



Subcommittee on Pure Water Southern California  
and Regional Conveyance

# Pure Water Southern California Program Quarterly Update and 2023 Cost Estimate Details

Item 3a

January 23, 2024

# Item 3a PWSC Quarterly Update

## Subject

Pure Water Southern California Quarterly Program Update

## Purpose

To provide an update on the PWSC recent program efforts, provide cost estimate back-up information, update status of LSWRP Grant Program and Feasibility Study, public outreach support and upcoming MetWorks Industry Day

## Next Steps

Continue Environmental Phase planning efforts and Program work associated with the State funds

Item 3a  
PWSC  
Quarterly  
Update

## Agenda

- Summary of completed and ongoing work
- Cost Estimate Methodology memorandum
- Large Scale Water Recycling (LSWR) Grant
- Public Outreach Support
- MetWorks Industry Outreach Event



# Program Implementation: Use of State Funds

## Item 3a PWSC Quarterly Update

- Program Management efforts include:
  - Sequencing/implementation methodology
  - AWT Request for Qualifications development
  - LSWR Grant request development
- Preliminary Design of pipeline Reaches 1 & 2
- Demo plant tMBR optimization plan and testing
- Sustainability (Envision) approach & training
- Cost estimate details memo
- Public Outreach

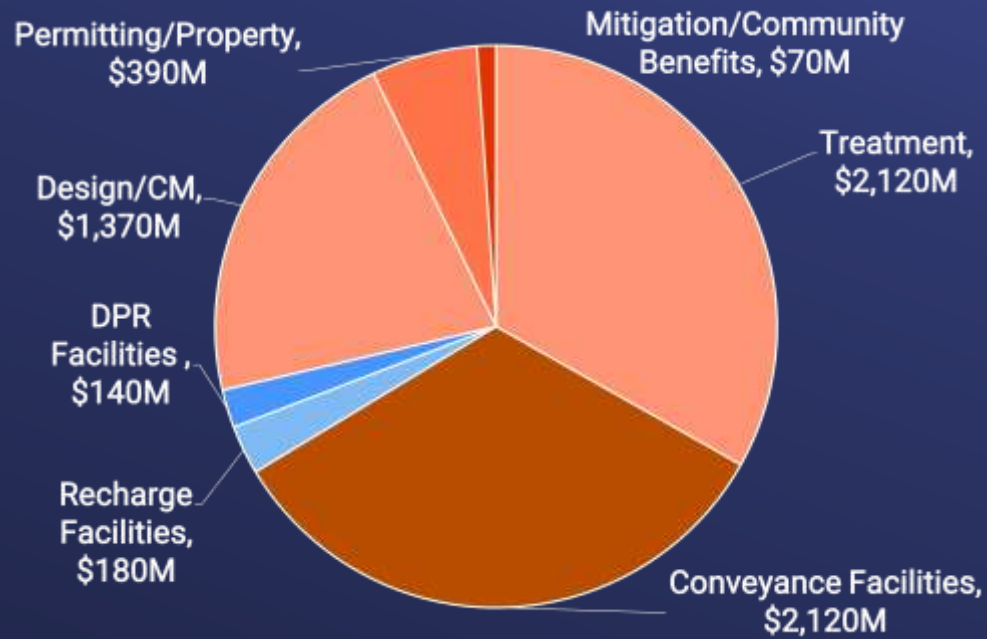


# Current Expenditures and Budget Status

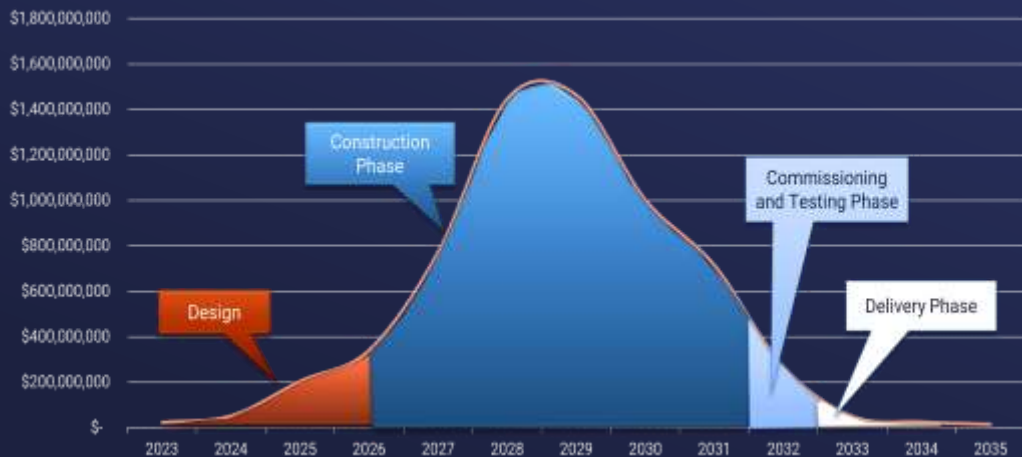
- All expenditures to date are O&M
- Environmental Planning phase work is to be complete by 3<sup>rd</sup> quarter 2025
- Budgets do not currently assume any federal grant funding

Budget Status	Environmental Planning Phase Funds	Project Implementation State Funds
Total Budgeted Funds	\$30M	\$80M
Expenditures to Date (12/23)	\$20.6M	\$5.2M
Total Third Party Commitments	\$16.4M	N.A.
Third Party Contributions Invoiced to date	\$5.3M	N.A.

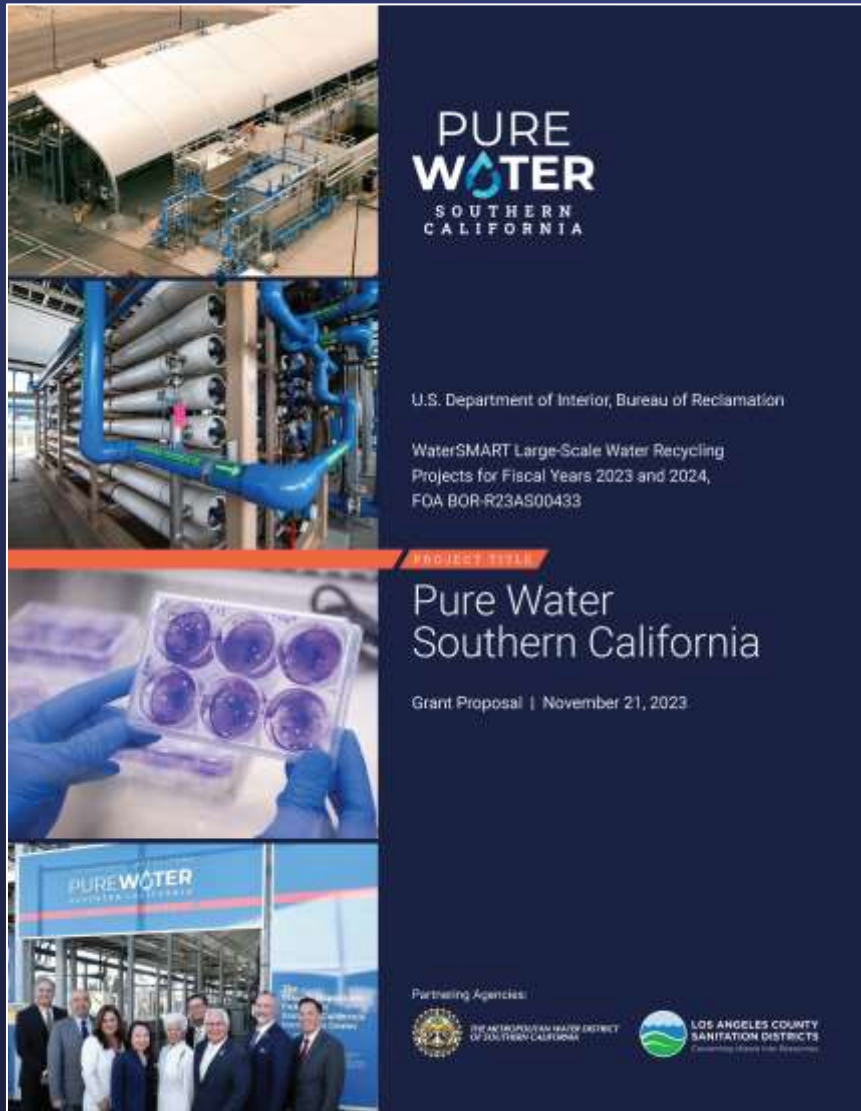
# Cost Estimate Methodology Memorandum



- Memorandum is included in the Subcommittee packet
  - Response to November questions
  - Subcommittee request for back-up cost information
- Cost memo information includes:
  - Methodology/Approach
  - Cost Estimates
  - Appendices with supporting detailed cost development information



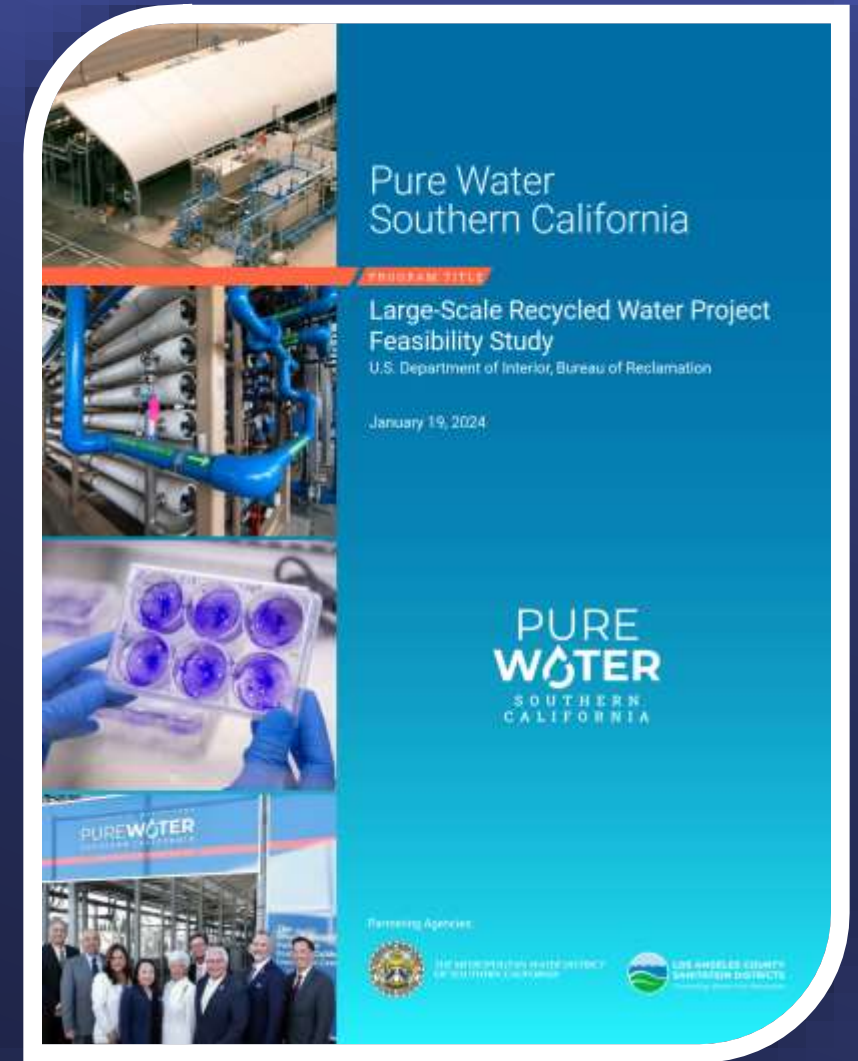
# USBR Large Scale Water Recycling Grant Program



- Key LSWR Program Dates:
  - Grant application: November 21, 2023
  - Feasibility Study: January 19, 2024
  - Cost eligibility based on approval of Feasibility Study
- LSWR Total Program Authorization
  - FY 22-26 Funding: \$450M
  - FY 23/24 Funding: \$180M (initial issuance)
- Application submitted November 20, 2023
  - Requested \$125M
  - Funds for work planned April 2024 through November 2026
  - Non-federal cost share required

# LSWR Grant – Feasibility Study Project Definition

- Feasibility Study presents PWSC and includes:
  - Technical Proposal/Evaluation Criteria
  - Project Budget & Narrative
  - Environmental/Cultural Resources
  - Permits and Approvals
- Eligible costs for federal funding include collection/treatment/distribution
- PWSC Phase 1 Project Cost: \$6.17B
- 47 Letters of Support
- Authorizing Resolution and Letter of Funding Commitment upon award





# LSWR Grant – PWSC Project Definition

## Sequencing Plan

Milestone	Date
Initiate Preliminary Design Phase	July 2023
Authorize AWPf PDB contract	End of 2024
Publish Draft EIR	End of 2024
Approve Final EIR	Fall 2025
Complete R1 and R2 Final Designs	End of 2025
Start Phase 1 Construction	Spring 2026
Start Testing and Commissioning	1 <sup>st</sup> Quarter 2032
NPR/IPR Water Delivery	End of 2032
DPR Water Delivery	TBD

## Anticipated Facilities



# LSWR Grant - Proposed Scope of Work

## A.K. Warren Facility- Sidestream Centrate

- 70%, 90% and 100% design, Bid documents

## A.K. Warren Facility- Site Preparation

- 30% design

## AWPF Process Design

- Progressive Design-Build procurement
- 60% design and guaranteed maximum price negotiation

## Public Engagement & Interagency Coordination

- On-going public engagement activities including educational content, partner mtgs

## Conveyance and Ancillary Facility

- 100% design (Reaches 1 & 2)
- 60% design (Reaches 3-8)
- 30% design (Azusa Pipeline)
- 50%/100% design (Recharge Facilities)

## Environmental & Permitting

- CEQA/NEPA documentation
- Permitting plan and initiate permitting
- Engineers Report (Indirect Potable Reuse Regulatory Approve)

## Direct Potable Reuse/Reverse Osmosis Concentrate Pilot Testing

- Pilot testing and DPR treatment train
- Bench-scale ROC testing

## Other

- Program management activities
- Property acquisition
- Easements / Right of Ways / Surveys

# LSWR Grant: Anticipated Expenditures

Spending Year	Target Eligible Spending
2024	\$30,000,000
2025	\$200,000,000
2026	\$270,000,000
<b>TOTAL GRANT</b>	<b>\$500,000,000</b>

- Estimated PWSC Project expenditures from April 2024 through November 2026
  - No construction costs
  - Agency staff and consultant time
- Anticipated notification in February-April 2024
- Approved Feasibility Study required for reimbursement
- This schedule and level of spending is required to meet the 2032 completion milestone

# LSWR Grant: Ask and Match Considerations

Activities	Total	25% Federal	75% Non-federal
Total LSWR Grant Request	\$500,000,000	\$125,000,000	\$375,000,000
Available Matching Funds (State Grant)			\$68,000,000
Non-Fed Match Component			\$307,000,000

- Funding awarded by Reclamation may be different from the ask
- Three agencies known to have applied for LSWR grant funding
- Scope of work would be modified to match award amount
- Funding can also be requested during next 2 application periods
- Matching funds by Metropolitan, Sanitation Districts, other funding

# PWSC Quarterly Update



## Program Outreach Events & Tours

- Continued Napolitano Innovation Center tours
- Continued Stakeholder Outreach/Engagement
- Public Opinion Research on Direct Potable Reuse
- Community Benefits Research and Development
- Discussing EIR outreach plan

# PWSC Industry Outreach & Collaboration



Carson Events Center

## Industry Outreach Activities

- WateReuse & WEFTEC Symposium presentations
- MetWorks Pure Water Networking Event
  - March 7, 2024
  - RFQ 1365 – AWPf PDB
  - Other upcoming PWSC projects will also be discussed

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA  
presents  
**METWORKS**  
PURE WATER SOUTHERN CALIFORNIA  
NETWORKING EVENT

**THURSDAY  
MARCH 7, 2024**  
8:00 a.m. - 12:00 p.m.

**CARSON EVENT CENTER**  
801 E. Carson Street  
Carson, CA 90745

**Learn about:**

- The status, scope, and schedule for a Progressive Design-Build contract opportunity for the Pure Water Southern California Program's Advanced Water Purification Facility (AWPF) RFQ
- How prime contractors and consultants build their project teams

Total value of new treatment facility is approximately \$2B, with multiple contract awards expected.  
Additional program information can be found at: [www.mwdofso.com/purewater](http://www.mwdofso.com/purewater)

Small Business and Disabled Veteran Business Participation Requirement: minimum 25%  
This project will be subject to the requirements of a Project Labor Agreement

**Tentative Schedule:**

- Spring 2024: issue RFQ
- End 2024: award contract
- 2030: deliver 30 MGD
- 2032: deliver 115 MGD

 THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

 LOS ANGELES COUNTY SANITATION DISTRICTS  
Converting Waste into Resources

**REGISTER**  
Click here:  
<https://www.constructioncontactpages.com/req/c7e52d1a/05b4f762-e920-4aed-9c25-e869c371143a>  
or scan QR Code to register for event.

**INFO**  
Scan QR Code for more information on  
**METWORKS**

