

WATER RESOURCES FACT SHEET

Water Resources

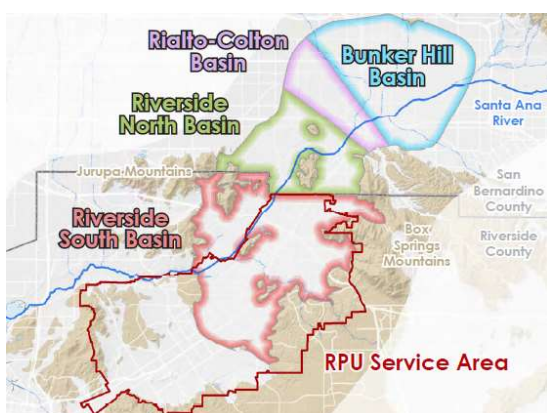
Water Committee
January 12, 2021

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1

WATER SUPPLY FACT SHEET



Riverside Public Utilities is prepared to meet the City's current water supply needs. However, proactively **Investing In Our Future** is key to ensure adequate and sustainable water supply is available for the City's growth and future generations.

Riverside's Groundwater Resources & Supply

100% of the City's potable (drinking) water has been supplied from local groundwater sources since 2009

Serves Population of
306,140

69K
Service Connections

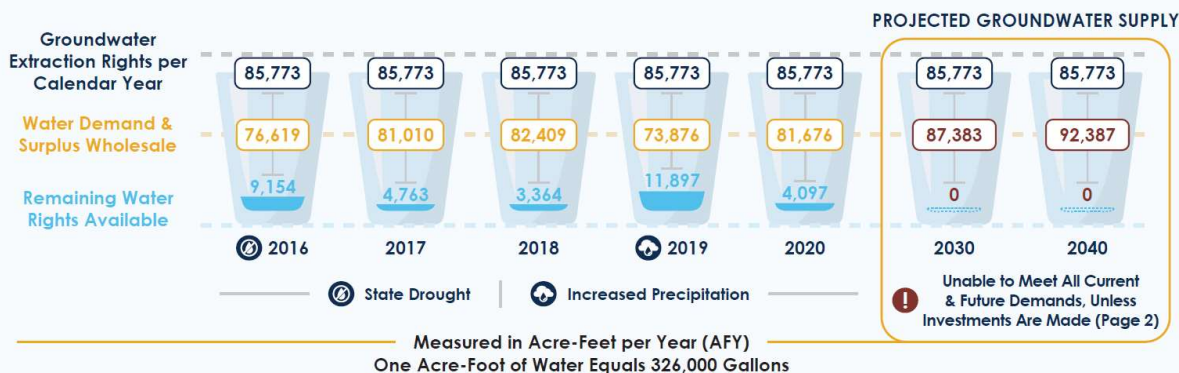
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2

WATER SUPPLY FACT SHEET

A 1969 Legal Judgment sets surface water and groundwater rights for the region, including the City of Riverside's annual "use it or lose it" groundwater extraction rights.



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3

SUSTAINABILITY CHALLENGES TO RIVERSIDE REQUIRING VITAL SOLUTIONS

Water Rights
1969 Legal Judgment is **vulnerable to future modification(s)**, dependent on drought conditions and water levels, that could pose a risk to extraction rights.

Climate Change
Shorter snowpack winters and longer drier summers.

2045 Potable & Recycled Water Demand
Projected to be **26% higher** than current water rights.

Groundwater Conditions
Natural basin recharge from rainfall is **22% below** historical annual average resulting in historical lows of water levels.

City of Riverside Growth
Increase in **population** and associated water needs is **projected to be greater** than Riverside's available water supply sources **within 10 years**.

Water Quality Regulation Challenges
Constantly changing regulations and emerging unregulated chemicals require the **need for water supply** redundancy and the likelihood of **additional treatment facilities**.

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4

SOLUTIONS FOR RIVERSIDE'S SUSTAINABLE WATER FUTURE

Riverside must invest locally in basin management and water supply projects in order to:



Protect Existing **Water Rights** & Expand **Water Resources**



Maximize **Recycled Water Use**



Maximize **Regional Storm Water Recharge**



Maximize **Local Storm Water Recharge**



Meet **City's Strategic Priorities**



Develop **Strategies for Groundwater Banking**



Conserve, **protect** and **restore** habitats.

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5

SOLUTIONS FOR RIVERSIDE'S SUSTAINABLE WATER FUTURE

The City of Riverside is committed to investing rate payer & other dollars to **provide reliable** services to customers for generations to come with the ability to meet and supply the water demand under perpetual water rights.



Water Security Investments

- A** Parks and Tributaries Water Reuse
- B** Enhanced Recharge Projects, Phases 1B and 1C
- C** Active Recharge Projects Phase I
- D** Water Loss Reduction Program
- E** Regional Advanced Treatment Facility

	Estimated Costs	Estimated Additional City Water Rights
A	\$55M	11,000 AFY
B	\$15.2M*	1,000 AFY
C	\$16.1M	1,500 AFY
D	\$2.65M	–
E	\$25M	–
Active Recharge Projects Phase II		
	\$18M	1,500 AFY
Riverside North ASR		
	\$18M	2,000 AFY

*\$9M included in FY 21/22 Budget
Measured in Acre-Feet per Year (AFY)



How Projects Will Be Funded

- **Combination of funding sources:**
 1. Grants / Low Interest Loans
 2. Bonds
 3. Rates
 4. Revenue from land sales or long-term lease(s)





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6

BENEFITS & NEXT STEPS

Benefits

-  • Diversifies **Riverside's water supply portfolio** options while securing additional perpetual water rights.
-  • Ensures **water supply reliability** for current and future demand.
-  • **Cost effective** and **environmentally friendly** compared to importing water.
-  • Creates **partnerships with neighboring agencies** and increases wholesale opportunities to the region.

Next Steps

-  **Planning & design** phases
-  RPU Board & City Council **concurrence process**
-  Construction of Riverside's **sustainable water future**
-  Riverside's additional water supply resources **operational**

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7

STRATEGIC PLAN ALIGNMENT

Strategic Priority No. 5 High Performing Government

Goal 5.5 – Foster a culture of safety, well-being, resilience and sustainability across the City Organization

Cross-Cutting Threads



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8

RECOMMENDATIONS

That the Board of Public Utilities Water Committee receive the overview of the Water Resources Fact Sheet.