



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: MAY 9, 2022

SUBJECT: ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT

ISSUES:

Consider approving the Riverside Annual Water Supply and Demand Assessment; and recommend that the City Council adopt the Riverside Annual Water Supply and Demand Assessment.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Approve the Riverside Annual Water Supply and Demand Assessment; and
2. Recommend that the City Council adopt the Riverside Annual Water Supply and Demand Assessment.

BACKGROUND:

The California Water Code Section 10632.1 requires that urban water suppliers prepare an Annual Water Supply and Demand Assessment (AWSDA) and submit an Annual Shortage Report to the California Department of Water Resources (DWR) by July 1 of every year starting in 2022 and every year thereafter.

The purpose of the Annual Assessment is to:

1. Evaluate water supply reliability for the current year and one dry year; and
2. Generate and submit an AWSDA and results regarding their anticipated shortages to DWR annually by July 1, starting on July 1, 2022.

The AWSDA and associated Annual Shortage Report are to be conducted by water agencies based on the procedures detailed in their adopted Water Shortage Contingency Plan (WSCP) and the recommendations provided by the DWR AWSDA Guidance document.

The AWSDA draft Guidance document was published in March 2022, but the final Guidance has not been released by DWR as of mid-April.

DISCUSSION:

The following table (Table 1) summarizes the topics that DWR requires as part of the AWSDA.

Table 1. Elements of the AWSDA Required Submittal

	Report Topic
Table 1	Annual Assessment Information
Table 2	Key Data - Demands, containing estimated unconstrained demand from July – June of next year
Table 3	Key Data - Supplies, containing estimated available supplies from July – June of next year
Table 4	Annual Water Shortage Assessment, showing a summary of monthly supply/demand balances and shortages and results of planned actions.
Table 5	Planned Water Shortage Response Actions, containing information on planned water shortage response actions (if any)
RPU Methodology	Optional attachments to include details on implementing the procedures that took place this year. Information may consist of descriptions of the steps followed, data sources considered, methodologies used, and the decision-making process

Riverside's Available Water Supply Projection for 2022-2023

Riverside Public Utilities' (RPU) AWSDA reflects the available water supply from groundwater extraction rights in the San Bernardino Basin Area (SBBA), Riverside Basins, and the Rialto-Colton Basin, as shown in Table 2 below.

Table 2. Riverside's Annual Extraction Rights (in acre-feet)

Groundwater Basin	RPU Annual Extraction (AF)
SBBA	55,263
Rialto-Colton	2,728
Riverside North	10,902
Riverside South	16,880
Total	85,773

In addition to the extraction rights shown above, RPU also has an agreement with Western Municipal Water District (WMWD) to access up to 21,700 Acre Feet per Year (AFY) of imported water and recycled water for non-potable uses, which is supplied from the City of Riverside Regional Water Quality Control Plant that satisfies the need of up to 800 AFY.

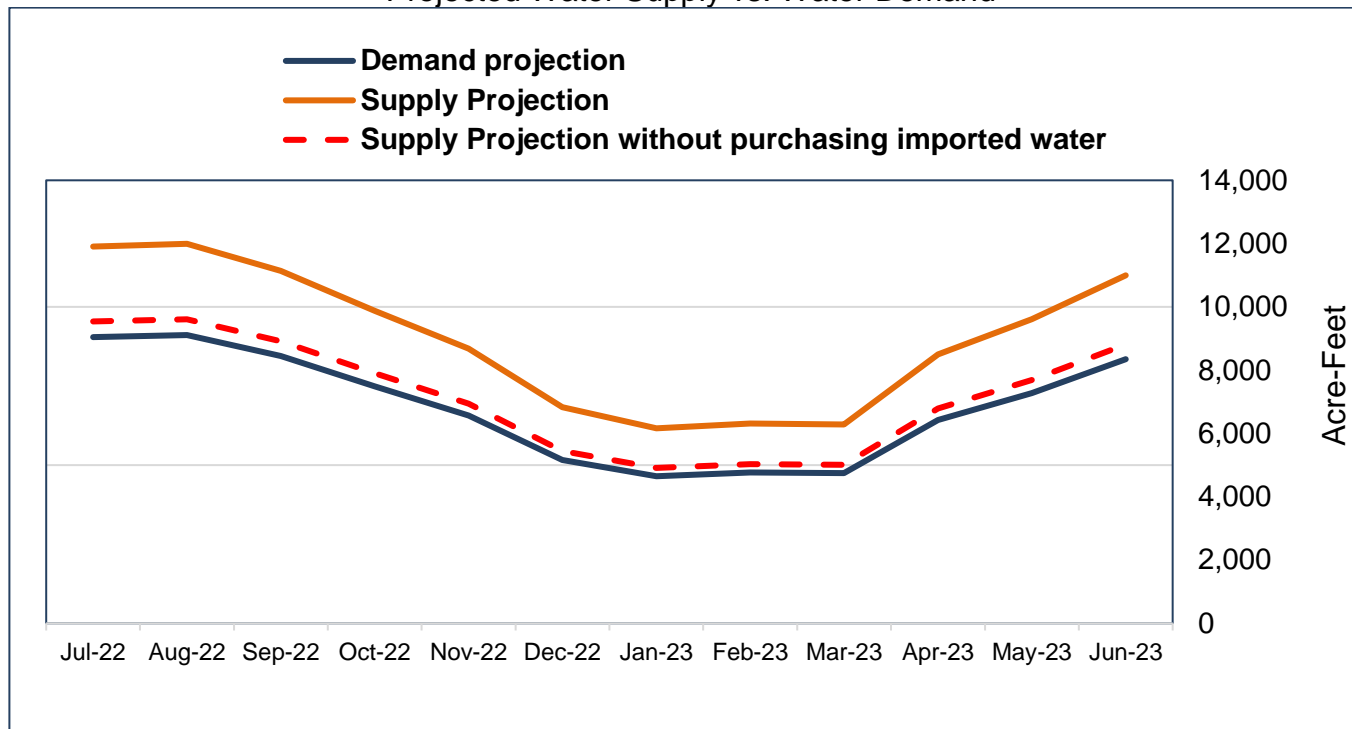
RPU generally produces below its fixed extraction rights. Should a drought increase local water demand, RPU has the capacity and rights to increase pumping to maximize its fixed extraction

rights in that drought year. As of 2022, RPU is able to meet all current demands with local groundwater supplies. In the past decade, RPU has not produced water on annual basis in excess of its groundwater rights.

Riverside's Water Demand for 2022-2023

The total potable and non-potable monthly water demand projections for RPU from July 2022 to June 2023 are estimated by adding next year's projection water needs for all demand categories. The estimated demands are based on the last five years' monthly average gallon per capita per day (GPCD) and the projected population changes, weather, and growth.

Projected Water Supply vs. Water Demand



Based on the calculation method provided in the DWR AWSDA draft Guidance, RPU's demand for next year is met and the available supply will cover that demand, as shown in the graph above. Therefore, RPU is not anticipating implementing a shortage response action due to limited water supplies. However, RPU is aware that the projected conditions can change and will continue monitoring for these changes or any State requirement that could mandate implementation of the Water Supply Shortage Contingency Plan stages.

STRATEGIC PLAN ALIGNMENT:

The AWSDA supports the City of Riverside's Envision Riverside 2025 Strategic Plan, which contributes to **Strategic Priority No. 4 - Environmental Stewardship** and **Goal 4.2** – Sustainably manage local water resources to maximize reliability and advance water reuse to ensure safe, reliable, and affordable water to our community.

This item aligns with each of the five Cross-Cutting Threads as follows:

1. **Community Trust** – The AWSD assessment identifies the next year's supply and demand

for RPU customers to ensure their water needs are met, thereby enhancing community trust.

2. **Equity** – All residents within RPU's service area will benefit from the assessment of having reliable drinking water sources to meet all of the demand categories.
3. **Fiscal Responsibility** – The AWSD Assessment will help keep the cost of water affordable by ensuring RPU's anticipated supplies will meet demand in the near-term without purchasing imported water.
4. **Innovation** – Riverside is proactively preparing the AWSD Assessment to evaluate water system reliability for the coming year and determining if any water shortage response actions are currently needed.
5. **Sustainability & Resiliency** – Riverside is committed to meeting the needs of the present without compromising the needs of the future and ensuring the City's capacity to persevere, adapt and grow during good and difficult times alike.

FISCAL IMPACT:

There is no fiscal impact associated with this informational report.

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Approved by:	Kris Martinez, Assistant City Manager
Approved as to form:	Phaedra A. Norton, City Attorney

Certifies availability of funds:	Edward Enriquez, Chief Financial Officer/City Treasurer
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Attachments:

1. RPU Annual Water Supply and Demand Assessment (Methodology)
2. RPU Annual Water Supply and Demand Assessment (Tables)
3. Presentation