



March 21st, 2023





Outline

- Water Supply Outlook for 2023-2024 CVP Allocation, Rescheduling and Transfers
- 2023-2024 Adopted Budget, Water Rates, Charges and Assessments
- Groundwater Conditions and Sustainable Groundwater Management Act Update
- Operations and Maintenance Update
- Public Relations
- Questions and Answers



2023-2024 Water Supply Allocation

- Initial CVP South of the Delta Ag Allocation is at 35%. The District expects the Bureau will update the Allocation by the EOM. The District is forecasting a final Allocation of up to 65-75%.
- SWP Allocation currently 35%



2022-2023 End of Year Totals

(acre-feet)

2020 Carryover/Stored Supplemental Water	18,472
2021 Supplemental Water	149,105
2022 Supplemental Water	22,703
M&I / PHS	4,077
Grower Transfers	<u>37,605</u>
Total Surface Water Supply:	231,962
Total Rescheduling/Carryover Storage Loss	-10,476
Total Use	<u>-146,234</u>
2022-2023 Total Remaining Supply:	75,252
2022-2023 Carryover/Stored Water:	75,252
Groundwater Management Program (GWMP)	179,944
Non-GWMP Groundwater	<u>409,056</u>

Total District Groundwater:



589,000

2023-2024 Water Supply Forecast

(acre-feet)

Total Surface Water Supply:	1,056,463
Transfers & Supplemental Water	<u>83,500</u>
Carryover/Stored Transfer Water	75,252
CVP Contract(s) (75%)	897,711

Non-GWMP Groundwater 70,000
Groundwater Management Program 20,000
Total District Groundwater Pumping: 90,000

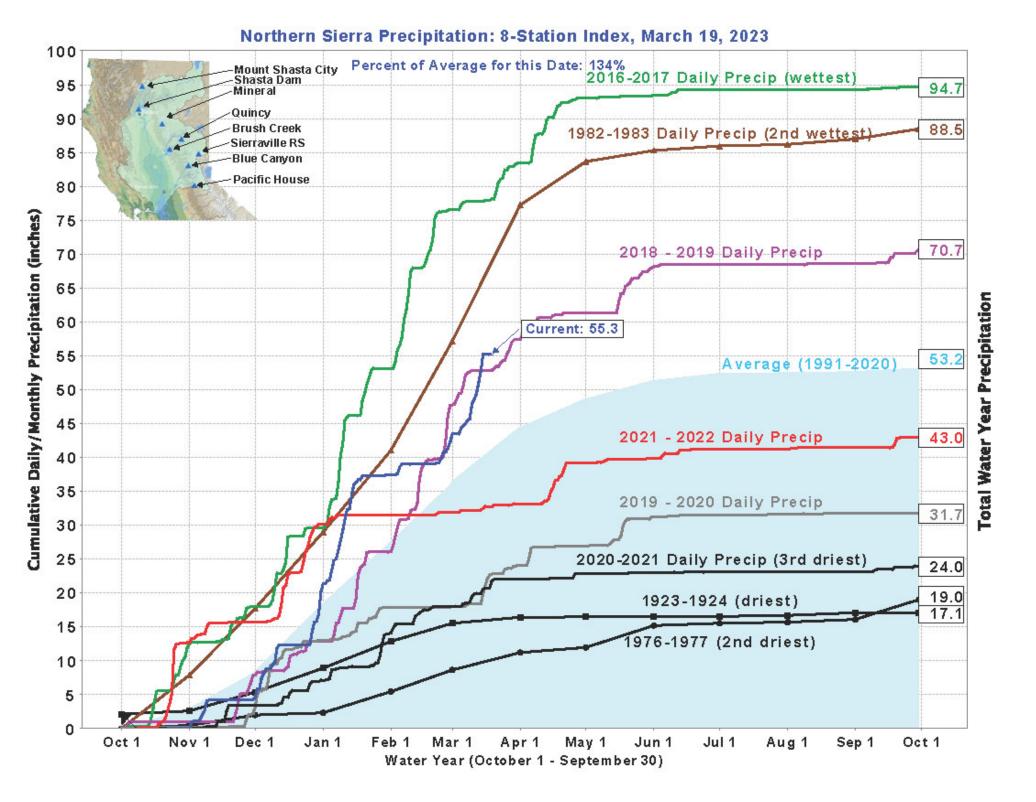


Supplemental Water Supply

2023-2024

- Applications are due May 1st
- Advance payment required, at time water made available for allocation
 - Delinquency may result in water not being made available
- Timing of availability The District anticipates that a substantial allocation of Supplemental Water to water users could occur in late spring, based on water available from the San Joaquin River Exchange Contractors



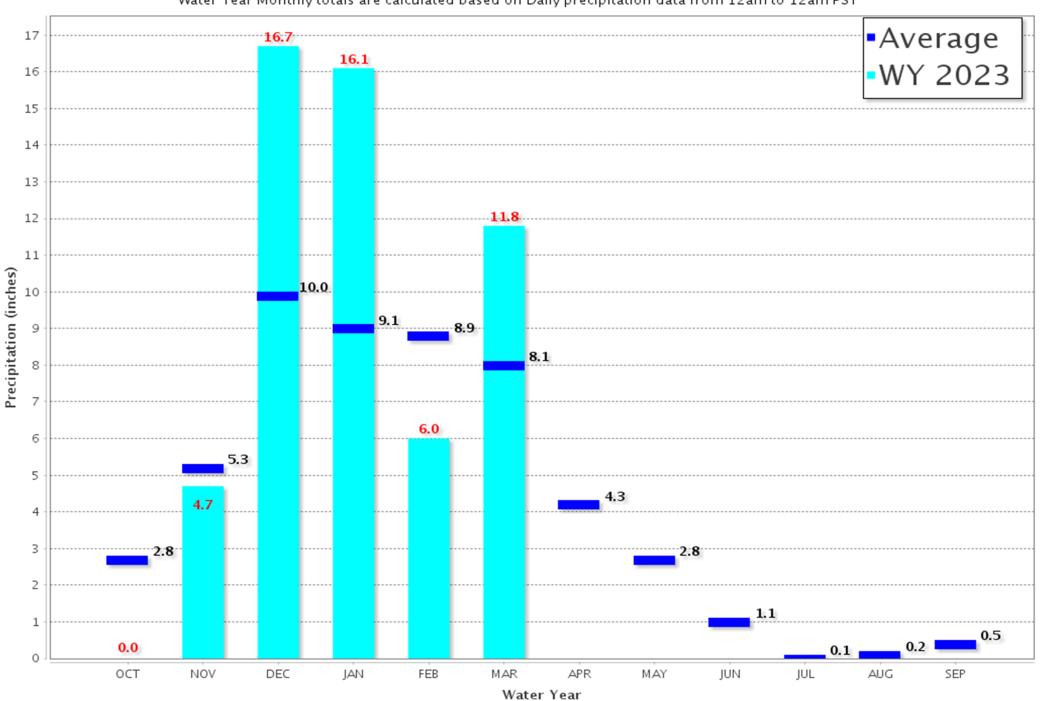


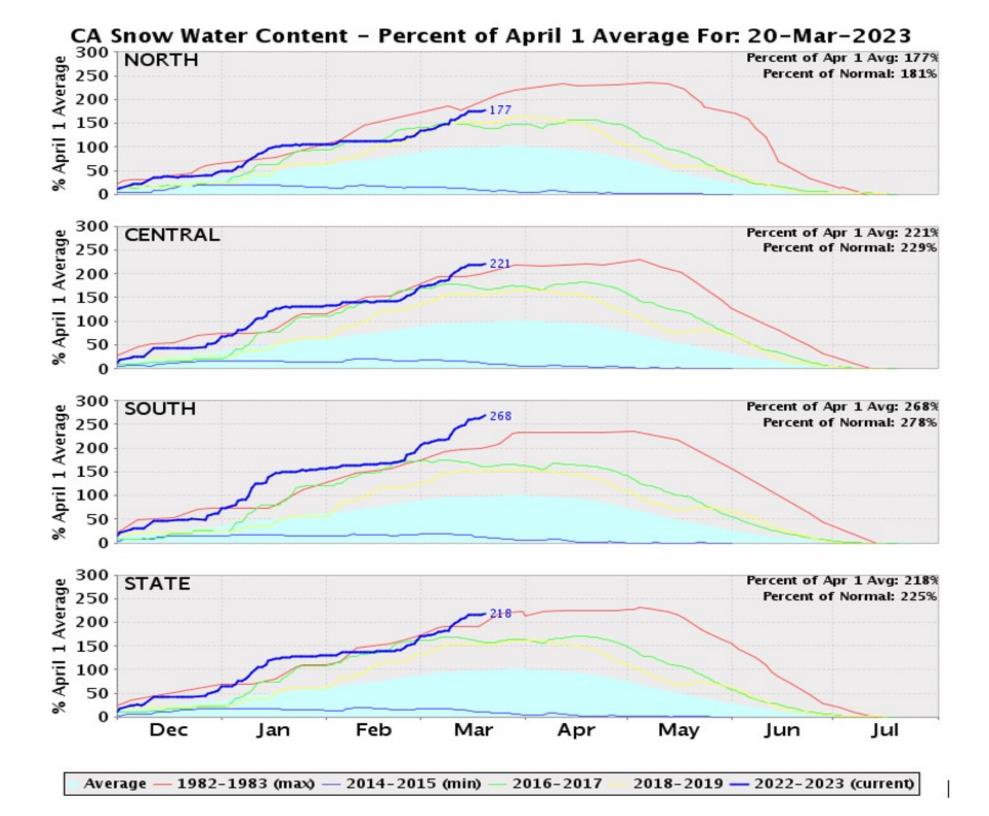


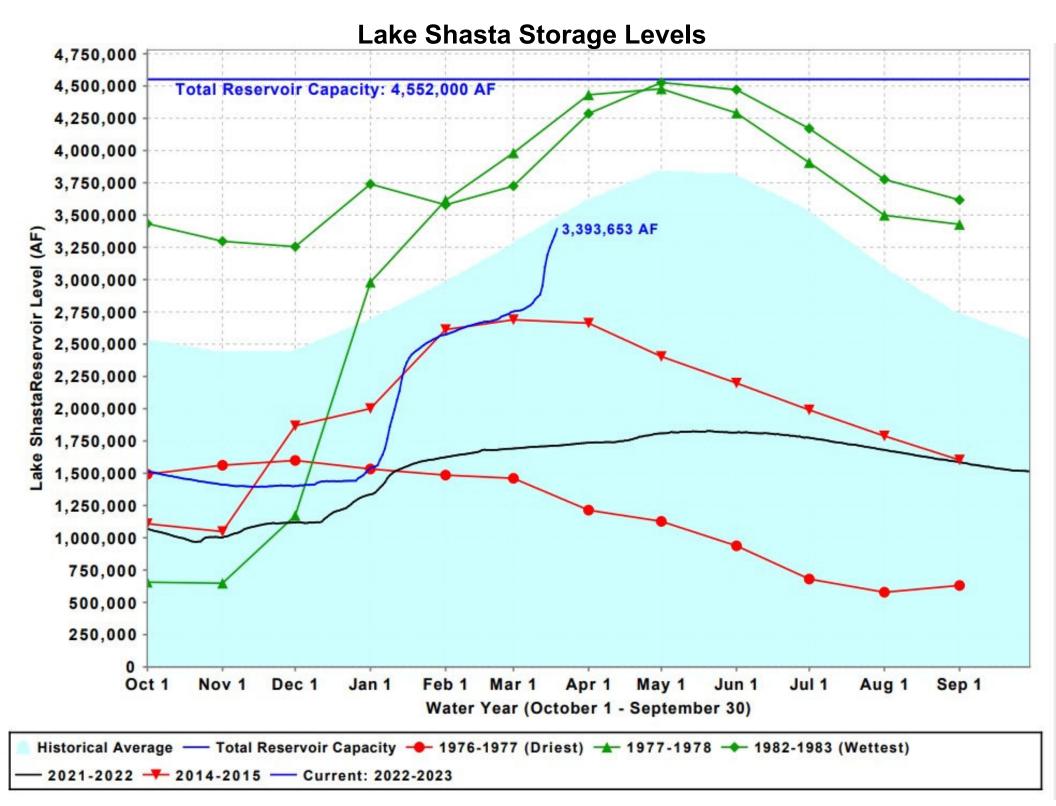
Northern Sierra 8-Station

Precipitation Index for Water Year 2023 - Updated on March 19, 2023 04:48 PM

Note: Monthly totals may not add up to seasonal total because of rounding
Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST





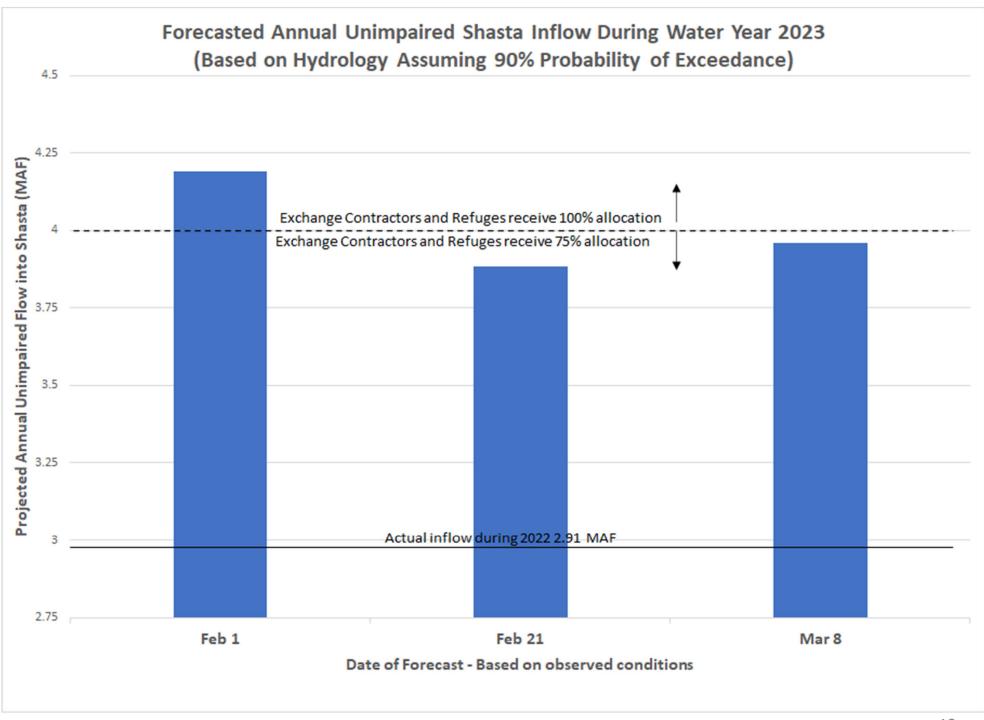


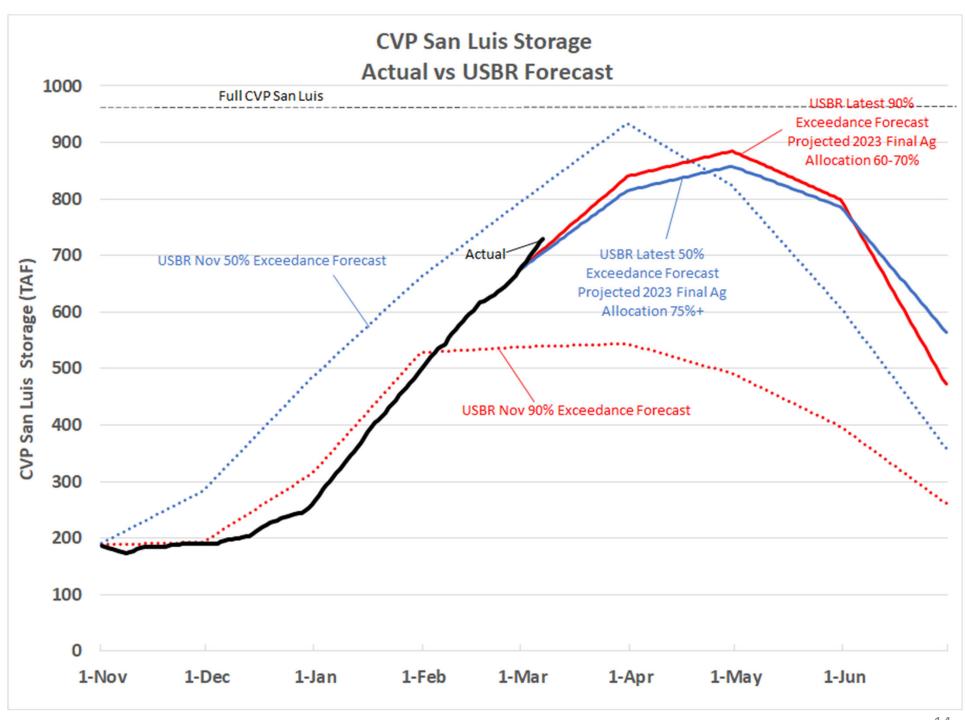
Reservoir Storage

(thousands of AF)

RESERVOIR	CAPACITY	15 YR Avg	WY 2022	WY 2023	% of 15 YR AVG
TRINITY	2,488	1,515	797	871	57
SHASTA	4,552	3,225	1,714	3,394	105
FOLSOM	977	556	534	624	112
NEW MELONES	2,420	1,434	951	1,311	91
FED. SAN LUIS	966	654	318	829	127
TOTAL NORTH CVP	11,363	7,384	4,314	7,029	95
MILLERTON	521	305	294	416	118
OROVILLE (SWP)	3,538	2,239	1,623	2,916	130







Total Budget

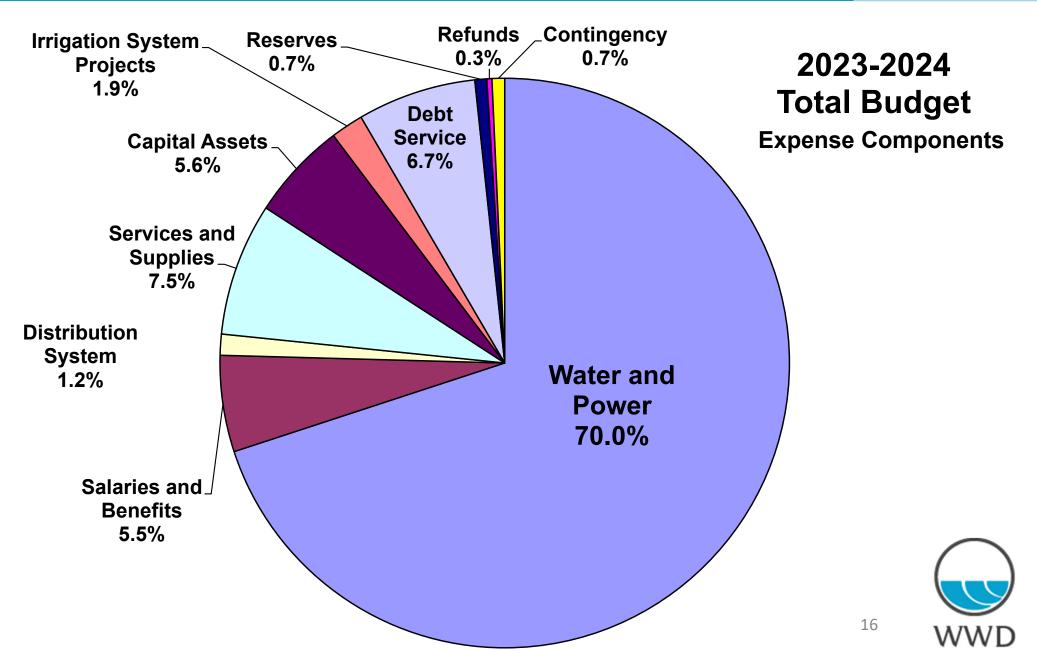
2019-2023 Water Contract Years

Total Budget



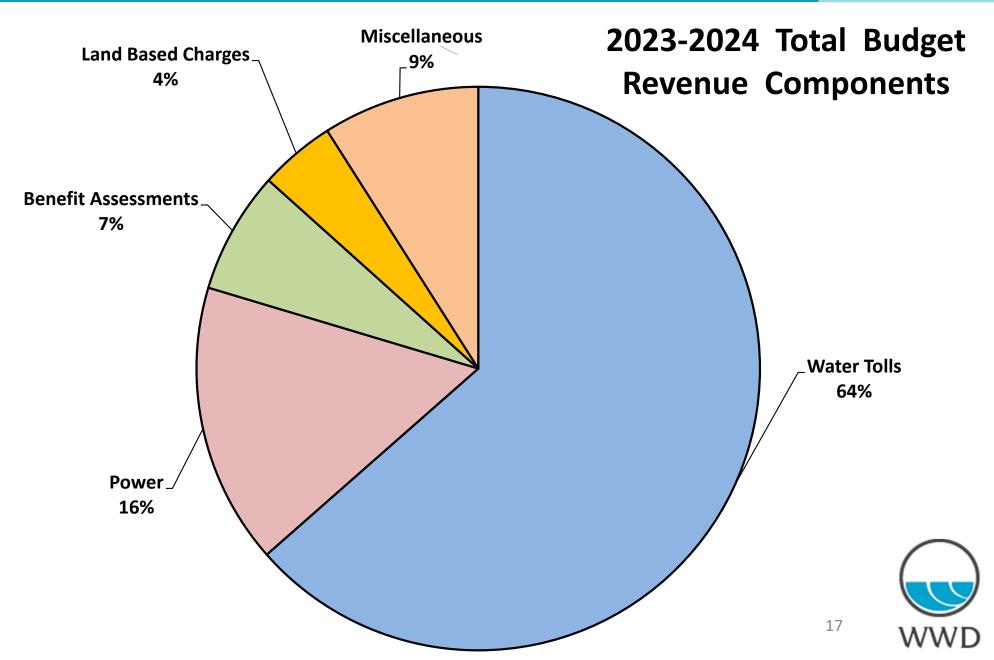
2023-2024 Total Budget

Expense Components

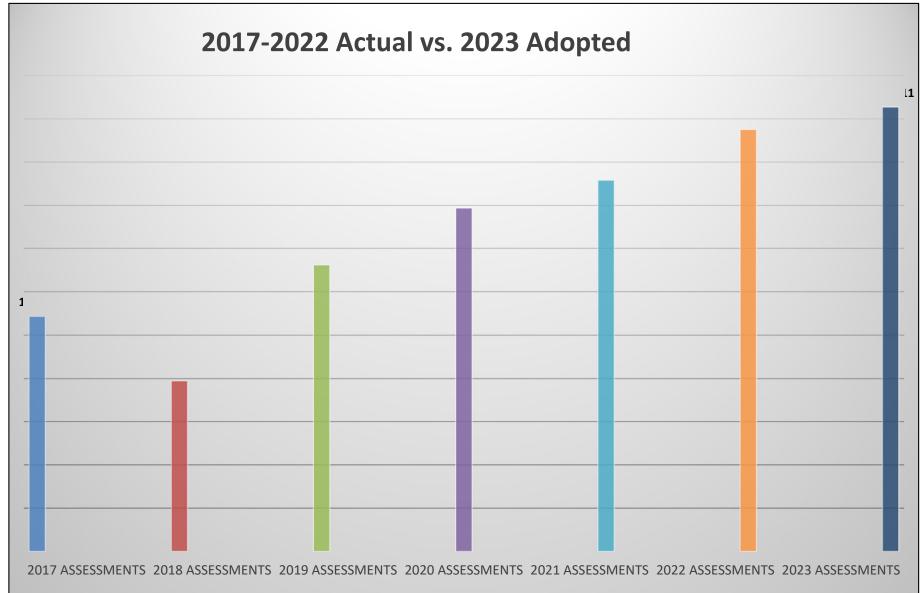


2023-2024 Total Budget

Revenue Components



Assessment Revenues



2023-2024 AG Water Rates

Per Acre-Foot

Agency	2023-2024 Cost of Service	2022-2023 Cost of Service	Variance
USBR	\$25.71	\$22.59	\$3.12
SLDMWA	\$50.64	\$101.39	(\$50.75)
WWD	\$40.50	\$131.61	(\$91.11)
USBR Capital Repayment Debt Service	\$10.36	\$31.68	(\$21.32)
Water Exchange Obligation	\$1.40	\$0.00	\$1.40
SWRCB Water Rights Fees	\$3.80	\$0.00	\$3.80
Water Rates	\$132.41	\$287.27	(\$154.86)

2023-2024 M&I Water Rates

Per Acre-Foot

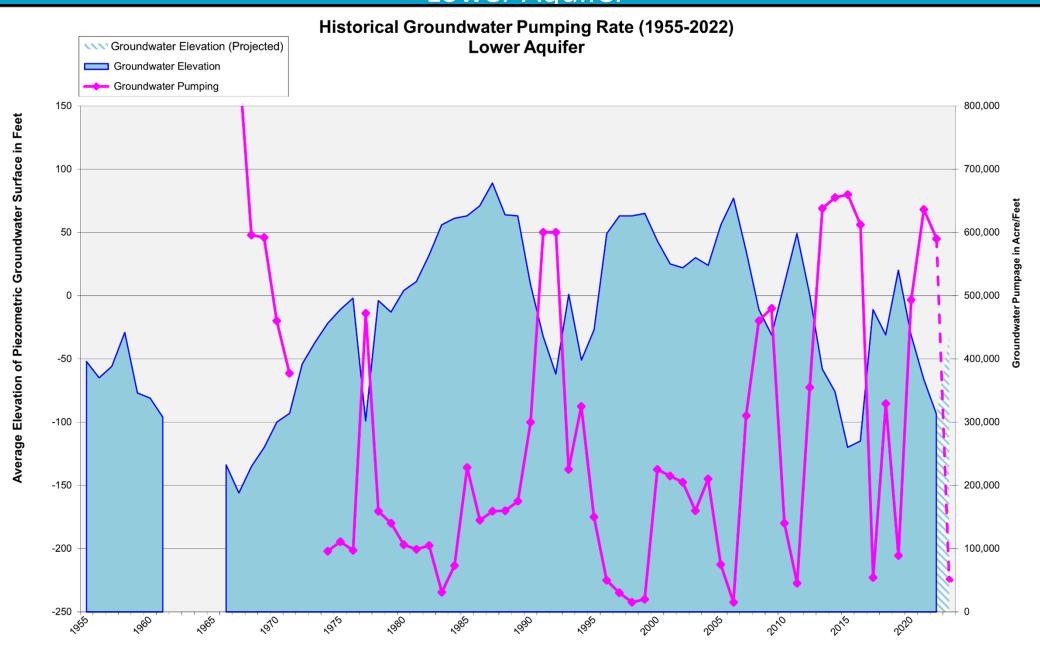
Agency	2023-2024 M & I Cost of Service	2022-2023 M & I Cost of Service	Variance
USBR	\$38.88	\$33.14	\$5.74
SLDMWA	\$50.64	\$101.39	(\$50.75)
WWD	\$81.08	\$259.47	(\$178.39)
USBR Capital Repayment Debt Service	\$10.36	\$31.68	(\$21.32)
SWRCB Water Rights Fees	\$3.02	\$2.82	\$0.20
Water Rates	\$183.98	\$428.5	(\$244.52)

Land-Based Charge Comparison

Agency	2023-2024	2022-2023	Variance
District Water Supply Debt Service - Area 1	\$4.22	\$4.18	\$0.04
District Water Supply Debt Service - Area 2	\$9.82	\$9.66	\$0.16
Extraordinary Repairs of Pipe	\$0.00	\$8.76	(\$8.76)
Drainage Service Area	\$0.00	\$0.00	\$0.00
WWQC	\$2.63	\$2.73	(\$0.10)
USBR Capital Repayment Debt Service	\$13.04	\$12.82	\$0.22
SGMA	\$2.99	\$2.25	\$0.74

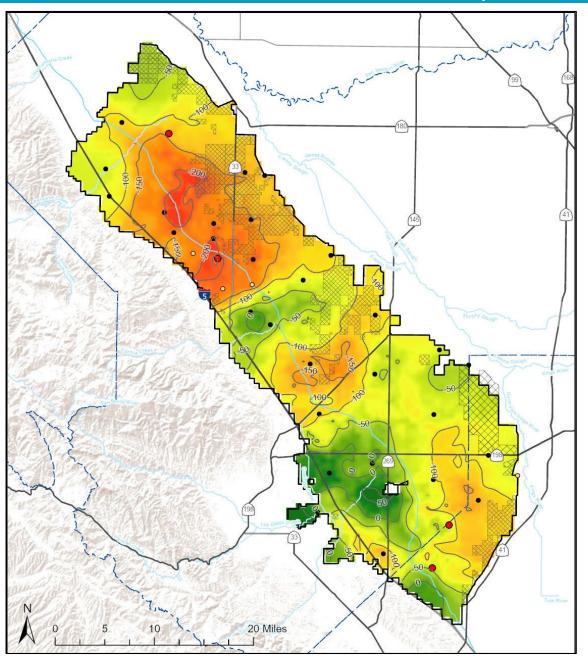
Groundwater Conditions since 1955

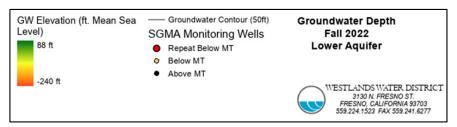
Lower Aquifer



Groundwater Elevation 2022

Lower Aquifer



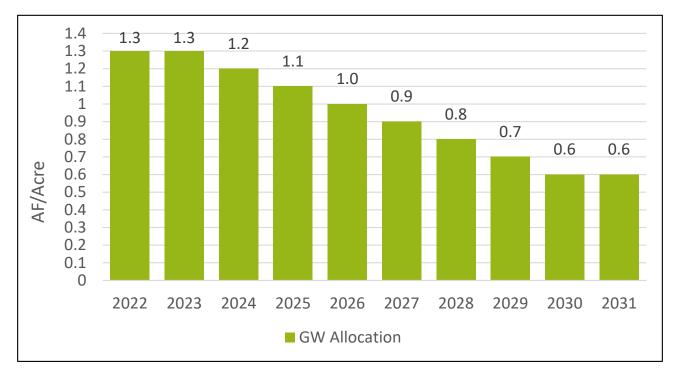




Groundwater Allocation and Transition Period

- Sustainable yield of 305,000 AF/year
- ~525,000 acres eligible receive allocation
- Starting 2022, 8-year "Transition Period"

1.3 AF/acre taper to 0.6 AF/acre allocation



^{*}Landowners with an outstanding Groundwater Allocation Application can submit the application no later than July 31, 2023.

Water Year	Allocation Cap
2022	1.3 AF per acre
2023	1.3 AF per acre
2024	1.2 AF per acre
2025	1.1 AF per acre
2026	1.0 AF per acre
2027	0.9 AF per acre
2028	0.8 AF per acre
2029	0.7 AF per acre
2030	0.6 AF per acre

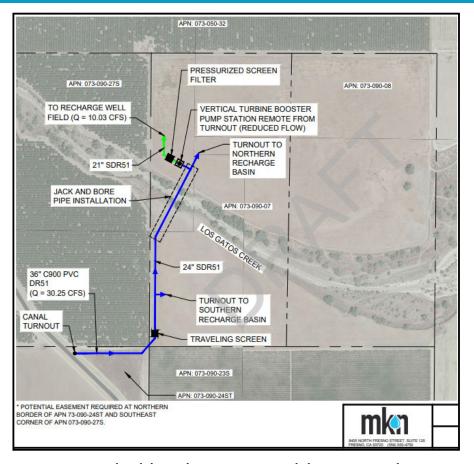
Grant Funded Meters

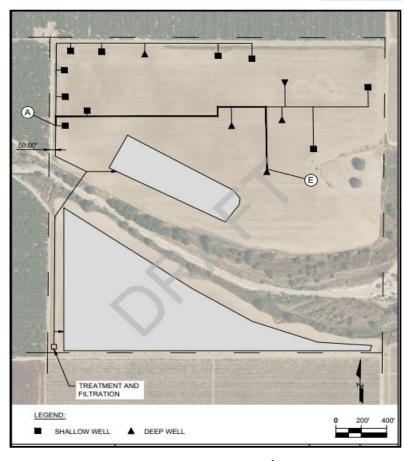
- WaterSMART Grant award of \$1.16M for 572 Meters and Advanced Meter Infrastructure (AMI)
 - Invoices were sent to Growers for Non-GWMP Wells
 - Grower cost up to \$2,700 per meter
- Grant funded meters available for Non-GWMP wells
 - WaterSMART Funded
 - Prop 68 Sustainable Groundwater Management Grant
 Program through DWR
 - Subject to grant terms and conditions





Pasajero Recharge Project

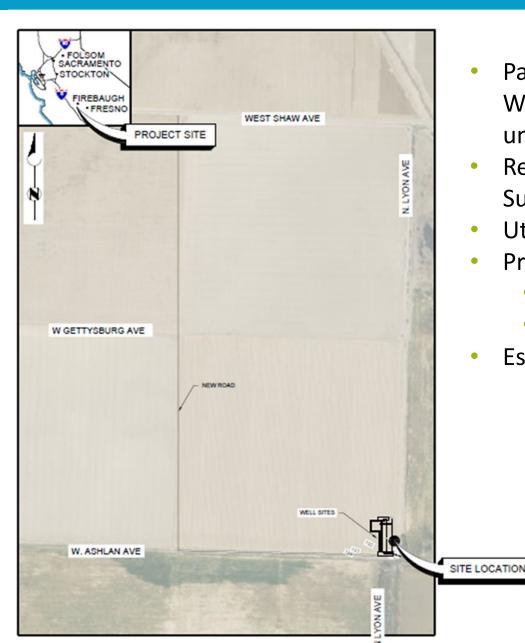




- Funded by the Sustainable Groundwater Management Grant Program under Prop 68
- Total recharge capacity of up to 10,800 AFY into the Westside Subbasin
- Phase 1: turnout, traveling screen, percolation basins, transmission pipeline
 - Project status: 100% design phase
 - Estimated completion date: April 2024
- Phase 2: pump station, pressurized filtration system, recharge wells
 - Project status and estimated completion date: TBD



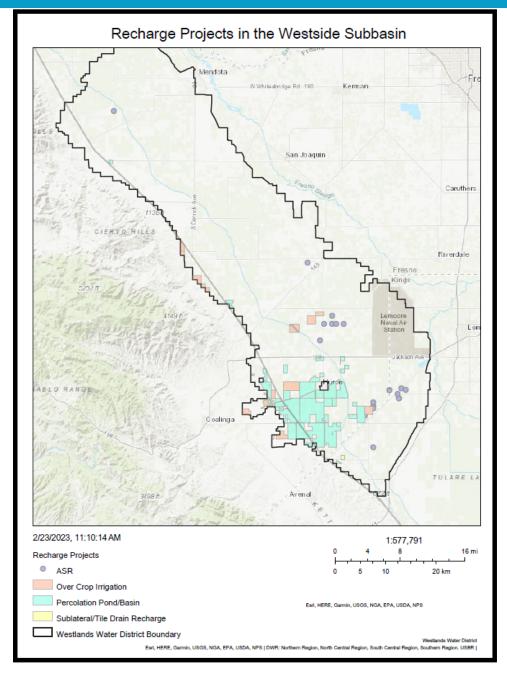
Broadview ASR Project



- Partially funded by the Integrated Regional Water Management Grant Program under Proposition 1
- Recharge up to 1,200 AFY into the Westside Subbasin
- Utilizes one ASR well; recharge only
- Project status:
 - ASR Well Drilling: In construction.
 - Above-ground: 90% design phase
- Estimated completion date: January 2024



Recharge Potential

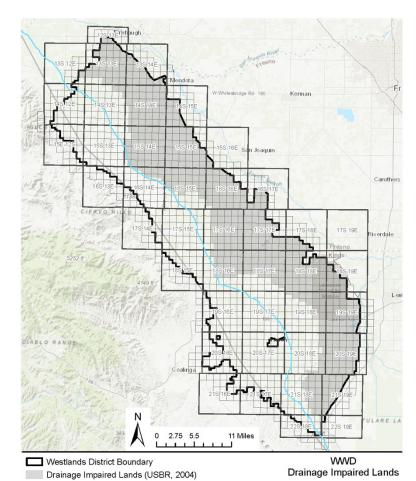


- Approved Recharge Projects within
 Westlands Water District = 54
 - Twenty-Five (25) Aquifer Storage and Recovery Projects
 - Fourteen (14) Percolation Basins
 - Two (2) Sub-Lateral/Tile Drain Projects
 - Thirteen (13) Over-Irrigation Projects
- Potential Recharge Capacity = 3,300AF/Day
- Groundwater Credit Application
 - Turnaround time = Two Three Weeks
- Expedited 2023 Application available online
 - 13 Applications have been submitted

2023 Recharge Applications

- The Board of Directors approved an expedited, single-page <u>2023 Recharge Program Application</u> to take advantage of Section 215 water and/or flood flows
- Applications outside Drainage Impaired Lands are automatically approved upon submittal.
- Submission of an application does <u>not</u> obligate the water user to perform recharge and does <u>not</u> make them financially responsible for taking water

All water users are encouraged to apply.





Groundwater Sustainability Plan Update

DocuSign Envelope ID: 7CCBB370-A92E-4EA8-B94A-2D618ACA5C94



March 2, 2023

Kiti Campbell Westlands Water District GSA P.O. Box 6056 Fresno, CA 93703 559-241-6226 kcampbell@westlandswater.org

RE: Westside Subbasin - Response to 2022 Incomplete Determinations

Dear Kiti Cambell

The Department of Water Resources (Department) appreciates the resubmission of your groundwater sustainability plan (GSP or Plan) for evaluation and assessment, after and in response to the Department's January 2022 Incomplete Determination, consistent with the GSP Regulations under the Sustainable Groundwater Management Act (SGMA). This letter provides an update on the Department's evaluation and assessment of the revised and resubmitted Plan.

Department staff have substantially completed a review of the Plan covering the Subbasin. Department staff have indicated that they believe the GSAs have taken sufficient actions to address the previously identified deficiencies that precluded initial approval of the Plan, and that staff anticipate recommending approval of the Plan. However, Department staff are developing recommended corrective actions to further assist the GSA with implementation of the Plan and achieving basin sustainability goals. The final assessment will be provided to you and posted to the SGMA Portal as soon as practicable. In addition to fully documenting how the deficiencies that initially precluded approval were sufficiently addressed, the assessment will provide the GSAs with Recommended Corrective Actions the Department would like to see the Subbasin address in the upcoming Periodic Update by January 2025.

Additionally, the Subbasin should continue making progress towards its sustainability goal, including ongoing outreach to the beneficial uses and users in the subbasin, carrying out projects and management actions, filling data gaps, and providing timely information to the Department through your annual report submittals by April 1.

If you have any questions, please do not hesitate to contact the Sustainable Groundwater Management Office by emailing sgmps@water.ca.gov.

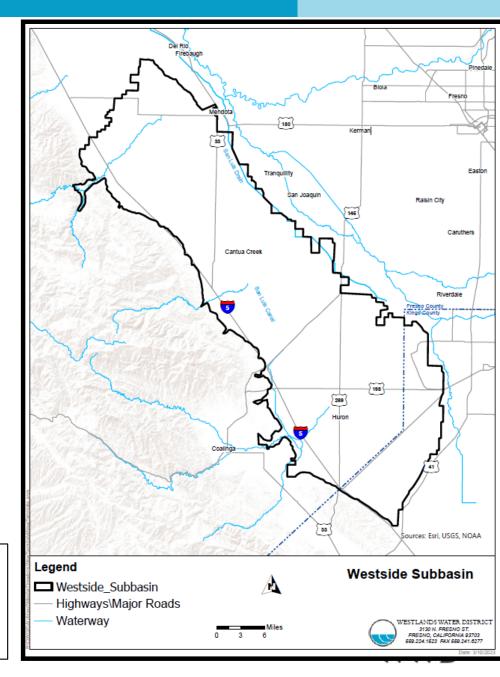
Thank you,

Paul Gosselin

Deputy Director of Sustainable Groundwater Management

STATE OF CALIFORNIA | GAVIN NEWSOM, GOVERNOR | CALIFORNIA NATURAL RESOURCES AGENCY

- The District was one of six (6) critically over drafted Subbasins that the DWR recommended for approval.
- The District is expecting the official approval letter in April 2023.



Water Quality Coalition

- Submission Deadlines
 - Nitrogen report was Due March 1, 2023
 - Annual Member Outreach is Due July 31, 2023
- Common contributors of discharging into the Arroyo Pasajero, Cantua Creek or Panoche-Silver Creek
 - Pesticide application drift and/or runoff
 - Irrigation tailwater runoff
 - Irrigation system breaks or malfunctions





Water Quality Coalition

- Discharge to Groundwater Wells
 - Discharge of <u>any</u> kind into groundwater wells is strictly prohibited
 - This includes filter station backflush water, motor cooling water, or any other discharges
- Proper Wellhead Maintenance
 - All district wells must be properly maintained to prevent inflow of water, chemicals, sediment, etc.
 - Abandoned wells must be covered to prevent water from entering, while still allowing District staff to gather groundwater readings.

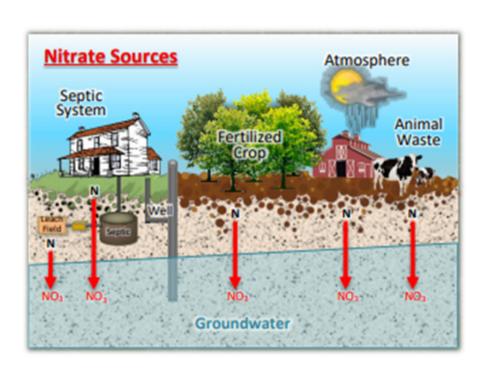






Drinking Water Wells & Groundwater Protection Program

- Domestic Well Testing
 - Coalition Members who have domestic wells are required to test wells for nitrate and submit results to the Regional Board



- GW Protection Program
 - Calculates Irrigated Agriculture's impact on drinking water quality and establishes Targets to mitigate nitrogen loading.
 - GW Targets have been submitted to Regional Board for each Township throughout the Central Valley. Targets are expected to be approved this year







January Storms



- Overall, District Facilities Sustained Minor Damage
- There Are Several Creeks That Flow Into The District
- The Panoche Creek Alone Crosses <u>12</u> District Pipelines
- The Damage We Sustained Was...
 - 15" AC Pipe On 22R Washed Out By The Arroyo Pasajero Creek
 - A Section Of The 15R Mainline Was Exposed
 - Minor Flooding Of The 28R-A Pumping Plant

Creek Crossing at 1R-7.0 Mainline Video





Creek Crossing at 2R-4.7 Mainline Video





15R Mainline Exposed





USA Requests



- Call or click 811 before you dig
 - This is a Toll-Free call
- Mark your excavation area with white paint
- Allow two working days for all utilities to mark their facilities
- If you are unsure about any marking, call the utility

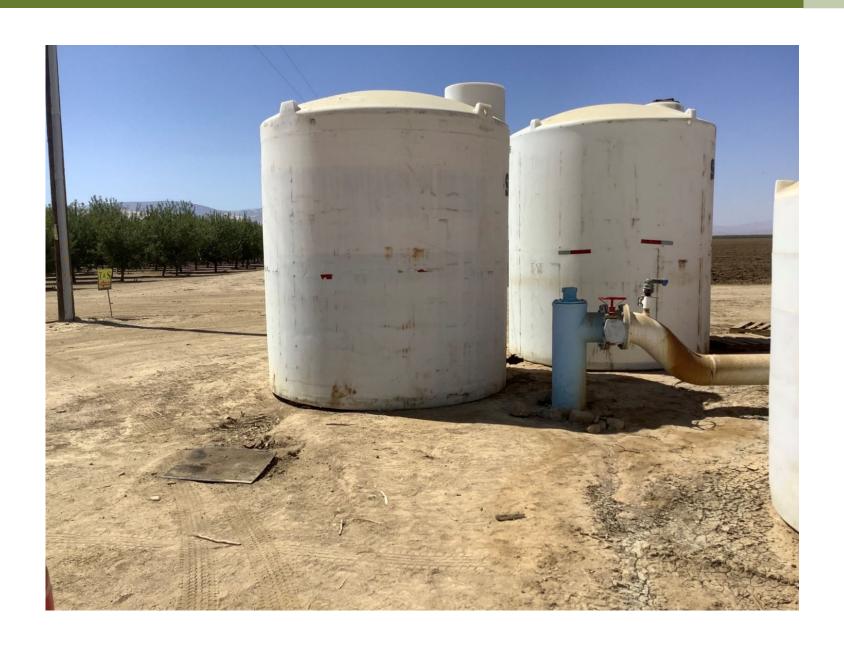
Equipment and Concrete Pads Near Facilities





Temporary Equipment





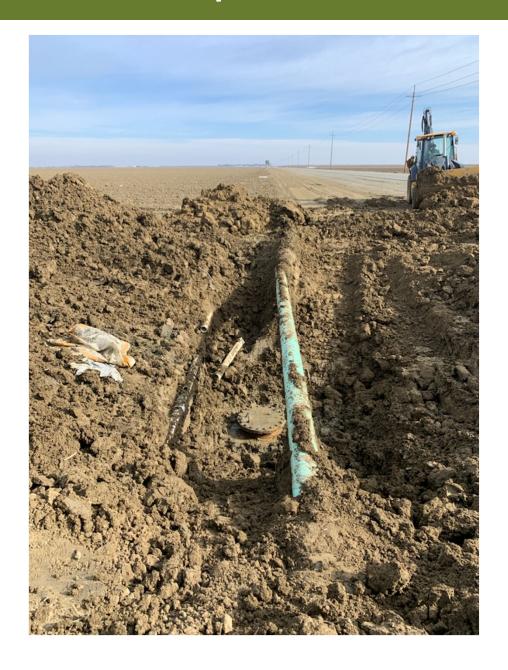
WWD Facility Awareness





Water User Pipeline Conflicts





Ongoing Distribution System Maintenance



- District Staff is responsible for the maintenance and repair of...
 - All Water Meters (3,000+)
 - Various Valves Subline, Division, Ground, Air Release,
 Etc. (3,400+)
 - 377 Pumps and Motors
 - 66 Traveling Water Screens
 - 94 Pumping Plants
 - 45 Air Chamber Tanks and Compressors
 - 16 Reservoirs and 39 Regulating Tanks
 - Over 1,000 Miles of Pipeline

Traveling Water Screens







Damaged Screens





Ground Valve Repairs







24" RPM Pipe Failure on the 1R Mainline





Pipe Repairs // 30" RPM on Lateral 33L





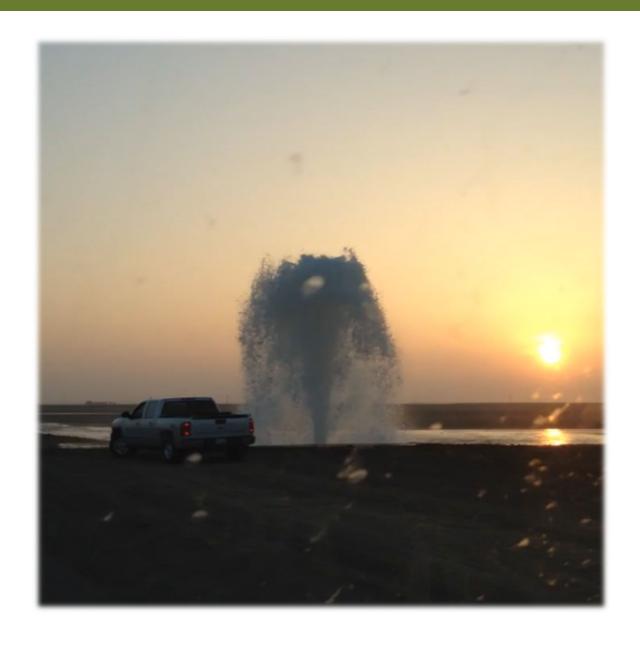
39" PT Pipe Failure on 7R





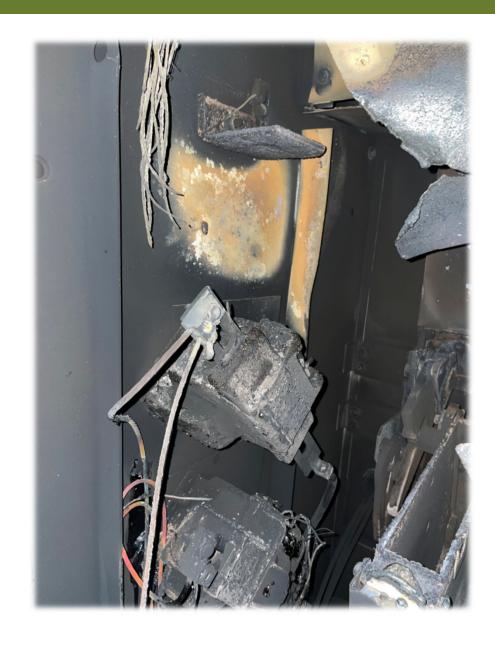
The Occasional Meter Damage

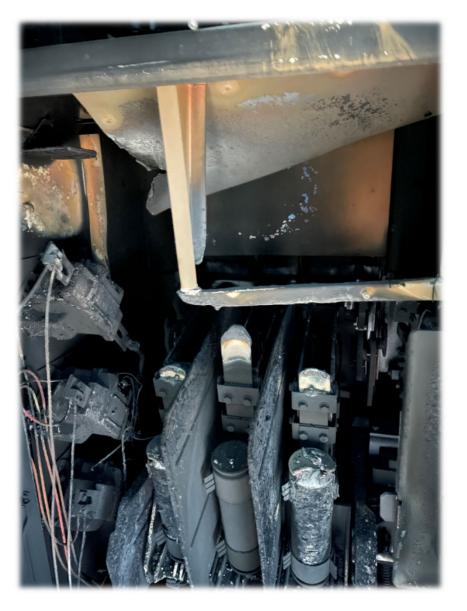




Motor Control Center Equipment







Pump Motors





- This motor suffered damage from overheating due to a contactor failure.
- The cost was over \$20K in repairs...
 Just for the motor!
- There were an additional \$20K+ in repairs to the motor control center equipment in the previous slide 1#

Quinquennial Shutdown Schedule



- Each Lateral or Pumping Plant is on a 5-Year Schedule
- It is Included in the February Notice To Water Users
 - Notice is also available on the District website
- Please review this schedule
- District staff invests numerous hours developing this schedule
- Shutdowns involve other agencies and municipalities
 - Department of Water Resources
 - PG&E
- If there are conflicts, notify District staff ASAP
- Staff will do their best to accommodate Water Users

The 5-Year Scheduled Shutdowns Allows for...



- Silt removal from tanks
- "Deep Dive" Inspection of facilities while drained
- Completion of deferred work to minimize interruptions of water deliveries
- Scheduling of large and / or complex work



Groundwater Well Metering Project



- District staff is finalizing the installation of <u>District</u> owned meters on ground wells
- Your cooperation & coordination is essential
- Staff has contacted well owners that still need to modify their well discharge.
- Three diameters of straight run upstream and two diameters downstream of the meter with NO upstream connections

Groundwater Well Meters



- Wiring is for District AMI connections
- There is a 4-20ma output available

PLEASE, PLEASE...
do not modify

Call District Staff if you would like access



Groundwater Well Meters



Rubber Covers on Meter Register provide impact resistance and UV protection for the digital display.

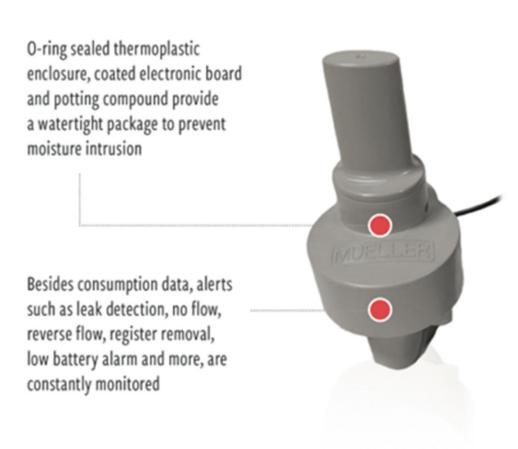




Automated Meter Infrastructure (AMI)



- AMI work has begun for all ground wells
- These data collectors or "Nodes" will be installed soon
- Data will be available to water users



O&M DIVISION

THANK YOU!



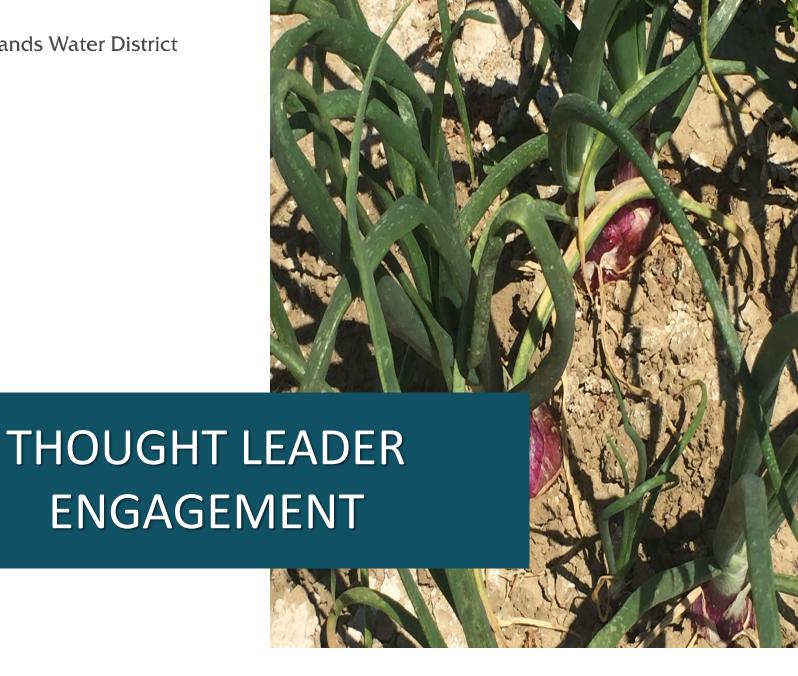




Public Affairs: 2022 Summary of Activities





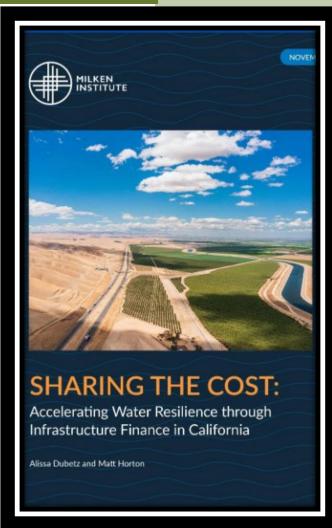


The Milken Institute-Policy Accelerator



Sharing the Cost: Accelerating Water Resilience through Infrastructure Finance in California

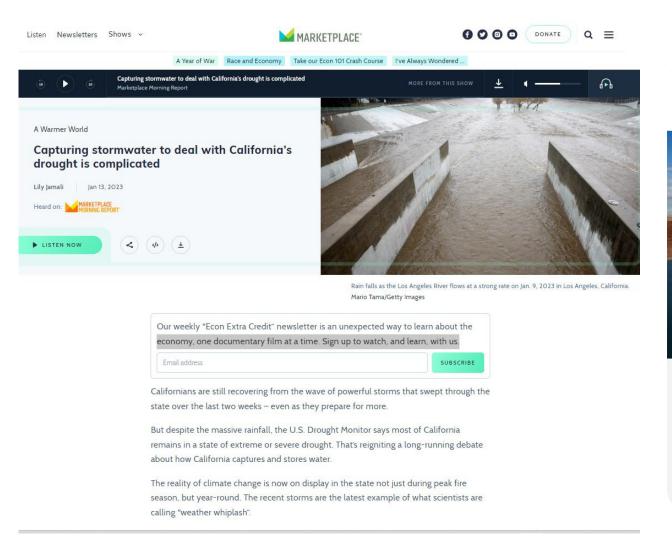
- Report released November 2022
- Identifies Federal, State and Local Policy Barriers
- Proposes 3 solutions:
 - Establish a Centralized Agricultural Water Infrastructure Center for Excellence
 - Create New Credit-0Enhancement Tools and Adjust or Expand Existing Programs to Increase Project Funding
 - Create a Development Project Delivery Ecosystem More Welcoming to Public-Private Partnerships

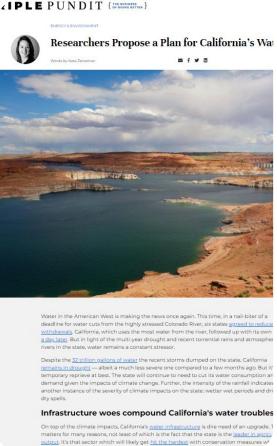


milkeninstitute.org/report/water-resilience-california-finance-infrastructurg?

Media Coverage







Additional Thought Leader Engagement



- Participated in Columbia Water Center's 2022
 Rethinking Water conference
 - Delivered presentation titled, "Drought in the West: The Failure of Agriculture?"
- RAND Report: Growing Toward a Low-Carbon Future
- Hosted introductory meetings with several think tanks to explore opportunities for Westlands to engage with thought leaders in the water, food security and climate resiliency spaces



Keynote Speakers



Cartwright, Deputy General
 er – External Affairs, Westlands
 istrict



Seth M. Siegel, Serial Entrepreneur, Water Activist, and New York Times Bestselling Author





Media

- Media Inquires
 - National, International, Spanish
- Press Releases
- Interviews
- Op-Eds



Social Media



Instagram

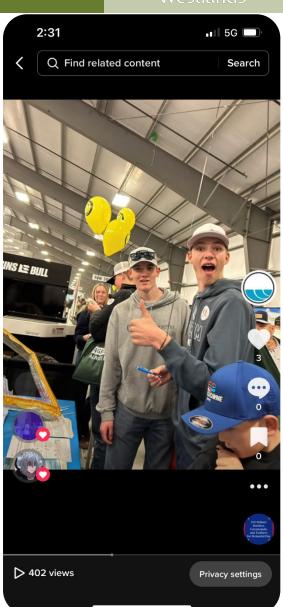
Facebook

Twitter

LinkedIn

YouTube

Tiktok



Communications

- Water User Calls
- Notices
- Project Operations Updates
- Collateral Development
- Branding
- Website
 - Update in 2023



Community Outreach





Tours



Presentations



Scholarships



Interns



Food Distributions



Collaboration





