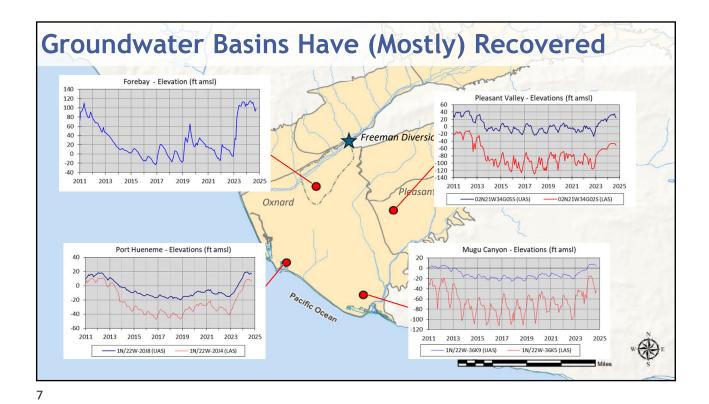


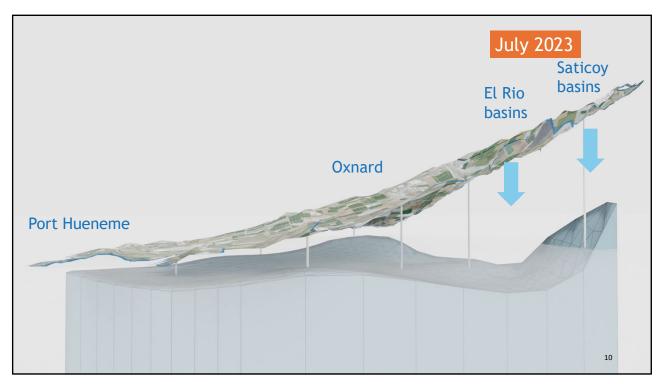
Groundwater Basins Have (Mostly) Recovered Santa Paula (03N21W16K01) - Elevation (ft amsl) 220 210 Piru Basin (04N18W29M02) - Elevation (ft amsl) Santa Paula 190 620 600 580 560 2011 2013 2015 2017 2019 2021 2023 Freeman Diversion 540 520 500 Fillmore Basin (03N20WA01) - Elevation (ft amsl) 480 370 350 330 320 2011 2013 2015 2019 2021 2023 2025 Pacific Ocean 6

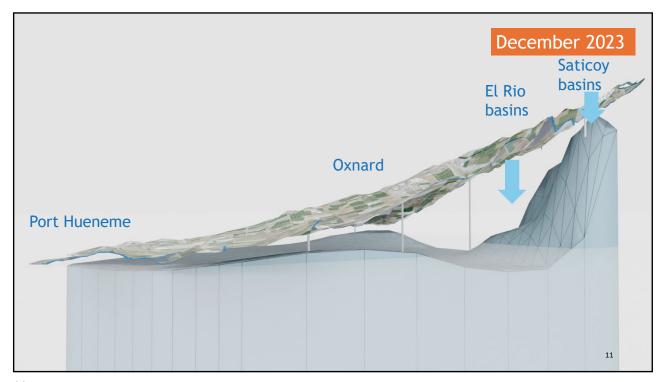


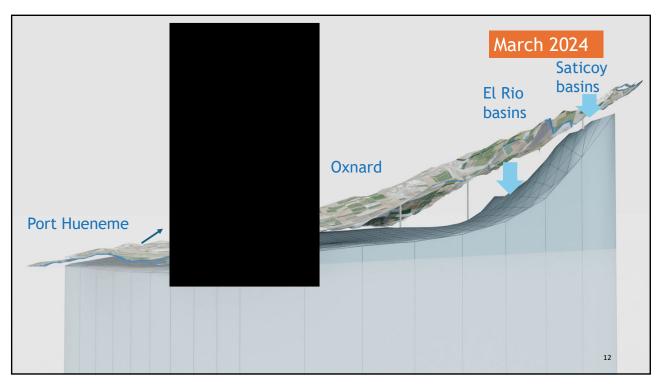
A Closer Look at Oxnard Basin

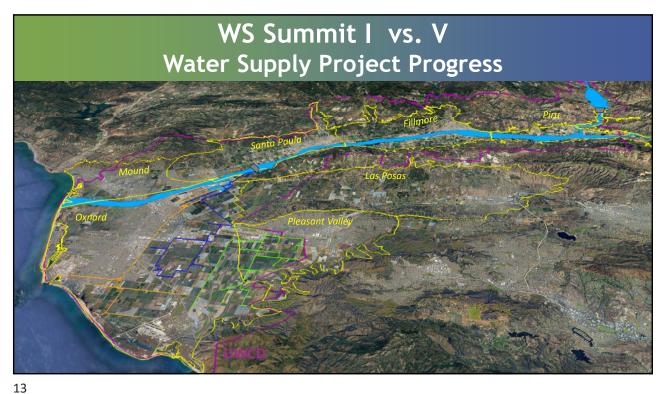
Oxnard

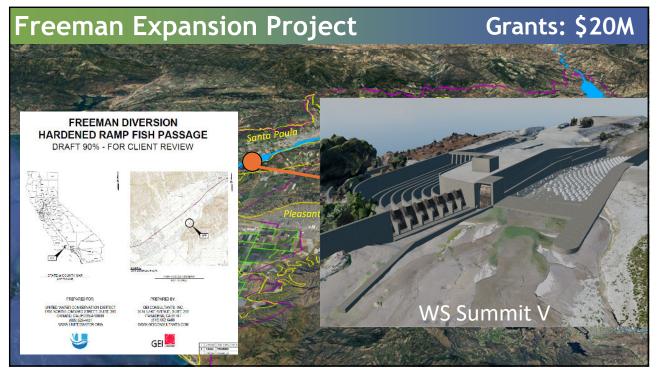




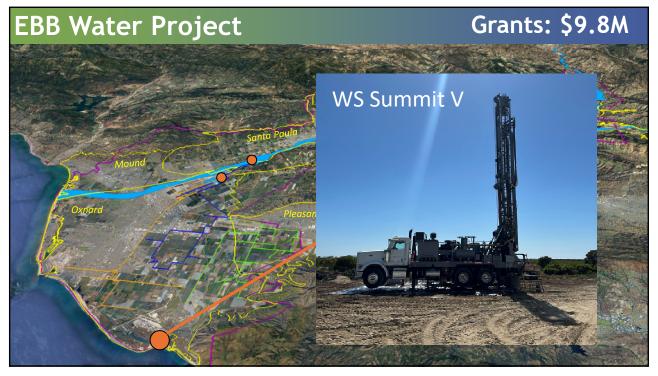


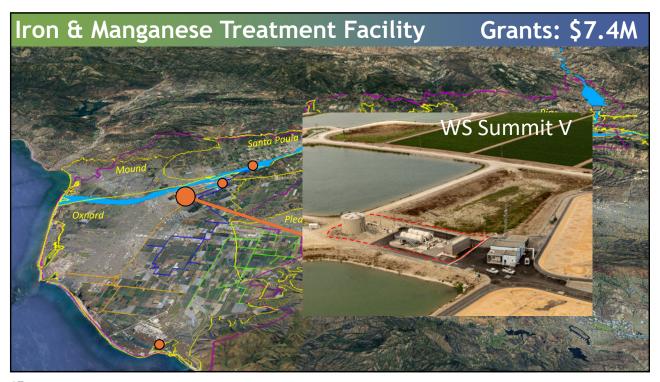


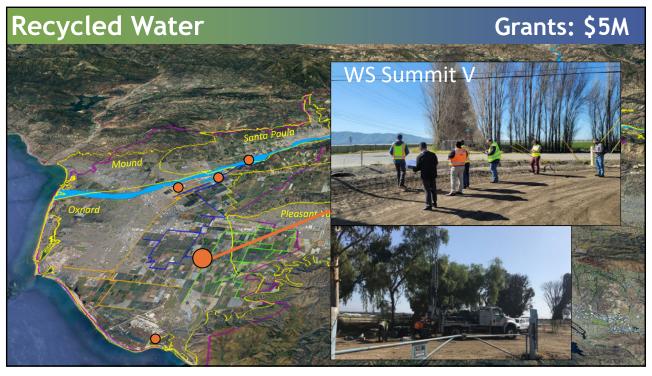


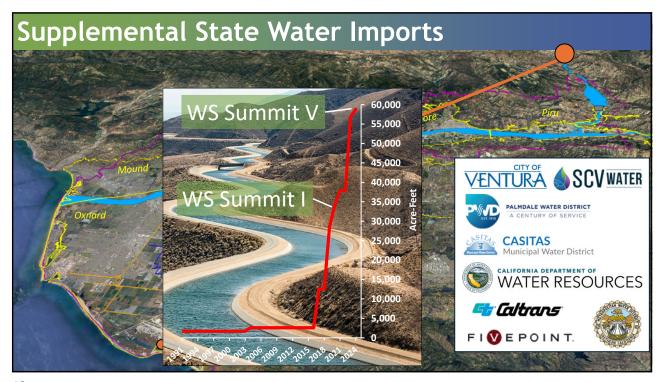




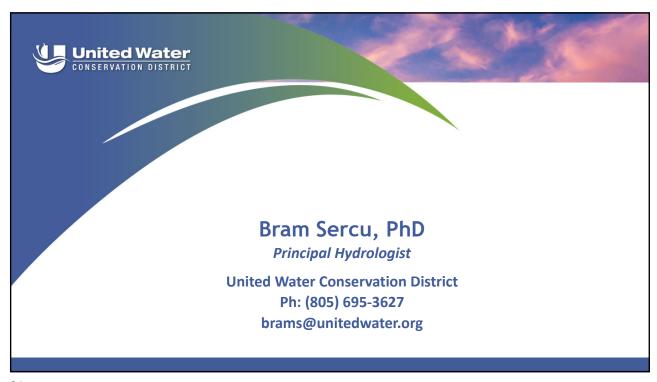








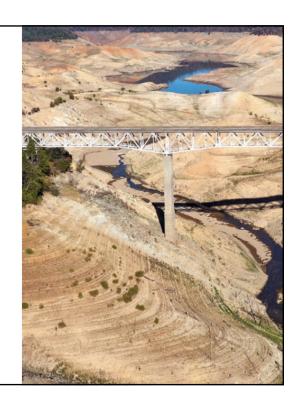






## Drought Challenges...

- 2021 and 2022 were two of the driest on record and had the lowest back-to-back allocations (5%) on the SWP.
- Metropolitan could not physically deliver its stored water to Calleguas and five other Member Agencies.
- Metropolitan's Emergency Water Conservation Program (June 2022-March 2023) mandated reduced demands for these Member Agencies only, requiring one-dayper-week outdoor watering in the Calleguas service area.



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## ...And Drought Solutions

 Since 2022-23 Metropolitan has made:

- Operational changes

- Infrastructure improvements

 Additional infrastructure improvements underway





# A New Model for Resilience

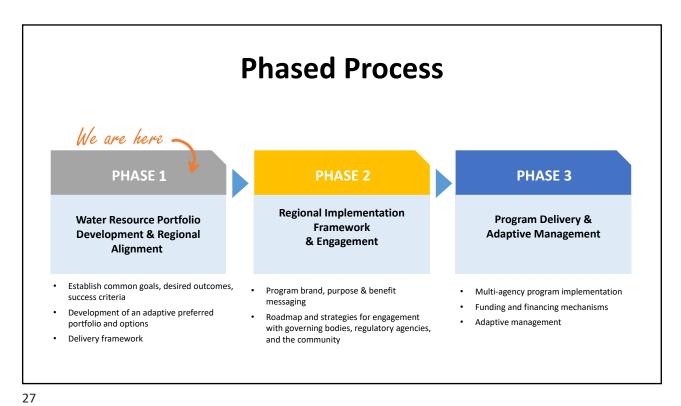
Calleguas's Board determined that its future will involve greater resilience through partnerships and regional collaboration to develop water supply, storage, conveyance, and programs.

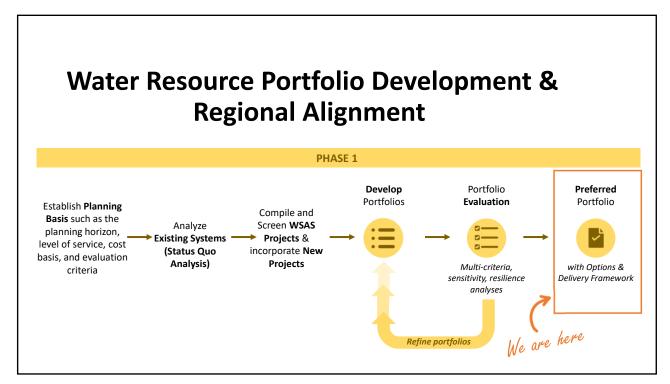
25

## Water Resources Implementation Strategy (WRIST)

- Build on history of extensive regional collaboration to enhance existing partnerships and forge new ones.
- Address long-term water supply reliability and resiliency along with outages.
- Characterize and evaluate portfolios of projects with a regional focus.
- Acknowledge risks and uncertainties and develop an adaptive management plan to address them.













## **WRIST**

#### **Interviews**

Summer 2023

#### **Interim Work Sessions**

March 2024

#### **Partner Workshops**

July 2023 November 2023 April 2024 October 2024

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## **Portfolio Findings**



Investment in local supply projects provides greater reliability at a lower long-term cost relative to the Status Quo, while significantly reducing demand for imported water.



Investment in local supplies and local storage provides the greatest reliability and resilience but will require West to East Transmission to fully utilize all supplies and increases portfolio costs.



Drought storage projects provide increased reliability but have high unit costs due to the high cost of imported (stored) water and infrequent use.



Local projects can be adaptively phased to incrementally increase reliability while moderating cost

# WRIST Portfolios Lowest Cost Local Supply & Control Imported Water Optimization Reliability & Resilience Adaptability Emphasis Groundwater Sustainability and Recycled Water Emphasis

Draft

Preferred

Portfolio

#### Common to all Hybrid Portfolios

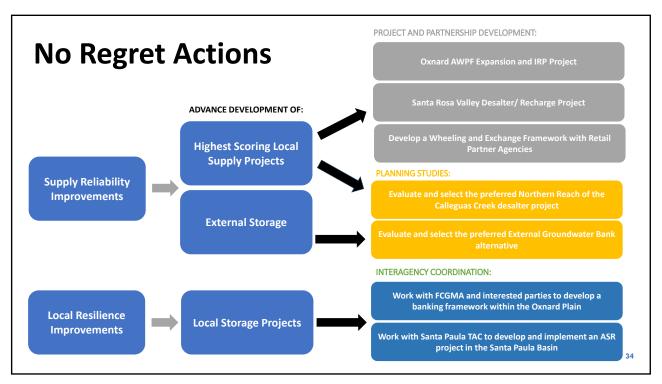
- Oxnard AWPF Expansion and IPR Project
- Northern Reach of Calleguas Creek Watershed Desalter Project
- Santa Rosa Valley Desalter/ Recharge
- West-East Transmission
- New Newbury Park Wells with Treatment
- Increase Pleasant Valley Basin Pumping Capacity to Extract Camrosa Water District Credits

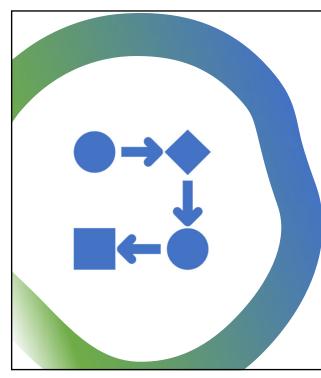
## Other Top Performing Projects from Hybrid Portfolios

- Additional ASR in Santa Paula Basin
- · Oxnard Plain Program
- South Oxnard Plain Brackish Water Treatment Facility (UWCD Extraction Barrier Brackish Water Treatment Project with conveyance to Calleguas)
- External Groundwater Bank
- Expansion of Camrosa Non-Potable Water System

## Draft Preferred Portfolio and Options

Project	Risk	Optional Projects
Oxnard AWPF Expansion and IPR Project	Med	
Northern Reach of Calleguas Creek Watershed Desalter Project (NPV, Moorpark, Simi Desalter)	Med	
Santa Rosa Valley Desalter/ Recharge/ IPR	Low	
West-East Transmission	Low	
New Newbury Park Wells with Treatment	High	Los Robles Desalter
Increase Pleasant Valley Basin Pumping Capacity to Extract Camrosa Water District Credits	Med	
Oxnard Plain Program	High	Lake Casitas Storage
Additional ASR in Santa Paula Basin	Low	
South Oxnard Plain Brackish Water Treatment Facility	High	Ocean Desalination
External Groundwater Bank	Low	
Expansion of Camrosa Non-Potable Water System	Med	





# Adaptive Management Approach

- Implement No Regret Actions first
- At future decision points, evaluate then-current conditions to determine:
  - The need and timing of additional projects from the Preferred Portfolio.
  - Optional projects should Preferred Portfolio projects not come to fruition.

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## **Next Steps**



### Through 2024

Wrap up Phase 1 WRISt Report



#### 2025

Initiate Phase 2:

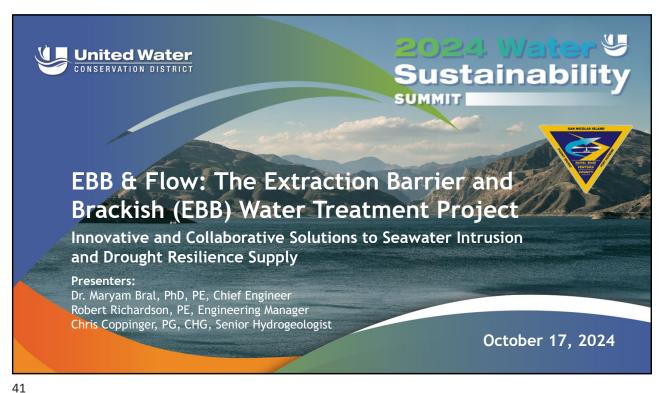
- Engage Partners
- Further Develop Projects



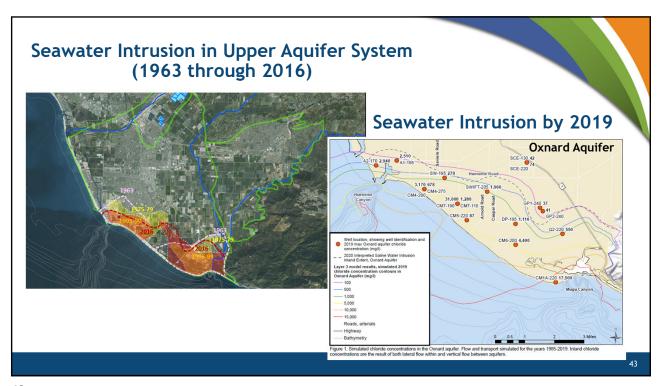


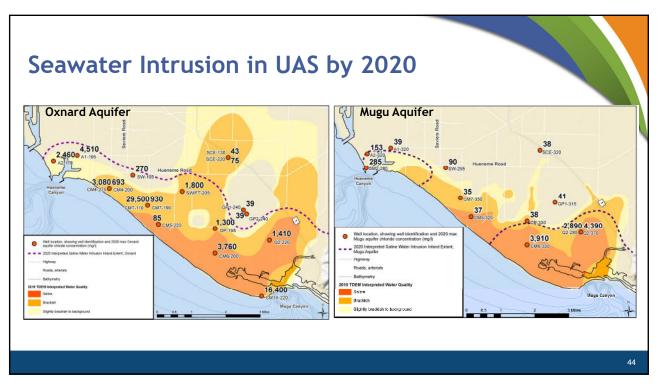


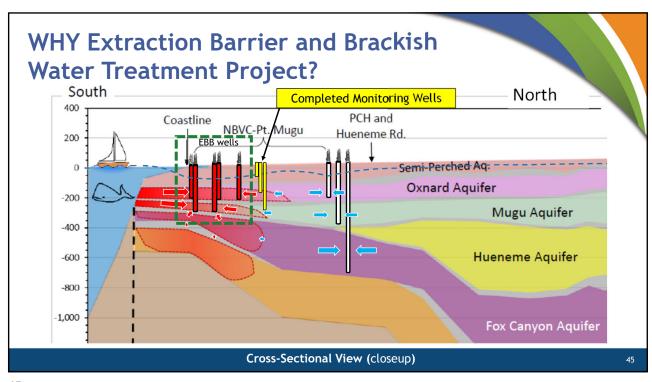












# Progress Update Since 2023 Summit



Does Anyone Still Think the EBB Water Project is "Pie in the Sky?" No More!

- Execution of a Memorandum of Agreement (U.S. Navy & United) November 9, 2023
- Extension of US Navy License Agreements
   February 2023-2025
- Design and Construction of New Monitoring Wells 2023-2024
- Submittal of the Outgrant Easement Letter Request October 2023
- On-going Field Investigations & Assessments (Geotechnical Exploration, Surveys) 2023-2024
- Advancement of Design and CEQA/NEPA Permitting 2022-2025
- Execution of the SWRCB Prop 1 Round 3 Grant Agreement June 2024

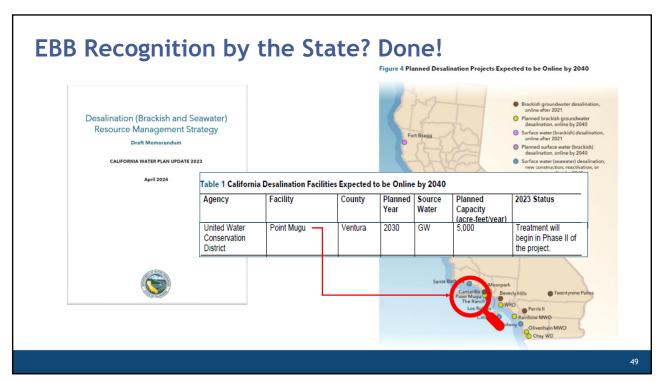
**RR0** Animate each bullet update so they come in the order shown. Robert Richardson, 2024-10-14T21:51:07.551

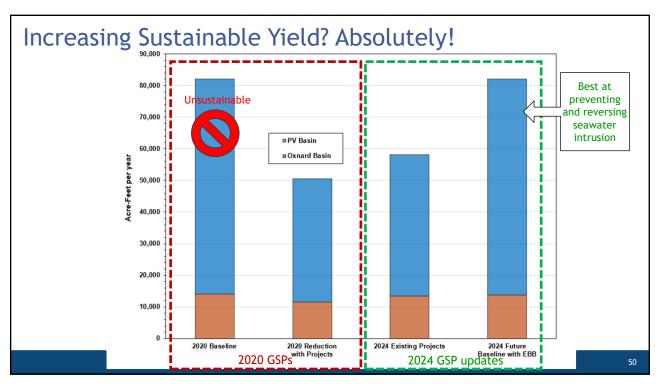


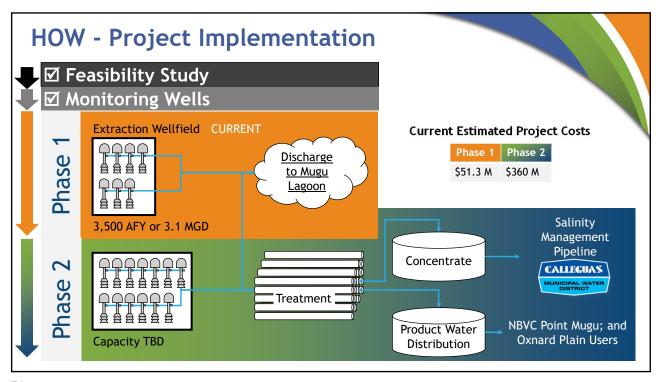


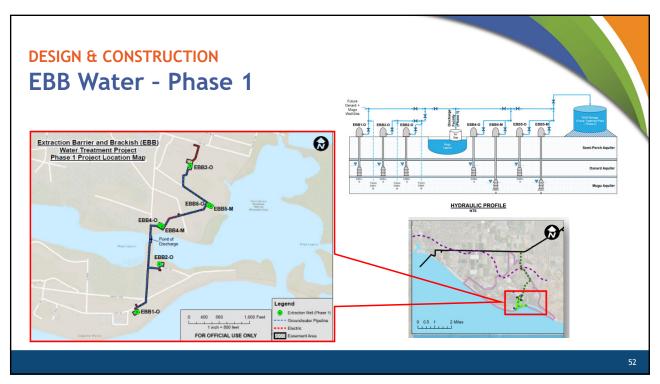
## RRO Is there better logos? Robert Richardson, 2024-10-14T21:50:44.788

## RR1 Is there better logos? Robert Richardson, 2024-10-14T21:50:54.010

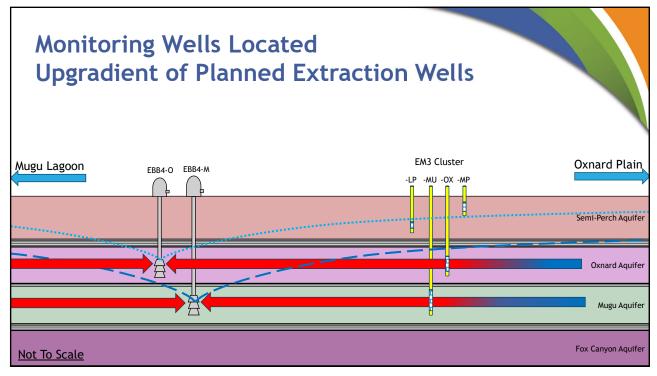


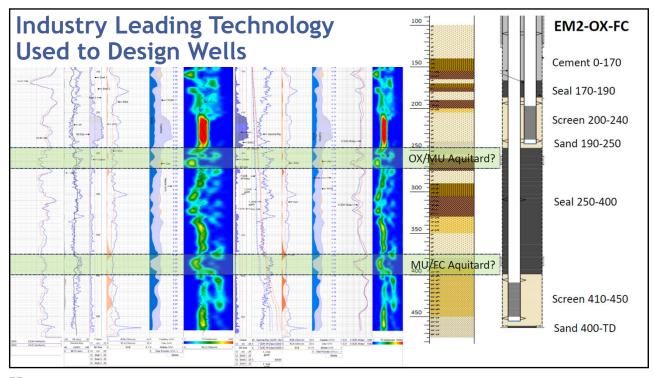


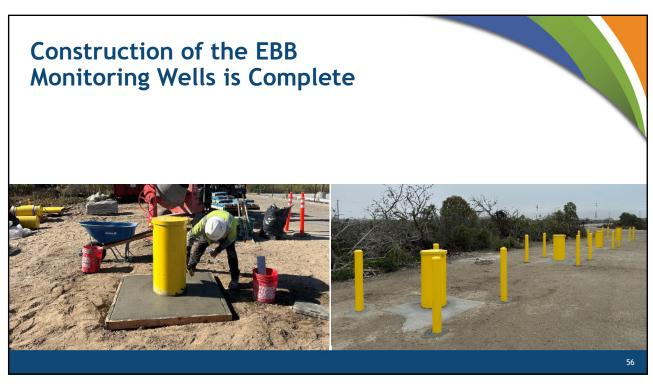












## **Extraction Well Site Field Investigations**





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## Additional Design-Related Field Investigations



**Bathymetry Study** 



Sheer Vane Study



Topographic Survey



**Velocity Survey** 

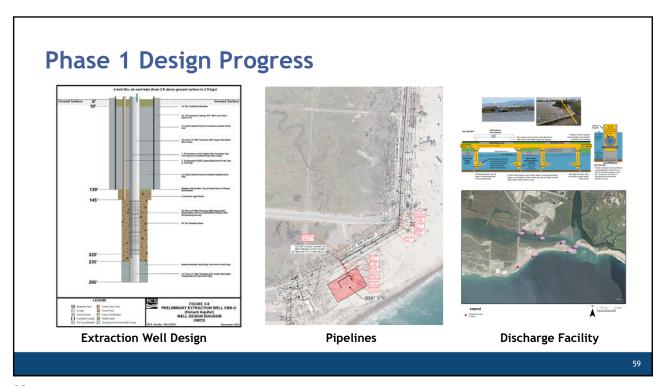


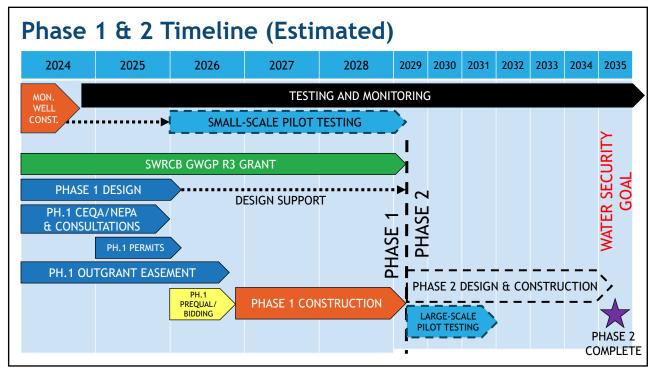
Geotechnical Exploration

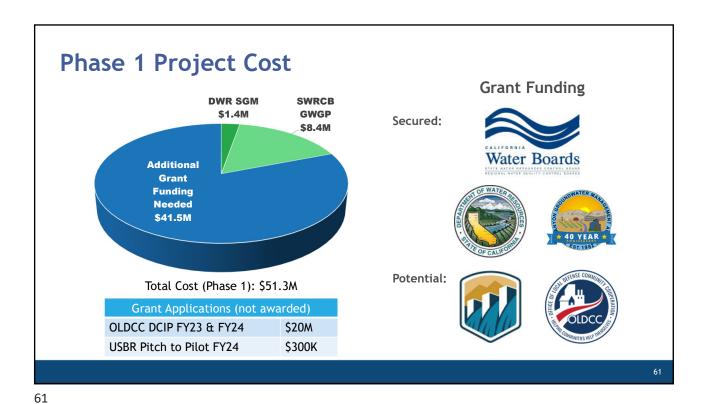


**Electrical Survey** 

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Public Outreach

LAFCO
March 2023

2024 CalDesal Conference
February 2024

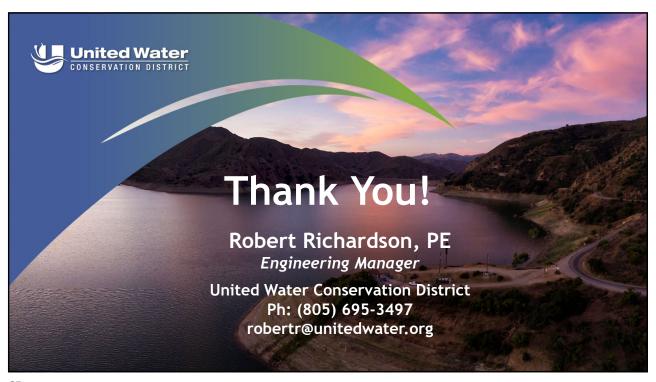
ACE24 Conference
June 2024

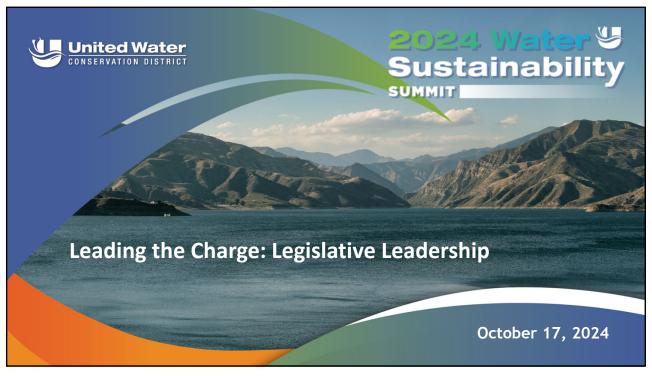
ACE24 Conference
June 2024

ACE24 Conference
Sune 2024



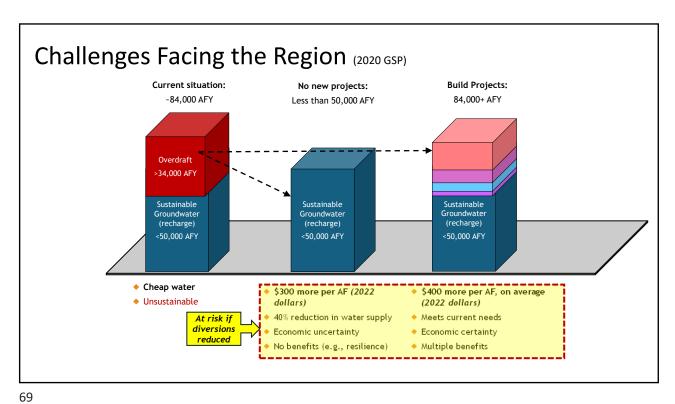


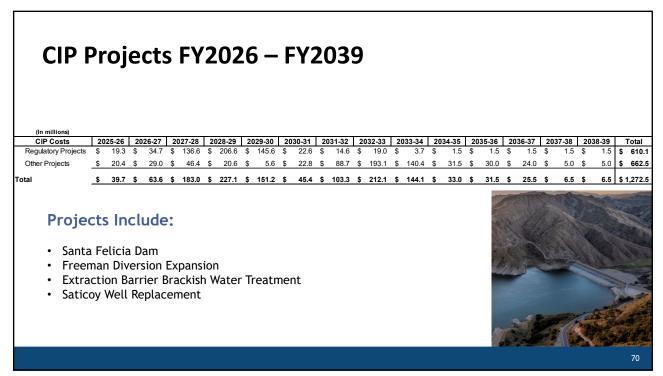


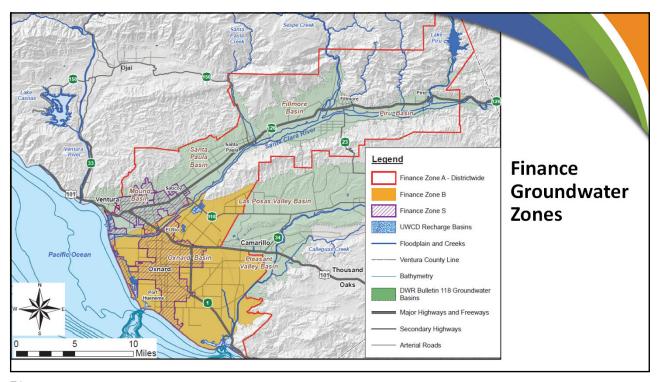






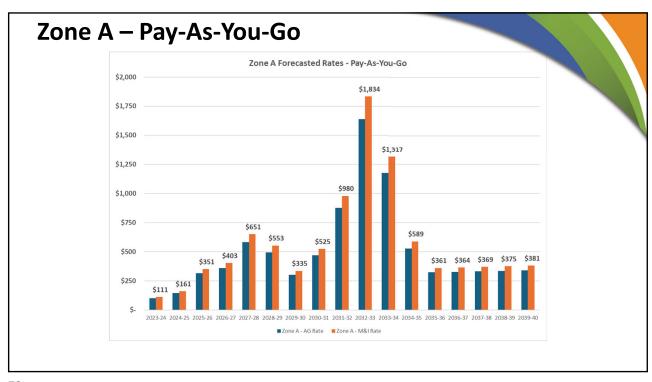


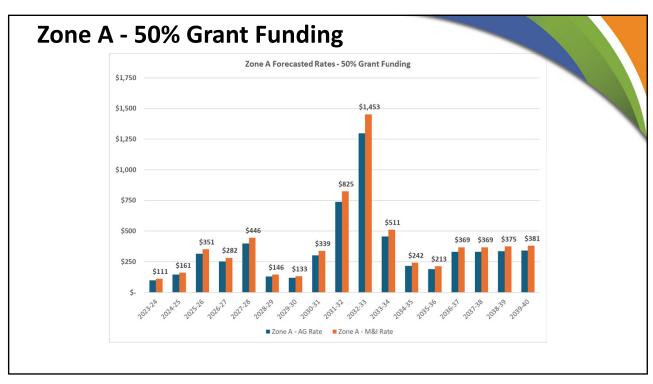


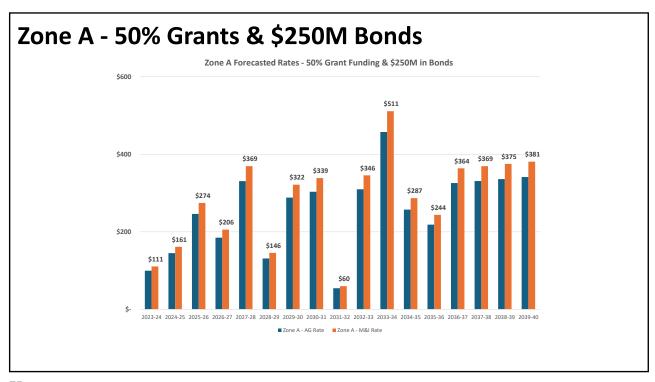


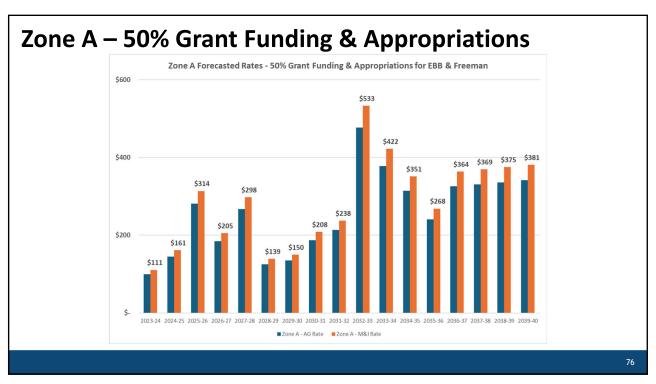
# Zone A (General Water Conservation) Assumptions

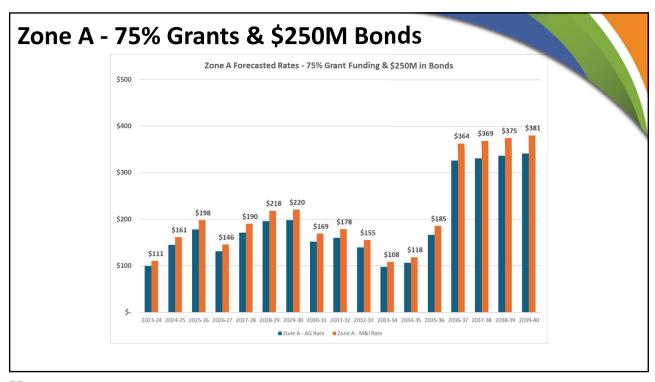
- Revenue and Expenses trended from 2024 and 2025 budget
- Taxes and Other Revenue held flat
- Personnel Costs increase 4% per year
- Operational expenses reduced a total of 7% over 2 years and then increased 1% per year
- Capital spend decreased a total of 30% over 4 years and then increased 3% per year
- WIFIA loan adds \$7.6M per year for 30 years starting in 2030-31 (potential for 5-year deferment)
- \$250M Bonds allocated to Zone A Projects
- Santa Felicia Dam and EBB costs are included as Zone A costs for the entire District
- EBB adds \$16.4M per year for Operational costs to maintain and operate the facility 2034-35

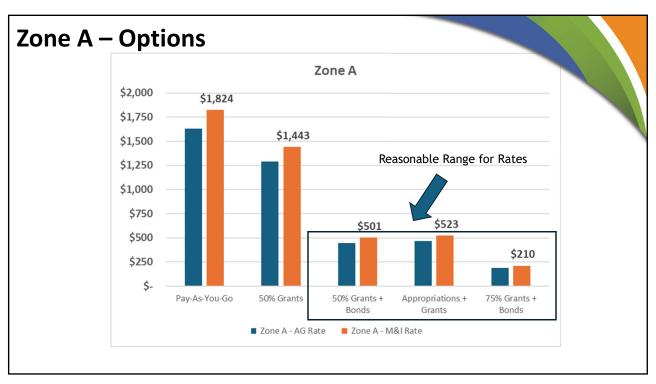


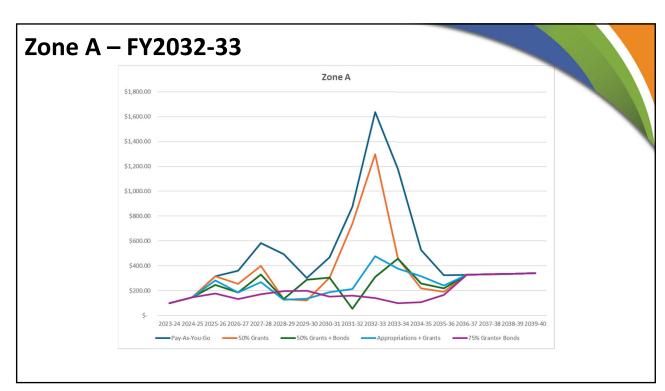












# Zone B (Freeman Diversion) Assumptions

- Revenue and Expenses trended from 2024 and 2025 budget
- Other Revenue held flat
- · Personnel Costs increase 4% per year
- Operational expenses increased 1% per year
- · Capital spend increased 1% per year
- CIP spend held to approximately \$1.5M for non-construction years
- Operational costs increase \$3.2M annually for environmental conservation efforts and operational costs of Multiple Species Habitat Conservation Plan (MSHCP)
- \$100M Bonds allocated to Zone B Projects
- Zone B rates represent the full cost for Zone B

