

# Water and Recycled Water Update

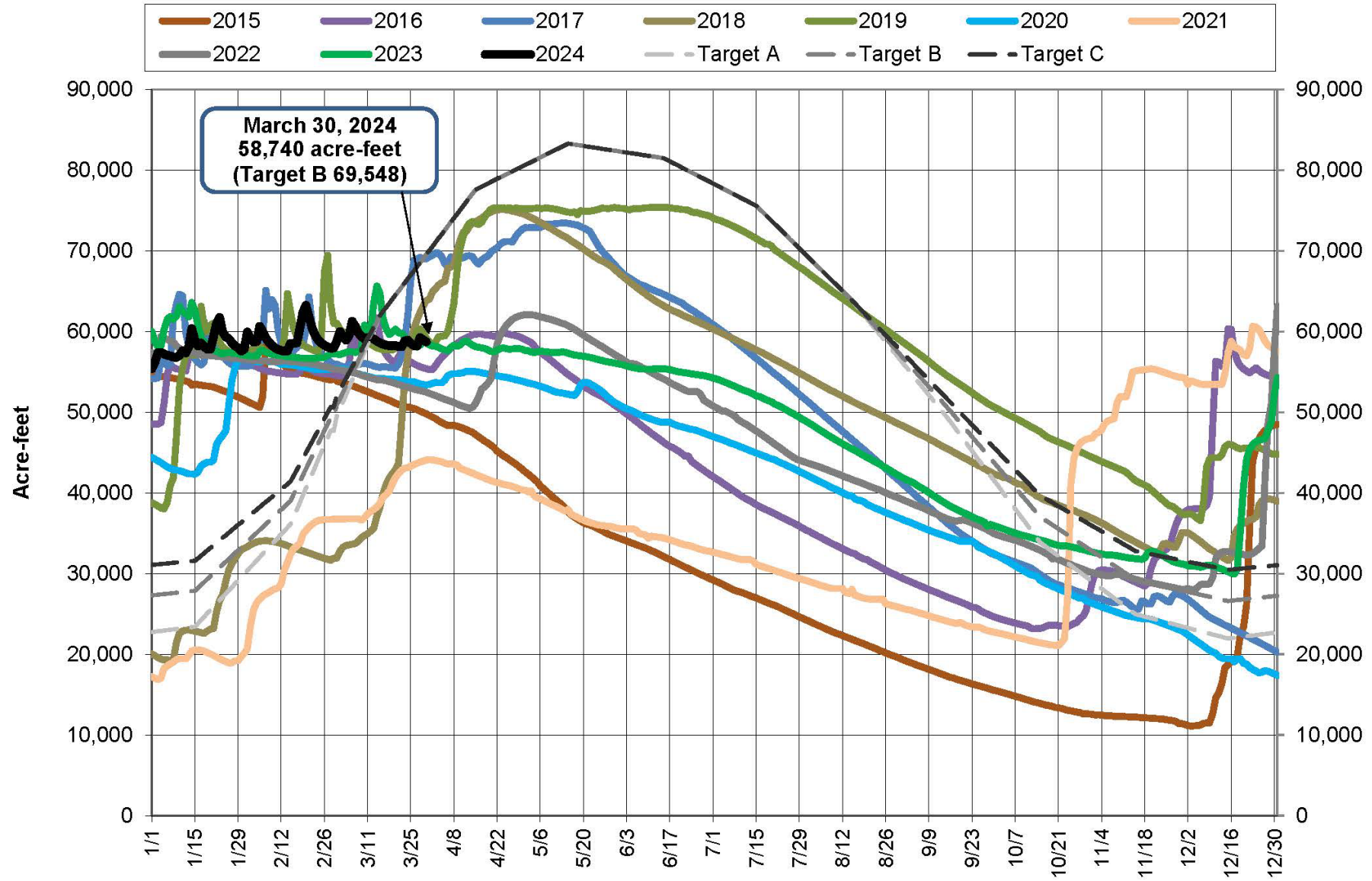
Board of Public Utilities Meeting

April 4, 2024

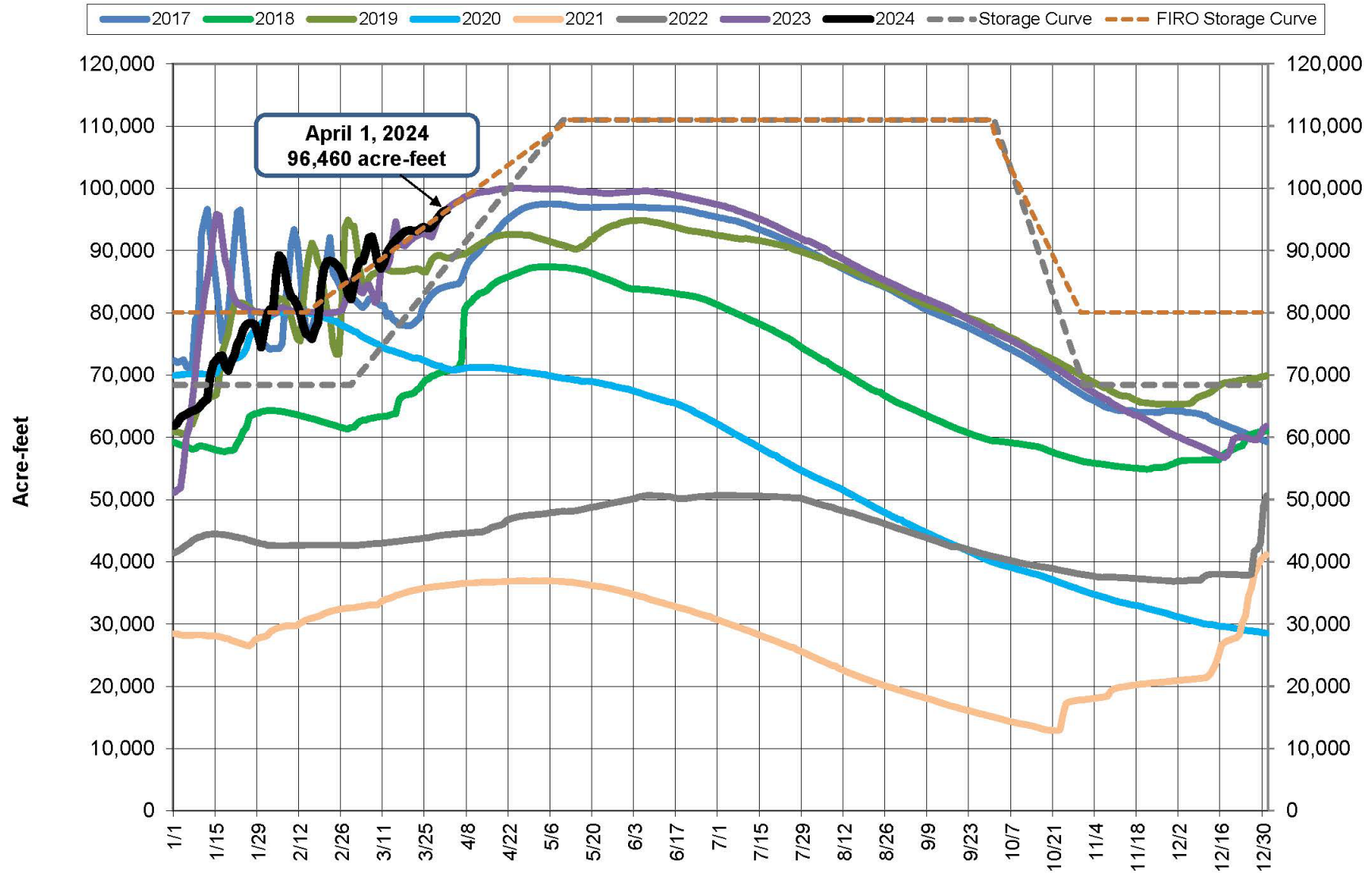
Peter Martin – Deputy Director, Water Resources

Mike Prinz – Deputy Director, Water Reuse

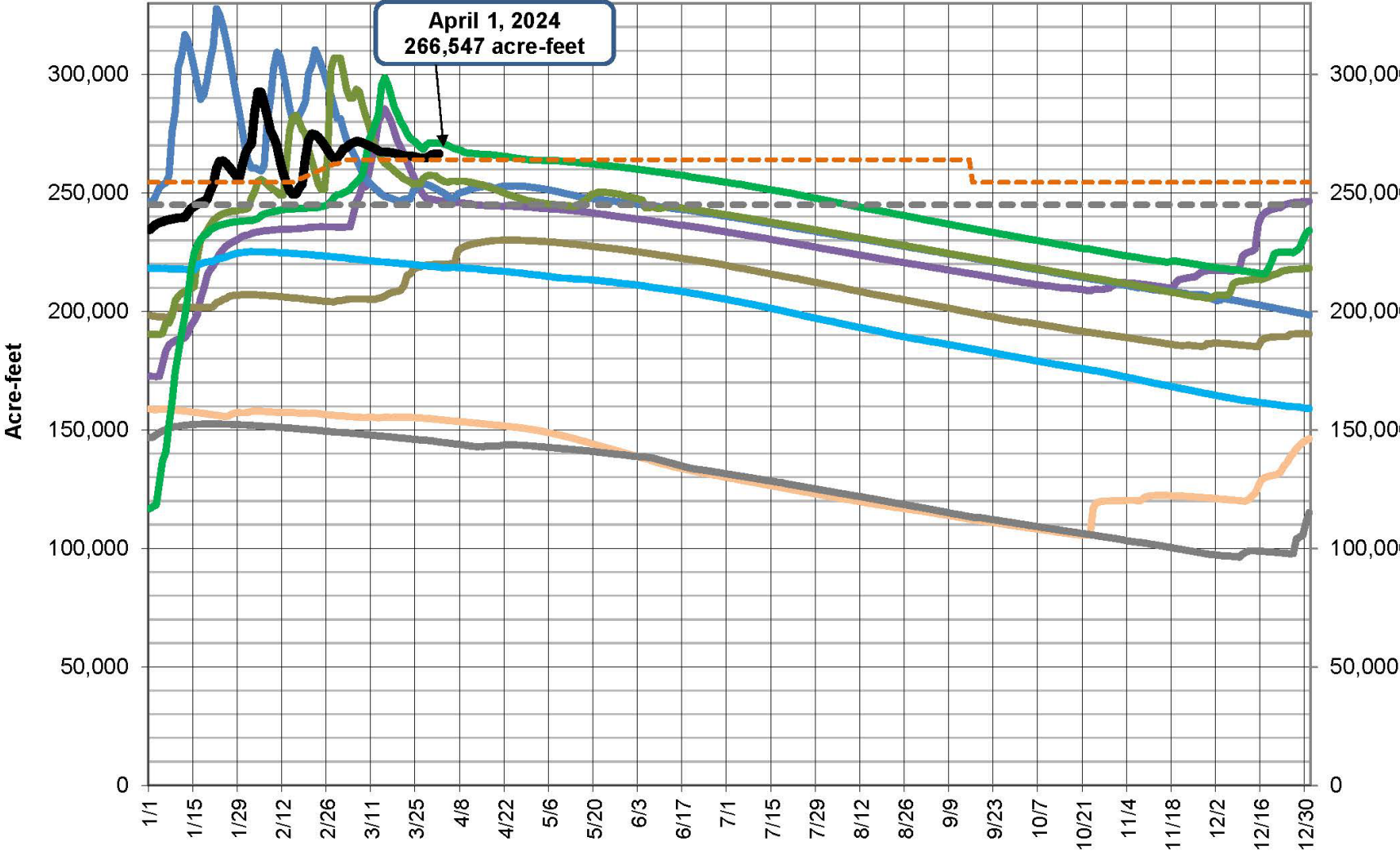
# Lake Pillsbury Storage and Target Storage Scenarios



# Lake Mendocino Storage



# Lake Sonoma Storage

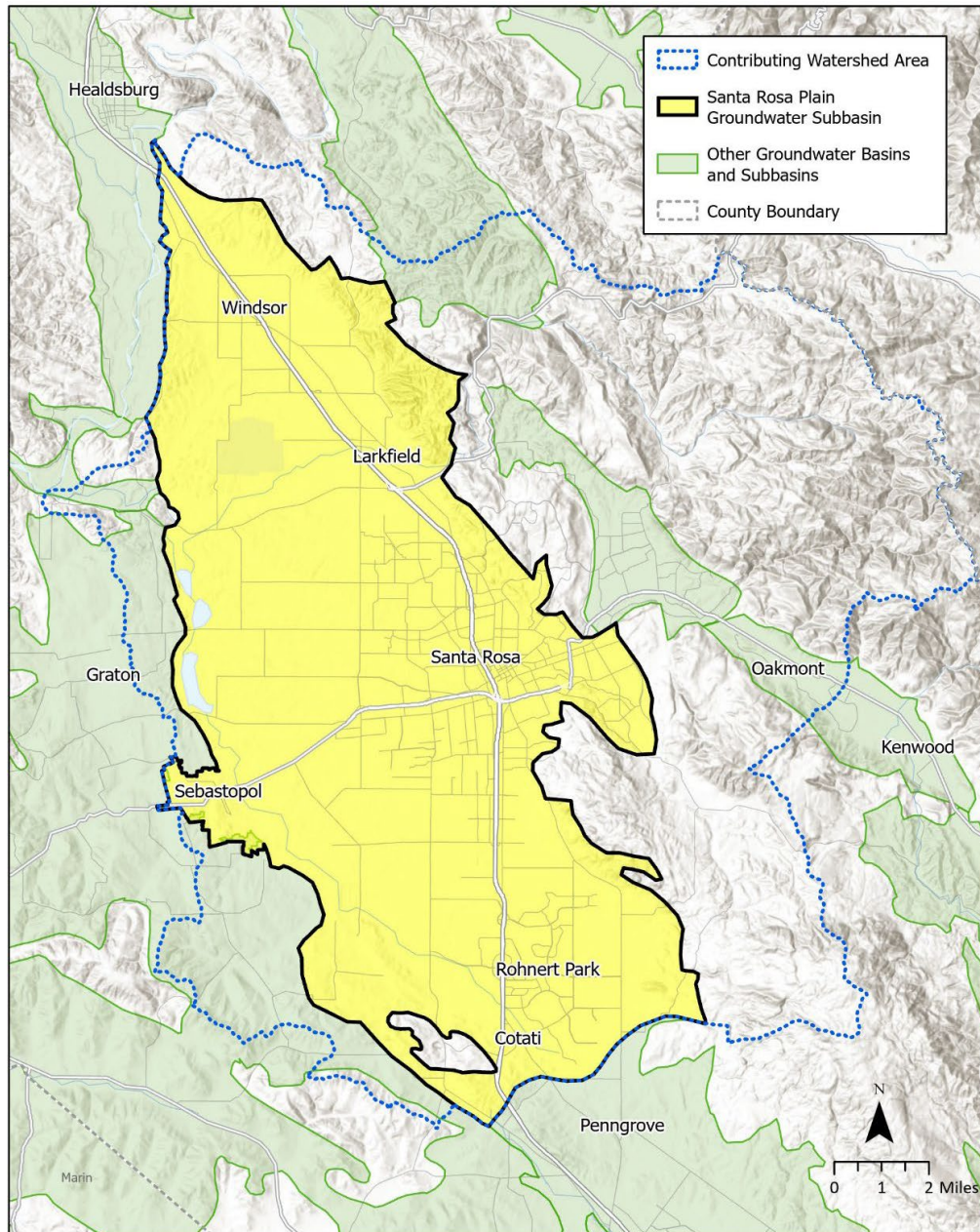




# Santa Rosa Plain GSA

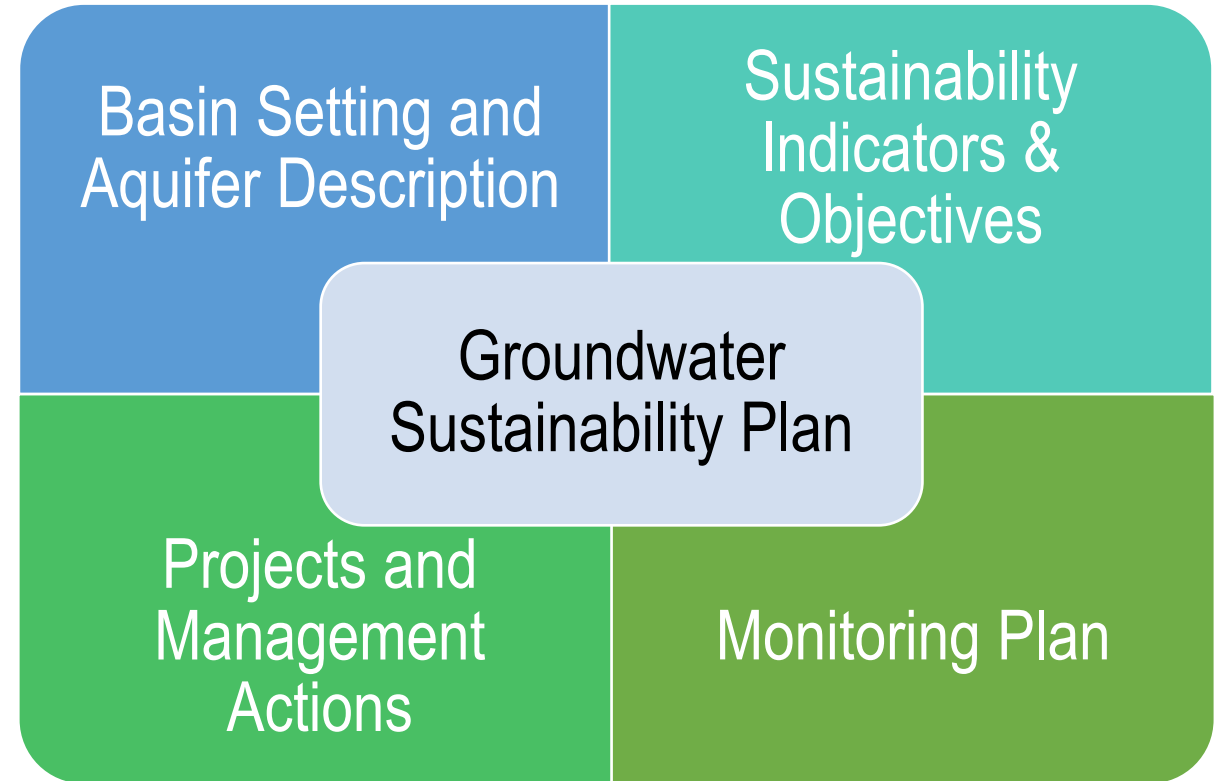
## Basin Information

- Approximately 80,000 Acres or 125 square miles
- Supplies in Basin:
  - 35% groundwater
  - 45% surface water (imported)
  - 20% recycled water
- Groundwater Use in Basin:
  - 50% rural domestic
  - 32% agriculture
  - 18% municipal



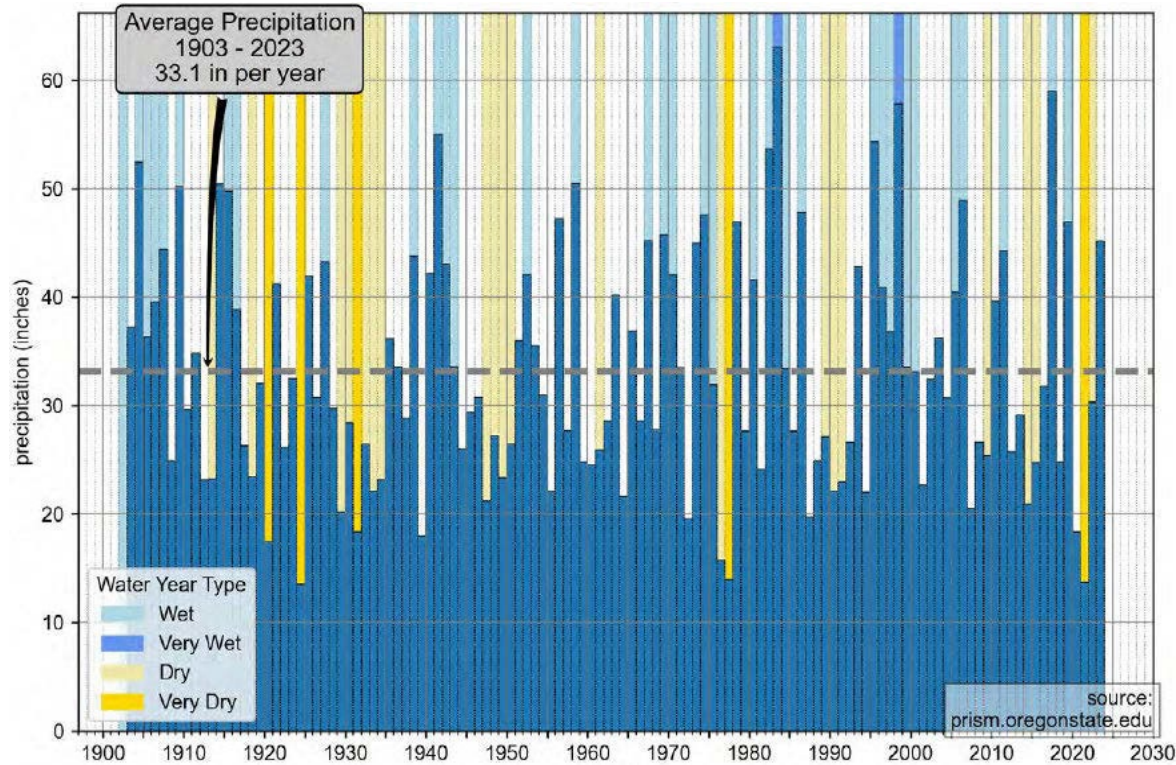
# Groundwater Sustainability Plan adopted in 2022

- The Agency is now focused on implementation of GSP
  - Must achieve sustainability in 20 years
  - Received \$5.6 M dollars in grant funding in 2023 for implementation
  - Budget – \$765,000 per year
  - Extraction Fee - \$40 per A/F
- By law, must submit an annual report to the State regarding progress in the water year
  - Basin Conditions and Status of Sustainability Indicators





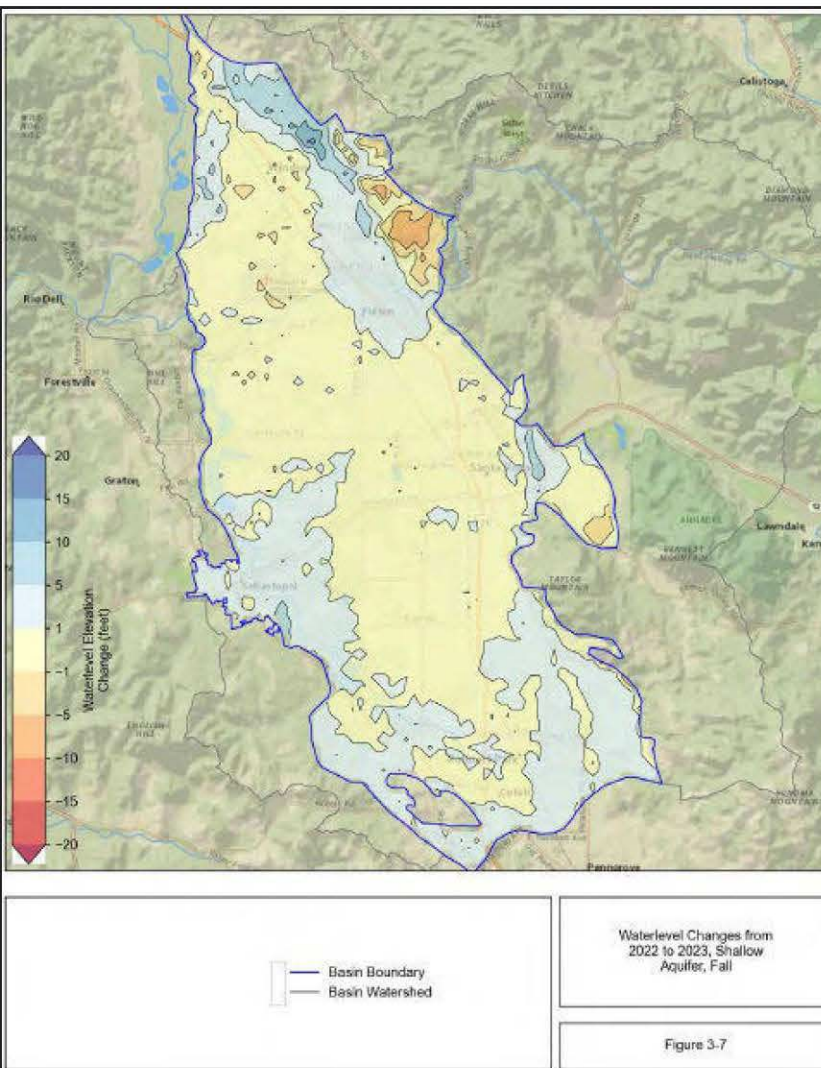
# Annual Report Water Year 2023 (Oct 22 – Sept 23)



- First year of above average rainfall following three consecutive year of below average rainfall
- 45.2 inches of rain compared with long term average of 33.1



# Groundwater-Level Changes between WY 2022 and WY 2023



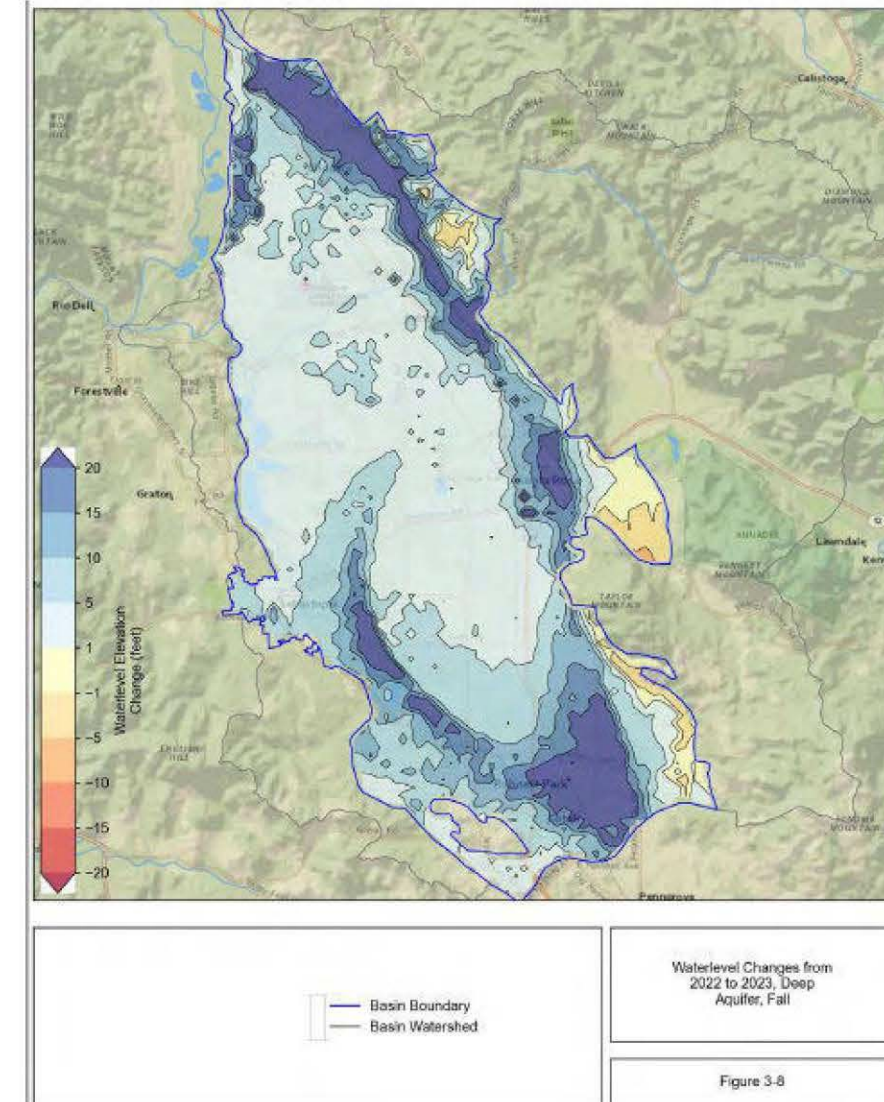
Groundwater-levels similar or higher in WY 2023 compared with WY 2022 throughout much of the Subbasin in the both aquifer systems.

## Shallow aquifer system

- Increases of up to about 5 feet over many areas, primarily near margins of Subbasin.

## Deep aquifer system

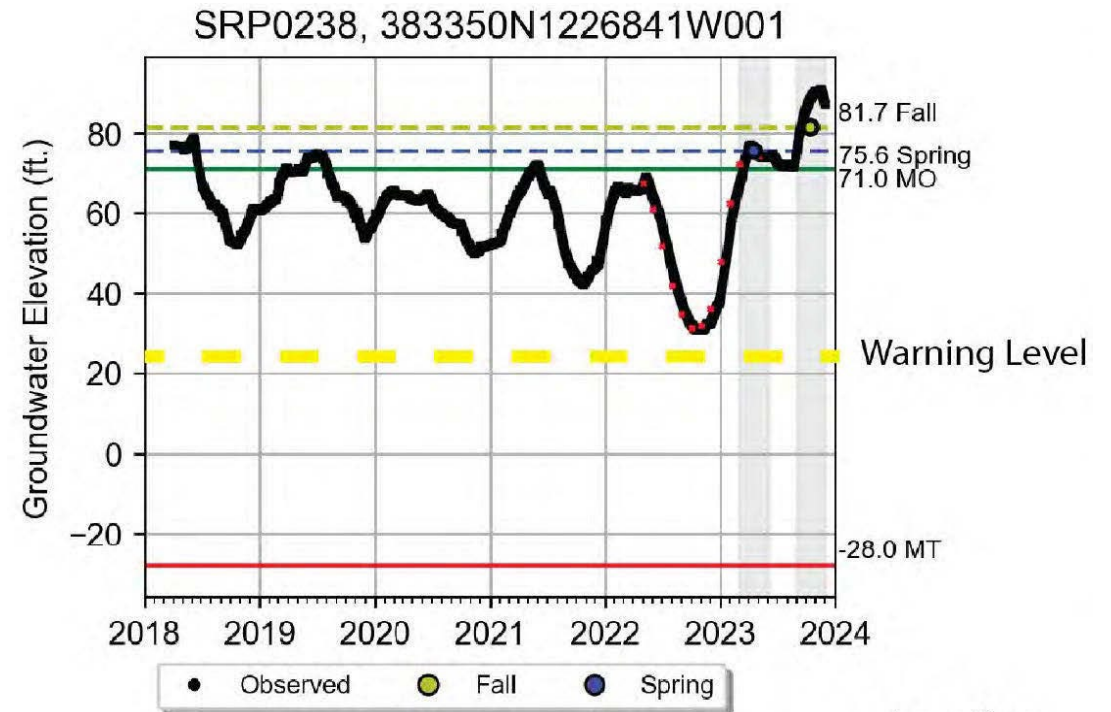
- Increases exceeding 20 feet occur in the southern and southwestern portions of the Subbasin in the vicinity of Rohnert Park and along the Laguna de Santa Rosa between Cotati and Sebastopol, and along the eastern edge of the Subbasin, from Santa Rosa to north of the Town of Windsor.



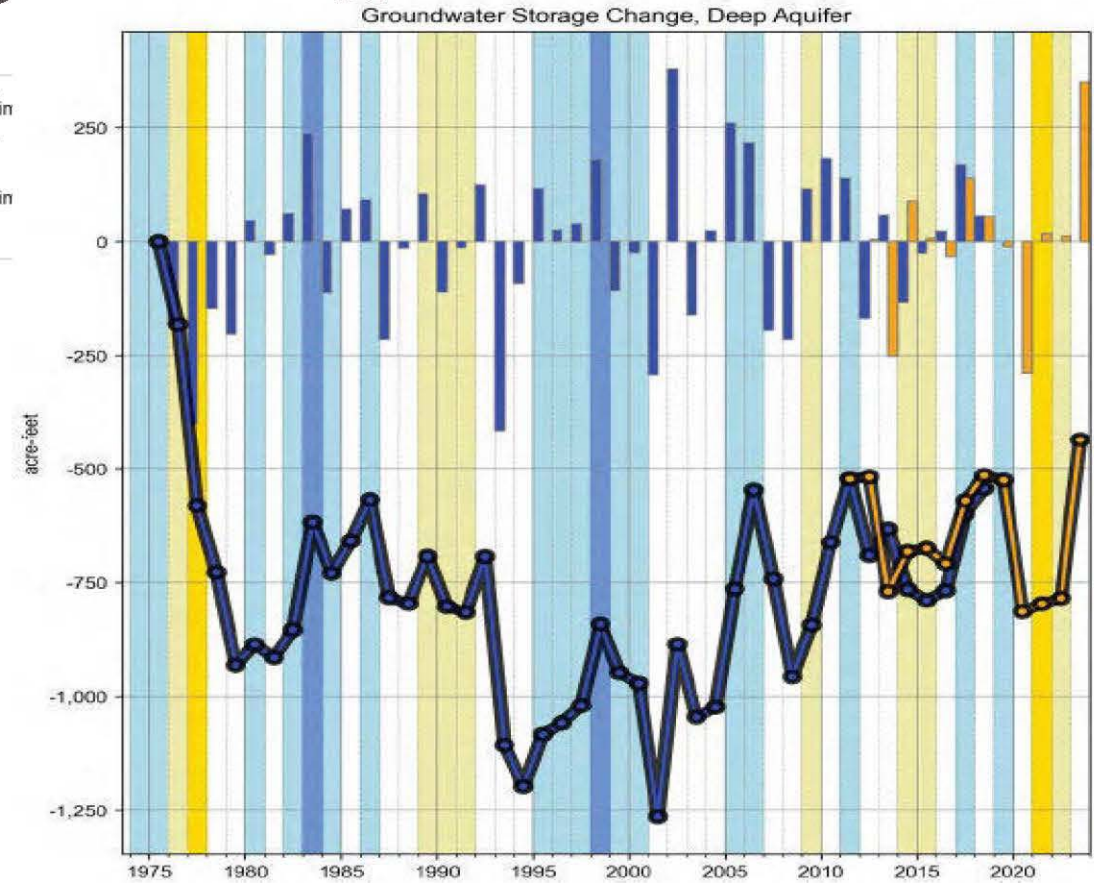
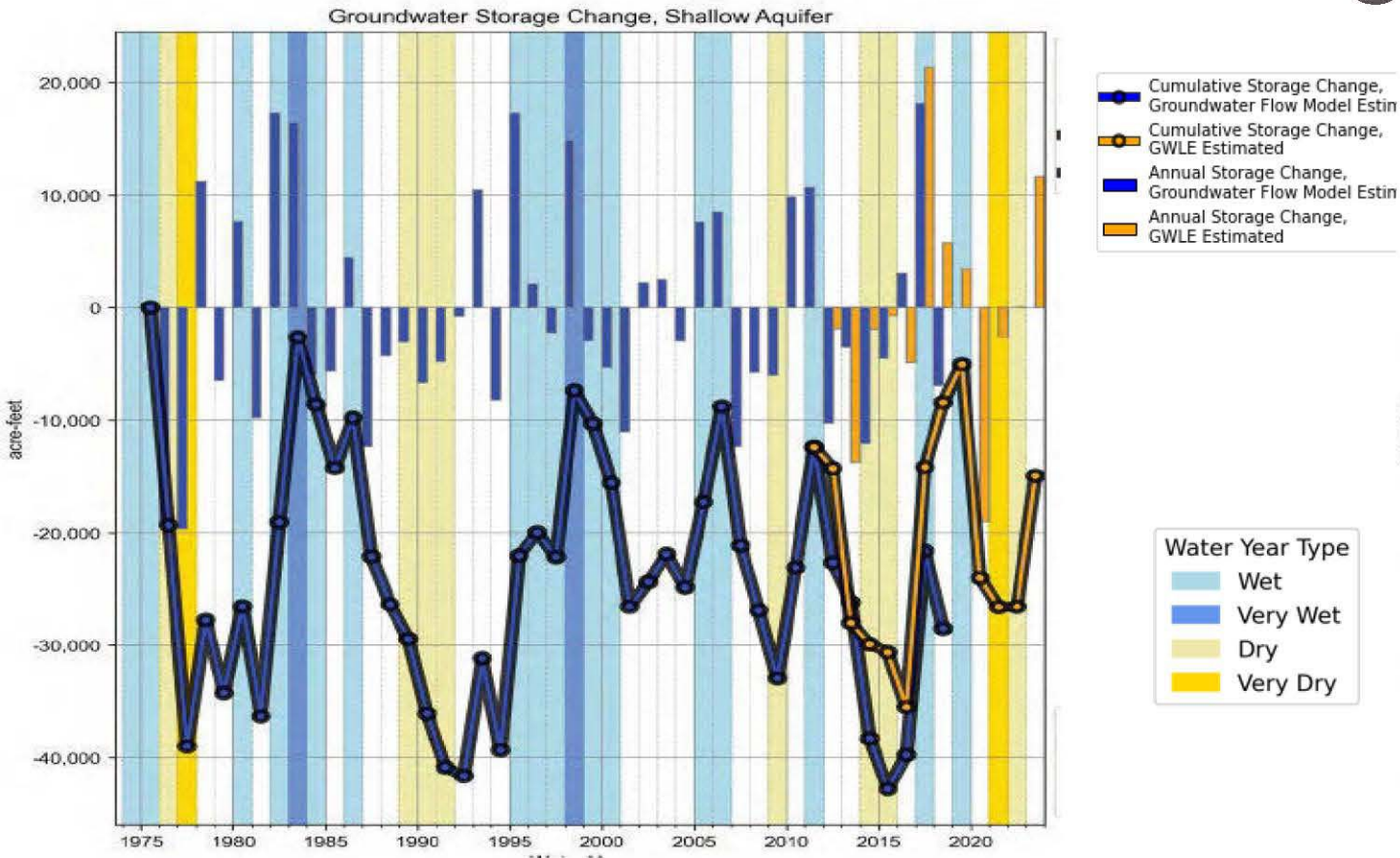


# Representative Monitoring Wells

- The GSA has 113 monitoring wells in the shallow and deep aquifer
- None of the representative monitoring wells fell below minimum thresholds
- Some had approached “warning level” in 2022



# Groundwater Storage Changes



Estimated increase in total groundwater storage of 11,980 acre-feet in WY 2023 (11,630 and 350 acre-feet in the shallow and deep aquifer systems respectively) has offset ~55% of the decline in storage that occurred between 2020-2022 drought.

SMC for Groundwater Storage determined using SMC for Chronic Lowering of Groundwater Levels as proxy: No minimum threshold exceedances in WY 2023

# Status of Other Sustainability Indicators



## Depletion of Interconnected Surface Water

- No exceedances of minimum thresholds in WY 2023
- Need to address data gaps related to depletion of interconnected surface water



## Degradation of Water Quality

- No exceedances of minimum thresholds in WY 2023



## Land Surface Subsidence

- No exceedances of minimum thresholds in WY 2023



# Rate and Fee Study Update

The last Rate and Fee Study was conducted in 2022. GSA Board is scheduled to make a recommendation in May/June:

Must be updated to include:

1. Updated Budget & Revenue Requirements
2. Updated Groundwater Use Estimates

$$\frac{\text{Revenue Requirement (\$\$)}}{\text{Acre Feet Pumped}} = \text{Rate (\$ per AF)}$$

# Preliminary Rate (as of March 2024)

**2022-PRESENT**  $\frac{\$823,700}{20,574.4 \text{ AF}} = \$ 40.00 \text{ per AF per Year}$

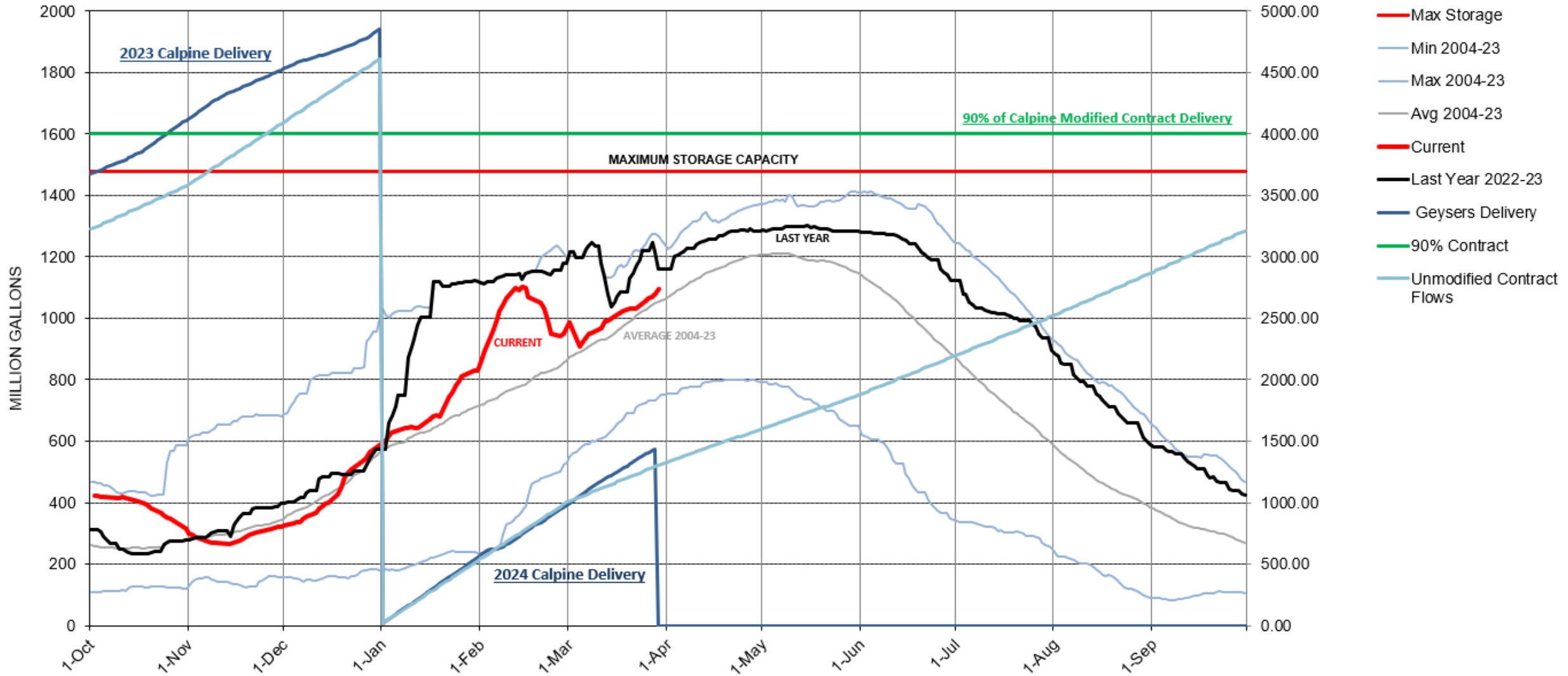
**EXTRACTION  
CORRECTIONS**  
*(with 3% Appeals  
Allowance)*  $\frac{\$823,700}{18,612.8 \text{ AF}} = \$ 44.26 \text{ per AF per Year}$

**EXTRACTION  
CORRECTIONS &  
BUDGET  
ADJUSTMENTS**  $\frac{\$851,340}{18,612.8 \text{ AF}} = \$ 45.74 \text{ per AF per Year}$

# Recycled Water Update



# Current Recycled Water Storage



# 2024 Discharge Update

582.8 Million Gallons

1.025 mg/l

5,351

4,982

369

16,000

- Total volume discharged
- Average phosphorus concentration
- Pre-discharge phosphorus credit balance
- Credits used for 2024 discharge to date
- Remaining credit balance
- Credits in development (Colgan Creek Project)

# 2024 Agricultural Allotment

- 1.58 billion gallons - total allotment for 2023
- 1.02 billion gallons - total allotment usage in 2023 (64%)
- 1.10 billion gallons - current allotment for 2024**



# Questions?

