

Annual Summary Report on Public Water Quality Benefits for Calendar Year 2024

TO: James Nachbaur, State Water Resources Control Board
CC: Amy Young, Water Storage Investment Program Manager – California Water Commission
SUBMITTED BY: Jofil Borja, Harvest Water A-PMO Manager – SacSewer
DATE: April 30, 2025
RE: 2024 Annual Summary Report for WSIP Contract for Administration of Public Water Quality Benefits (CAPB)

1. BACKGROUND AND PURPOSE

The Sacramento Area Sewer District (SacSewer), is developing the Harvest Water Program in southern Sacramento County. Harvest Water is one of the projects within the California Water Commission's (Commission) Water Storage Investment Program (WSIP). Harvest Water is a conjunctive use program that will use recycled water deliveries for irrigation to enhance groundwater levels, ecosystem function, and agricultural sustainability in the southern Sacramento County area. Harvest Water will deliver up to 50,000 acre-feet per year (AFY) (with an associated salt load of approximately 85 to 100 tons per day).

On June 5, 2023, SacSewer entered into a Contract for Administration of Public Water Quality Benefits (CAPB) with the State Water Resources Control Board pursuant to the WSIP regulations. On January 22, 2024, SacSewer entered into a Funding Agreement with the California Water Commission to receive grant funds pursuant to WSIP regulations.

The recycled water deliveries within the Harvest Water service area are anticipated to reduce salt loads to 303(d)-listed waterways in the Sacramento – San Joaquin River Delta (Delta). This element provides a Public Water Quality Benefit under the Water Storage Investment Program (WSIP). This Annual Summary Report documents the progress and status of the Public Water Quality Benefit provided, including a description of any changes to Project Implementation Actions, during calendar year 2024.

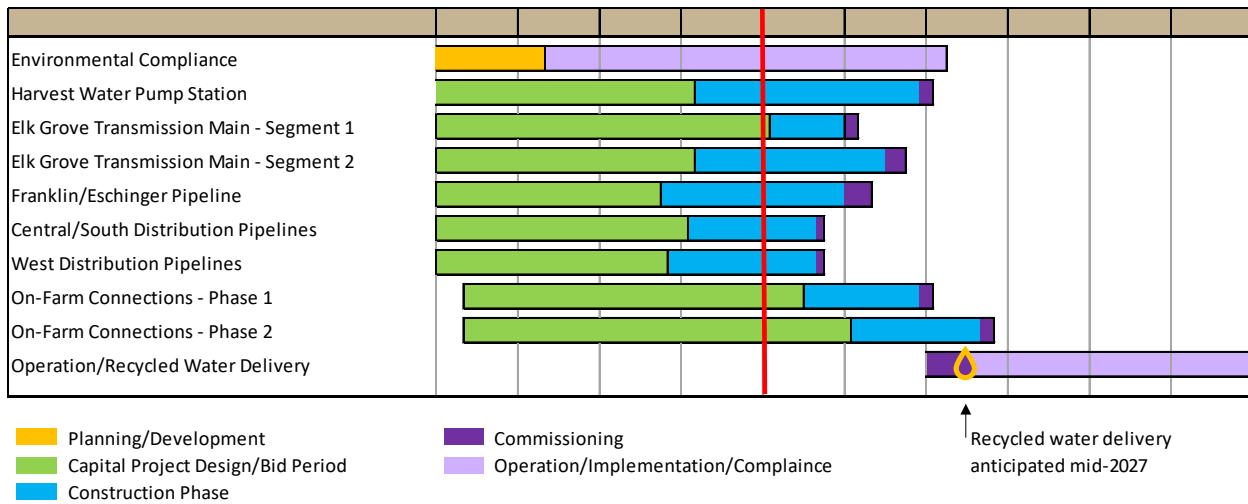
2. HARVEST WATER IMPLEMENTATION UPDATE

Over the course of calendar year 2024, the Harvest Water team continued extensive outreach with the landowners in the service area regarding ongoing project construction, final design of the on-farm connection assemblies (turnouts and meters) on the customers' properties, and updates to the template for the Service Agreement for Harvest Water Recycled Water Use. The updated template was approved by the SacSewer Board in December 2024 and was used to generate final contracts for execution with landowners in 2025.

Construction has started on the pump station and continues on the transmission and distribution systems, with 12.4 of 41.4 total miles of pipe installed as of November 2024. An overview of the construction schedule is provided in Figure 1.

The Program team continued outreach and recruitment of landowners for participation in the ecological program.

Figure 1: Capital Program Schedule Overview



2.1 CAPB Program Years

Many of the implementation and benefit metrics are tied to a “Program Year,” defined as “a full year of Program operations capable of delivering water.” Based on the current schedule, the Program will become operational and begin full operations in mid-2027. Therefore, 2028 is anticipated to be “Program Year 1” as identified in the CAPB. Table 1 identifies the projected calendar year corresponding to the Program Year milestones identified in the CAPB.

Table 1: Projected CAPB Program Years

Program Year	Projected Calendar Year	Program Year	Projected Calendar Year
1	2028	10	2037
3	2030	42	2069
5	2032		

3. PROJECT IMPLEMENTATION ACTIONS

The Project Implementation Action for the Water Quality CAPB is recycled water delivery, measured by two metrics: the percentage of contracts executed for recycled water delivery (recycled water service agreements) within five years of receiving the WSIP final funding award and the volume of Program water delivered annually, beginning in Program Year 10.

3.1 Progress and Current Status

The designer continued work on the final design of the on-farm connection assemblies (OFCAs) and provided technical support for easement documentation for each OFCA location. In December 2024, the SacSewer Board of Directors approved the updated Service Agreement for Harvest Water Recycled Water Use (contract) template and the Harvest Water Recycled Water Rate and Fee Schedule. Subsequently, the Harvest Water team immediately began outreach to execute contracts.

3.2 Challenges and/or Successes

The program team continues to make significant progress in capital project delivery and customer recruitment for successful project start-up, with the first full year of Program operations anticipated in 2028.

3.3 Metrics and Monitoring

3.3.1 Metric 1: Percentage of landowner contract execution

During Phase 1, SacSewer will report the percentage of recycled water delivery contracts executed.

The implementation milestone for this metric is: *to execute 100% of water delivery contracts for 41,250 acre-feet per year within five years of receiving the WSIP final funding award (executed January 22, 2024). During Phase 1, by:*

- Year 1 [January 2025], landowner contract execution representing 20 percent of annual recycled water delivery will be achieved.
- Year 3 [January 2027], landowner contract execution representing 60 percent of annual recycled water delivery will be achieved.
- Year 5 [January 2029], landowner contract execution representing 100 percent of delivery of recycled water annually will be achieved.

Table 2: Metric 1 Reporting for 2024

Reporting Component	Reporting Period Data
Percentage of Contracts Executed by December 2024 (% = AFY contracted / 41,250 AFY)	Contract execution began in January 2025.

3.3.2 Metric 2: Volume of annual recycled water delivered

During Phase 2 (Program Year 10 through the Term of the Contract), SacSewer will report the annual volume of recycled water delivered to Harvest Water customers. The performance threshold is to deliver an average of 41,250 AFY of recycled water to the program area based on a five-year average starting in Program Year 10, except in years when Condition 7 (delivery cutbacks) applies, as specified in Order WW0092.

Table 3: Metric 2 Reporting for 2024 ⁽¹⁾

Reporting Component	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Monthly Recycled Water Delivered (monthly AF)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Annual Recycled Water Delivery (AFY)	n/a											
<u>Notes:</u>												
1. Metrics will be reported beginning in Program Year 1, anticipated in 2028.												

3.3.3 Additional monitoring for information purposes

Once operational, SacSewer will monitor and report the concentration of total dissolved solids (in mg/L) in the recycled water delivered to customers as well as the electrical conductivity (in milli-Siemens per centimeter) of the water. SacSewer will also calculate the annual average pounds per day of salts not discharged to the Delta as a result of the Program.

Table 4: Informational Reporting for 2024 ⁽¹⁾

Reporting Component	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TDS (mg/L), Monthly Average	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Electrical Conductivity (S/m), Monthly average	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Salt Not Discharged to Delta (lbs/day), Annual Average	n/a											
<u>Notes:</u> 1. Metrics will be reported beginning in Program Year 1, anticipated in 2028.												

3.4 Water Year Impacts on Recycled Water Deliveries

Program recycled water deliveries are subject to SacSewer's wastewater petition Order WW0092, issued by the SWRCB's Division of Water Rights, which includes two conditions that that will restrict water deliveries in Dry and Critically Dry water years and Shasta Critical years (as defined in Order WW0092), during the early phases of the Program. Beginning in Program Year 1, this report will include a description of how Order WW0092 conditions affected recycled water deliveries.

In addition, there are functional limits on demand for recycled water in wintertime months with high precipitation. Beginning in Program Year 1, this report will include representative monthly precipitation for the Program area and a description of how precipitation affected wintertime recycled water deliveries.

3.5 Changes to Project Implementation Actions

There were no changes to the project implementation actions in calendar year 2024.

4. CONCLUSION

For questions or comments please contact Jofil Borja at borjaj@sacsewer.com or 916-876-6054. The next annual report will cover calendar year 2025 and will be submitted by April 30, 2026.