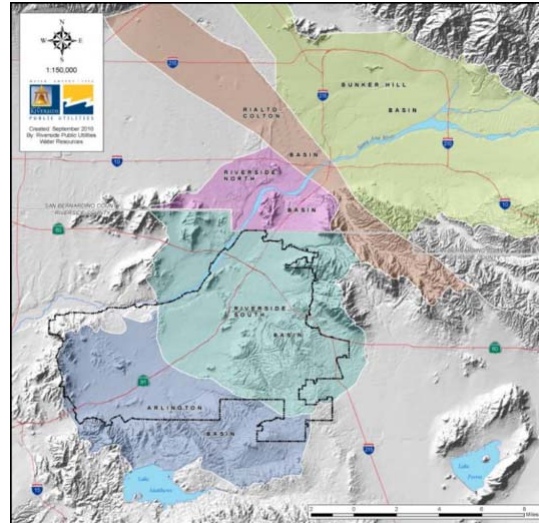
Riverside Public Utilities and Public Works are working as ONE to add value to our community by maintaining a reliable water supply, advancing our economy and keeping waterways healthy.



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## WATER SUPPLY

1. Groundwater: 86,000 AFY supply
  - a) Seven Oaks Dam Recharge
  - b) Six Water Treatment Plants
2. Water Supply Projects
  - a) Storm Water Capture
  - b) Recycled Water Projects

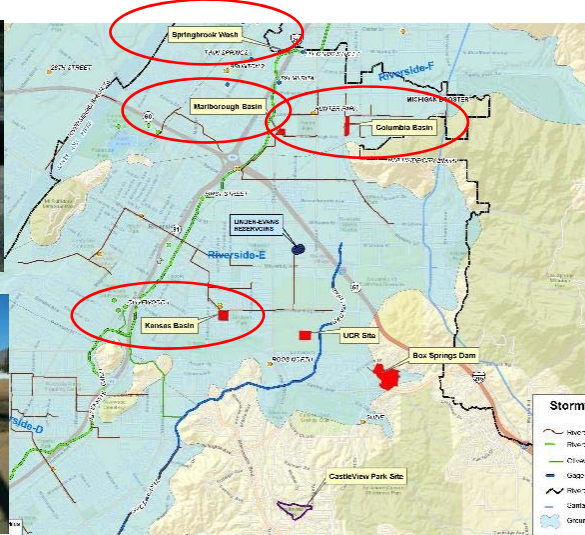


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## STORM WATER CAPTURE



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## STORM WATER CAPTURE

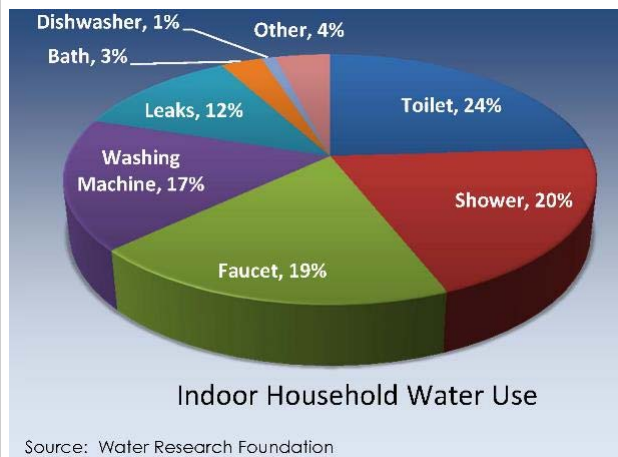
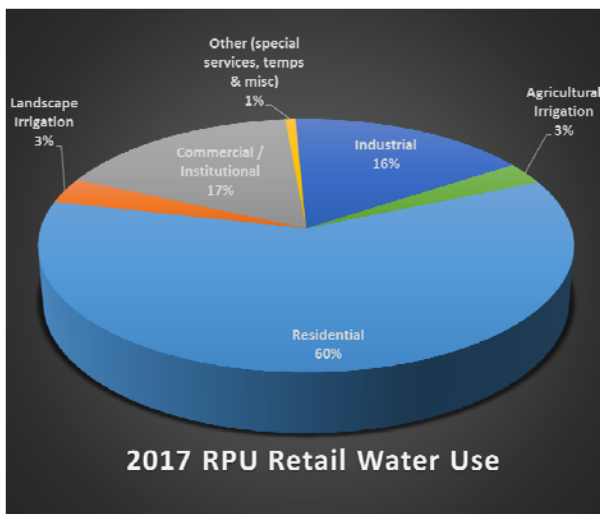
1. Multi-Agency Benefits:
  - a) RCFC&WCD and Public Works Reduction of TMDLs
  - b) City of Riverside PW – NPDES Discharge requirements
  - c) RPU – Groundwater Recharge credits
2. Kansas Basin percolation testing (April 2017)



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## PUBLIC USE



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## WASTEWATER TREATMENT



### Bio-Methane Production

1. Organics Receiving station
2. Food slurry, FOG and food processing
3. Increased Bio-methane for energy production and Renewable Natural Gas

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## WASTEWATER TREATMENT



### Energy Generation

1. Fuel Cell – produces  $\frac{1}{4}$  of power needs
2. Uses bio-methane
3. 3MW demand at plant
4. 100% energy independence in 5 years

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## WASTEWATER TREATMENT



### Recycled Water Production

1. High quality Membrane Bioreactor water
2. Recycle increasing along with regional water management
3. Potable reuse and Santa Ana River habitat enhancement



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## WASTEWATER TREATMENT



### Biosolids Beneficial Reuse

1. Now land applied non-food crops
2. UCR research partnership
3. Synthetic fuels or Class A (pellets or fertilizer)



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## RECYCLED WATER

Jackson Street RW Pipeline,  
Phase I:

1. Under Construction,  
anticipated completion  
August 2018
2. 18,700 LF of new RW  
pipeline
3. 14 Recycled Water Services
4. Est. 589 AF of RW Usage
5. Project Cost: \$9,039,000



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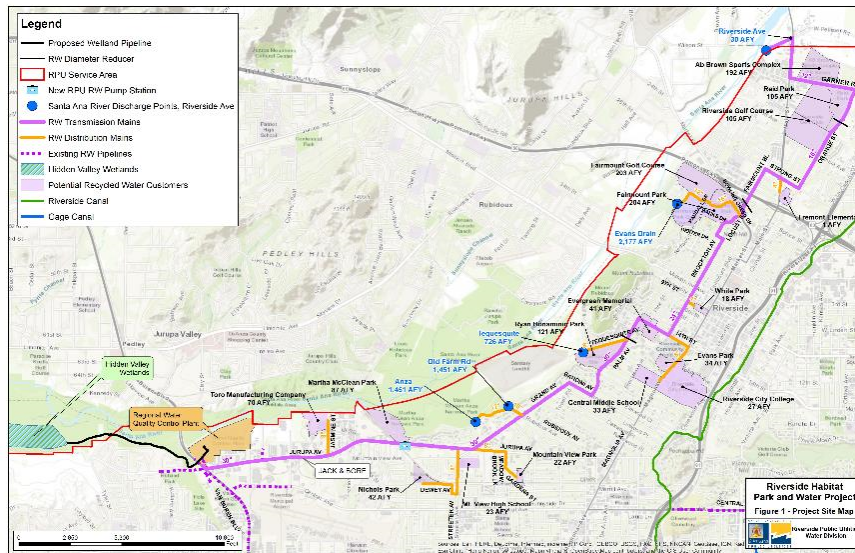
## RECYCLED WATER PROJECTS



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# RIVERSIDE HABITAT, PARKS AND WATER PROJECT



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## HABITAT CONSERVATION PLAN

1. 13 Agencies working to mitigate endangered Santa Ana Sucker and twelve other covered species to construct water supply projects on a regional scale
2. Pre-mitigating and creating bank

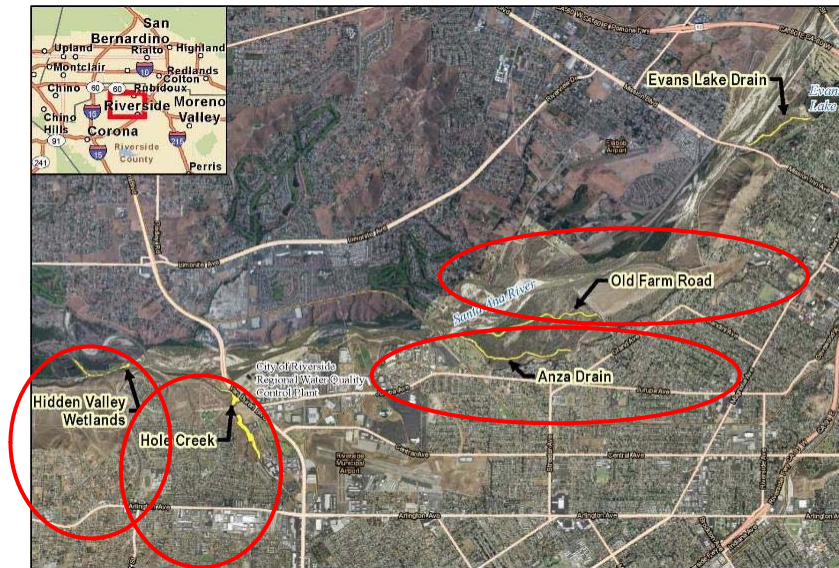


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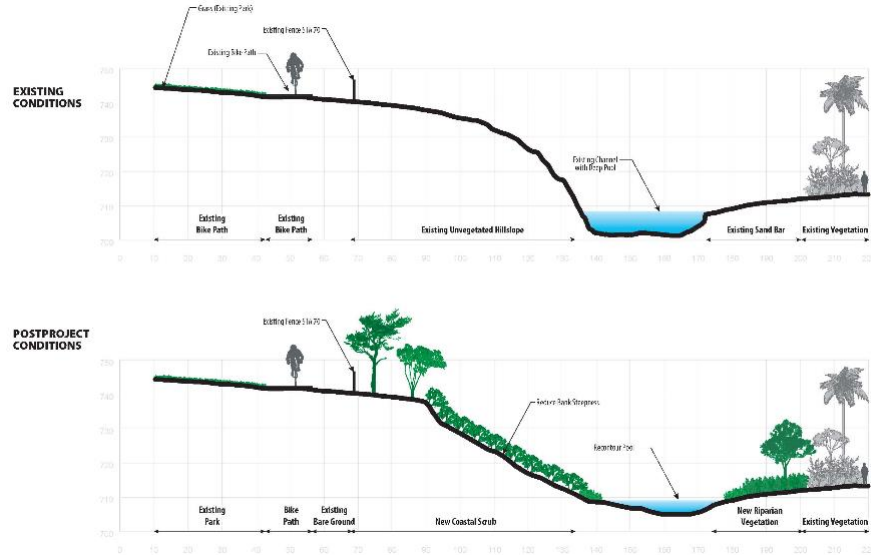
# HABITAT CONSERVATION PLAN



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# HABITAT CONSERVATION PLAN



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## RECOMMENDATION

That the City Council receive a report on “One Water – One Riverside”.



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