

# EKI TECHNICAL PRESENTATION #44

## COSUMNES SUBBASIN GSP IMPLEMENTATION

04 DECEMBER 2024

COSUMNES GROUNDWATER AUTHORITY BOARD OF DIRECTORS MEETING

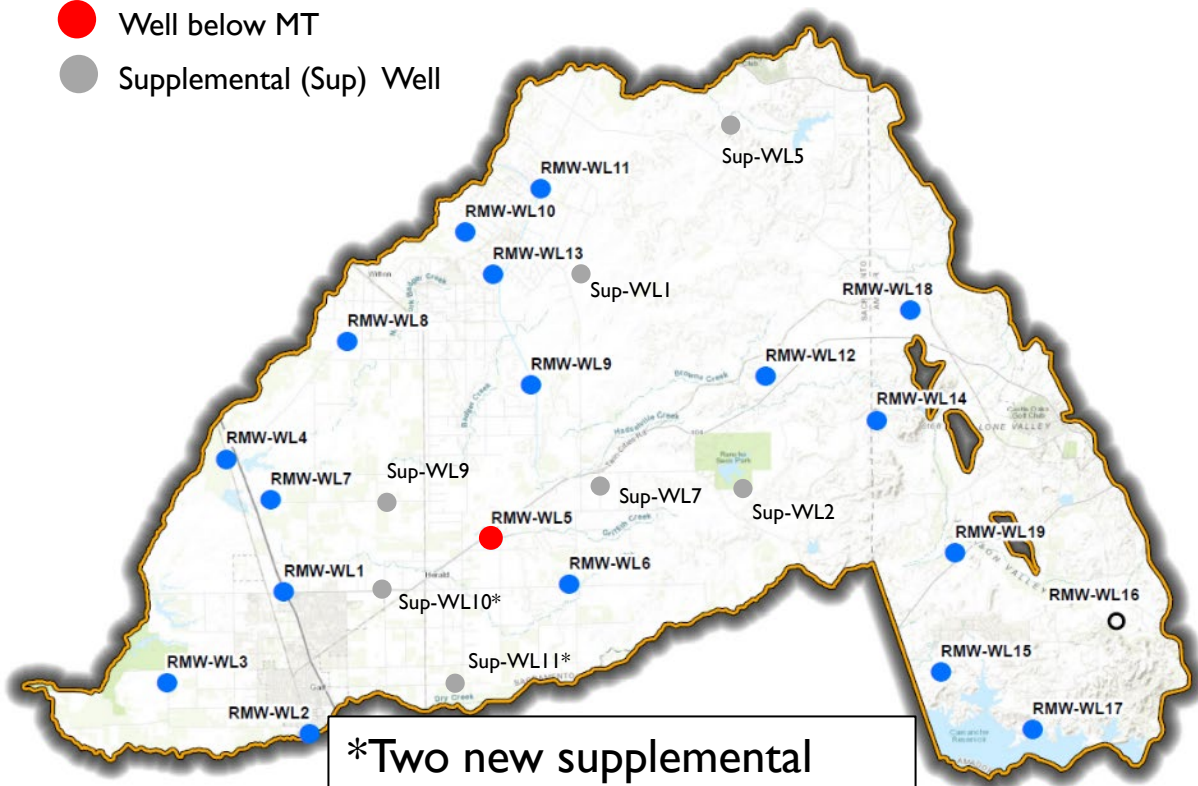
# OUTLINE

- Fall 2024 Monitoring Event
  - Representative Wells for the Chronic Lowering of Groundwater Sustainability Indicator (RMW-WLs).
  - Representative Wells for the Interconnected Surface Water Sustainability Indicator (RMW-ISWs).
- Annual Report Status

# FALL 2024 MONITORING RESULTS (1 OF 4)

## Chronic Lowering Of Groundwater Levels SMCs

- Not Measured
- Well at or above MT
- Well below MT
- Supplemental (Sup) Well



\*Two new supplemental wells added as part of data gap filling implementation.

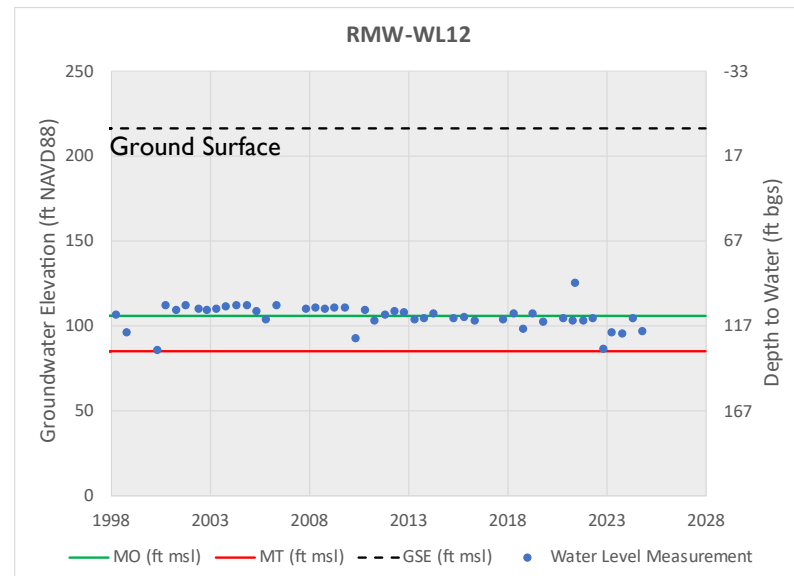
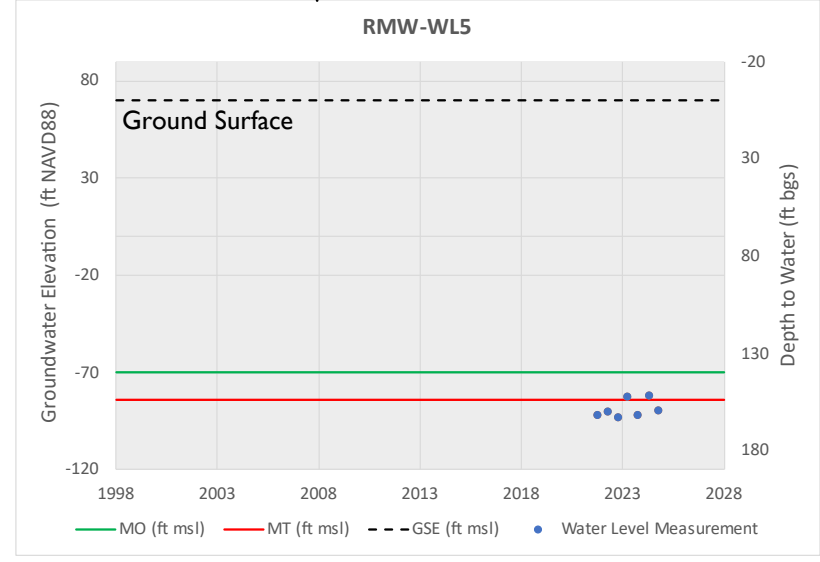
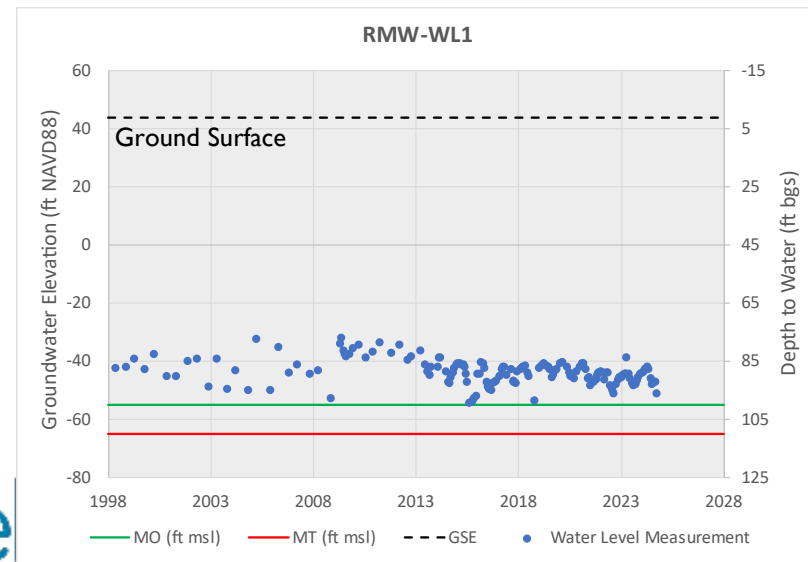
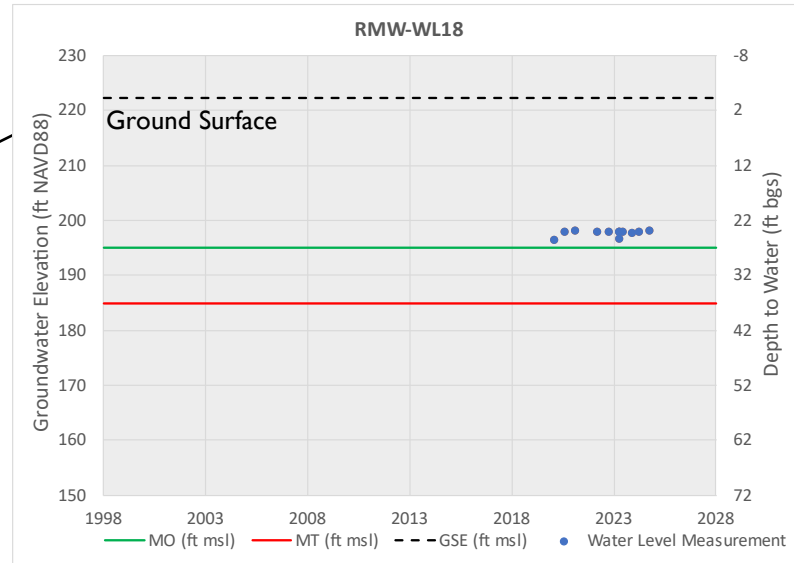
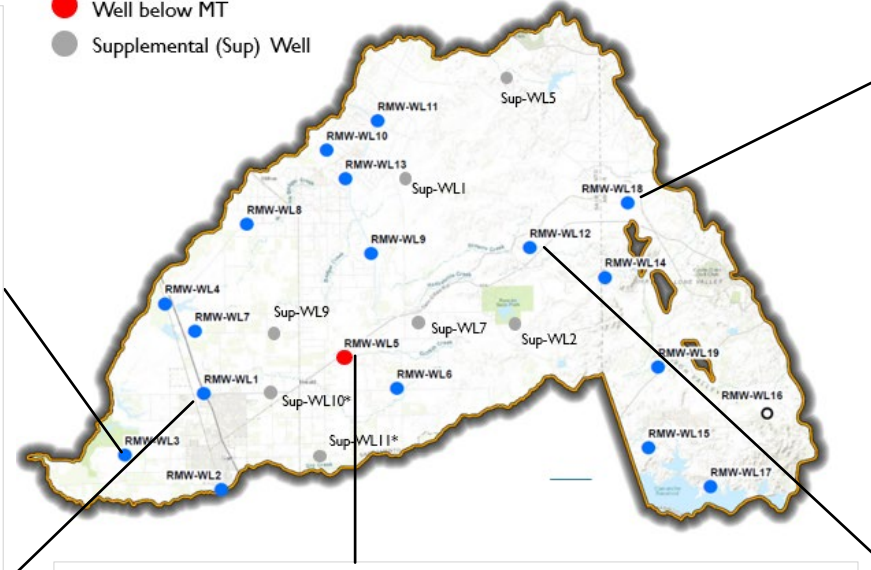
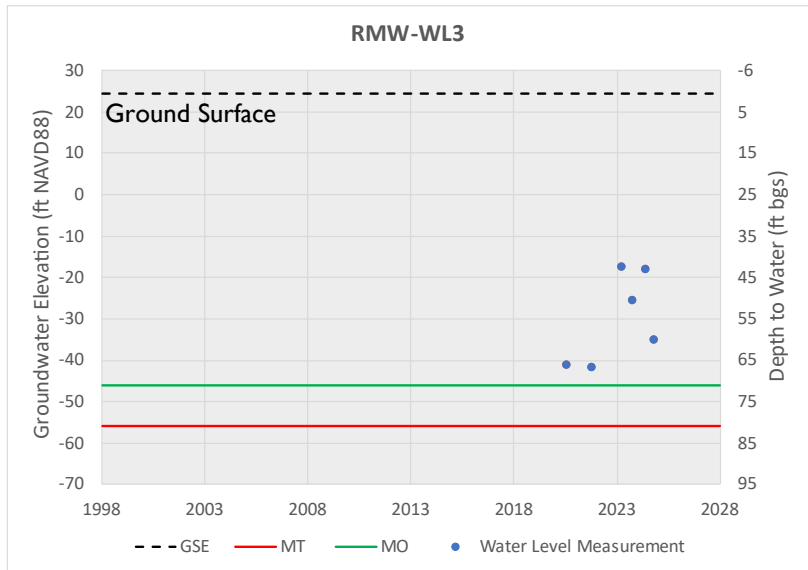
On average, water levels increased by half a foot between Fall 2023 and Fall 2024.

- 18 of the 19 RMW-WLs wells were sampled.
- One well (RMW-WL5) had water levels below the Minimum Threshold (MT), but the water level was 2 feet greater than Fall 2023. *Note: Measured water levels were not available to calculate the Sustainable Management Criteria (SMCs) for RMW-WL5, so placeholder values were used as a starting point with the intent to revise the SMCs.*
- RMW-WL5 has the lowest water level in the network and substantially influences the mapped cone of depression. However, there is no record of total well depth or perforated interval(s) for this well. The data gap is therefore a high priority to fill.

# FALL 2024 MONITORING RESULTS (2 OF 4)

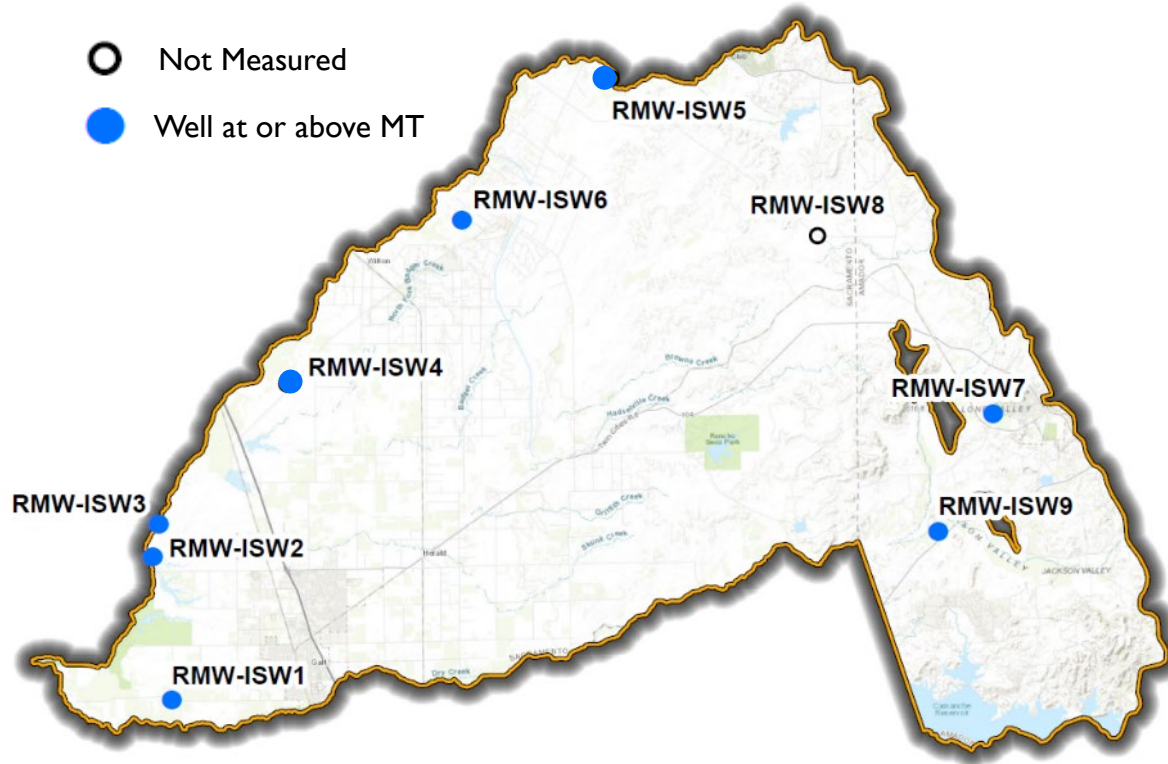
## Select RMW-WL Hydrographs

- Not Measured
- Well at or above MT
- Well below MT
- Supplemental (Sup) Well



# FALL 2024 MONITORING RESULTS (3 OF 4)

## Interconnected Surface Water SMCs

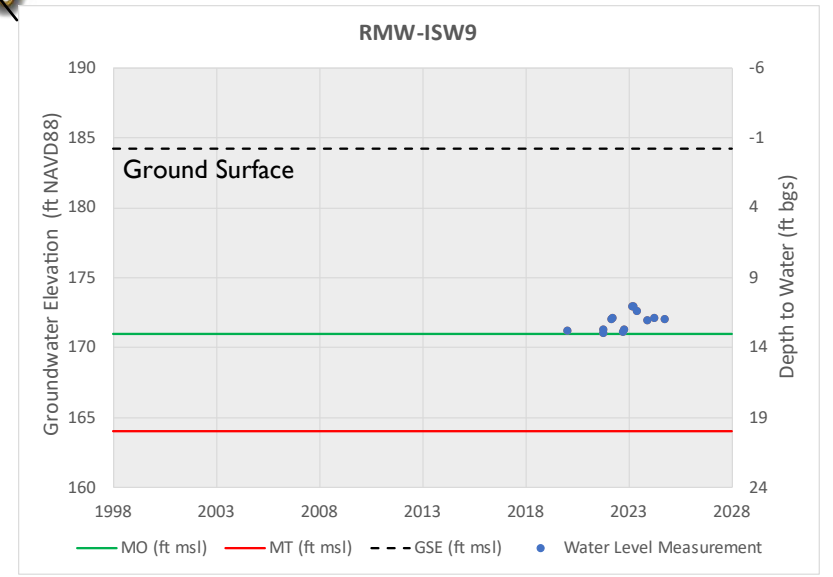
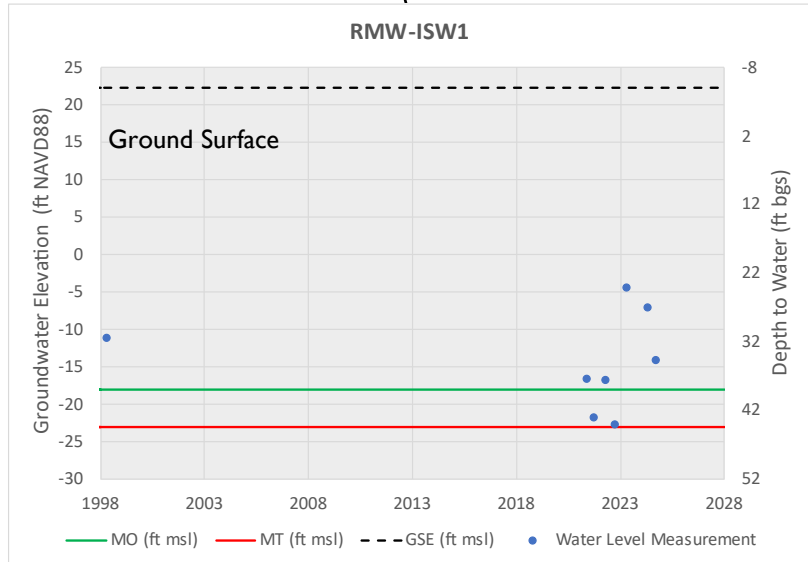
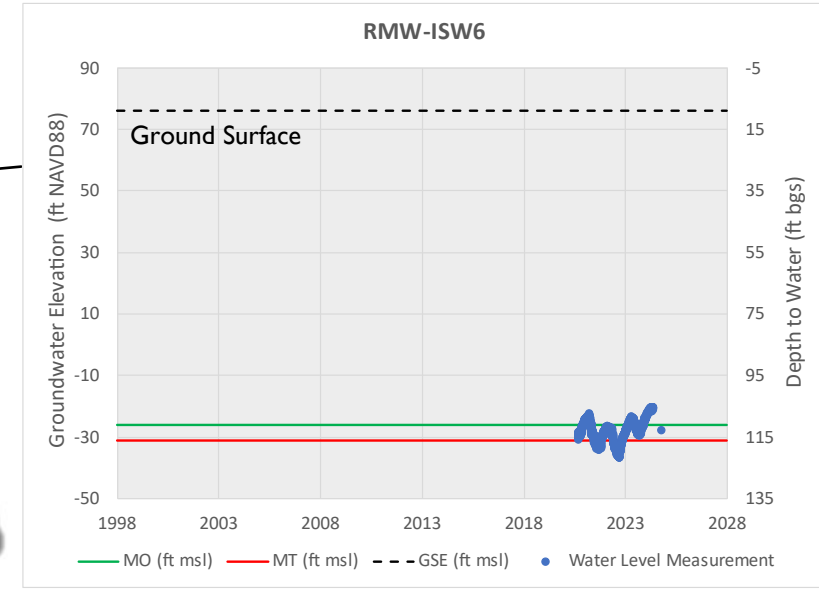
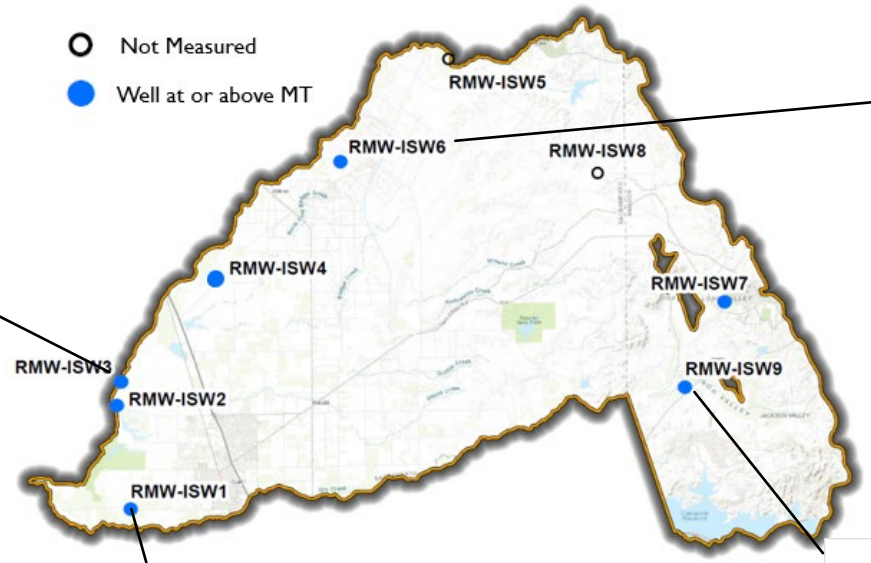
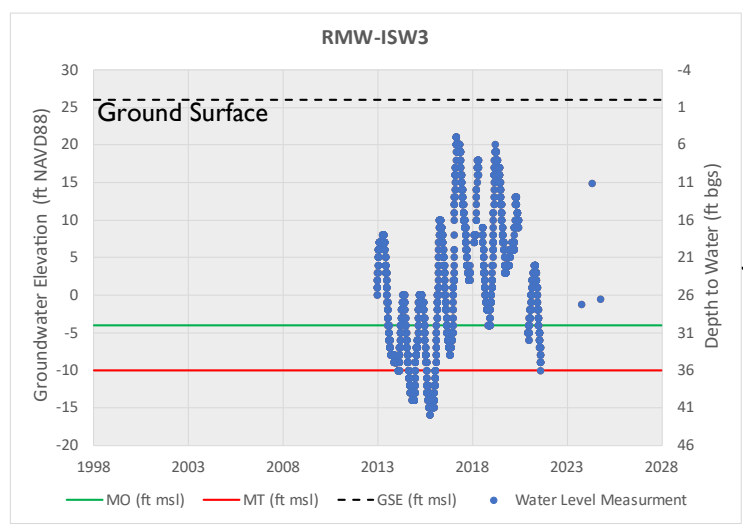


On average, water levels increased by one foot between Fall 2023 and Fall 2024.

- 8 of the 9 RMW-ISWs were sampled (remaining well is scheduled for sampling in December).
- The water levels in 7 of the 8 sampled wells were greater than the MT (the water level in the remaining well [RMW-ISW2] was equal to the MT).

# SPRING 2024 MONITORING RESULTS (4 OF 4)

## Select RMW-ISW Hydrographs

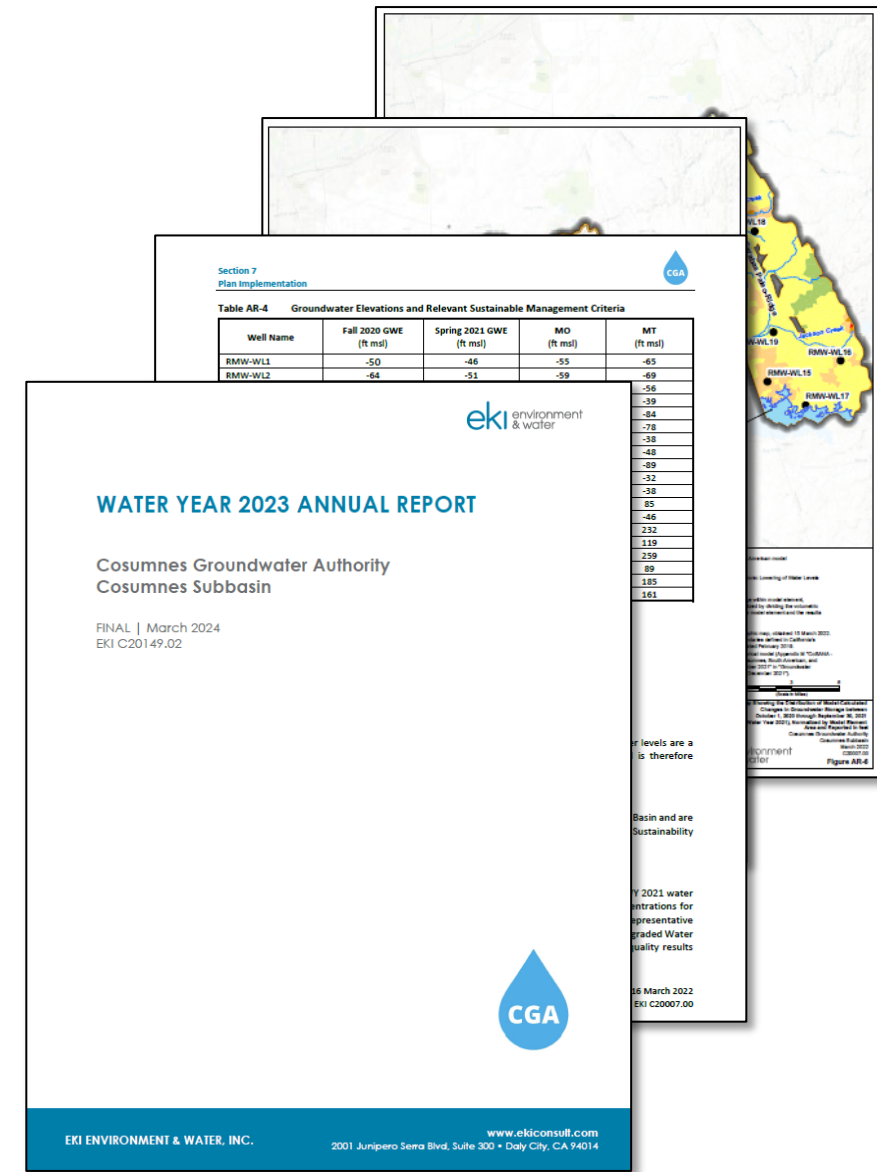


# ACTIONS TO FILL MONITORING DATA GAPS

- Fall Monitoring Data Gaps
  - ACGMA GSA: Establish access or replace RMW-WL16 (BVR\_MW-01).
  - SRCD GSA: Measure and report water level in RMW-ISW8 (planned visit in December).
- Select Monitoring Network Data Gaps per the GSP
  - GSAs: Add domestic wells as supplemental monitoring sites.
  - ACGMA GSA: Expand monitoring sites in Amador County to address spatial variability and uncertainty in water table conditions in the Basin Foothills Subbarea.
  - SRCD GSA: Activate Dry Creek stream gauge (Applied for DWR CalSIP Stream Gage technical assistance).

# WY 2024 ANNUAL REPORT

- Covers the period 1 October 2023 through 30 September 2024.
- Provides information on groundwater conditions and implementation of its GSP, including progress on Projects and Management Actions (PMAs) and addressing the Recommended Corrective Actions (RCAs).
- DWR will only respond to the agency if additional information is needed or if there are concerns over progress reaching sustainability.





# INFORMATION STILL NEEDED FOR 2024 ANNUAL REPORT

✓ = data received  
 ○ = data not received

Requested Data	
Groundwater Elevation Data	
✓	RMW-WL*
✓	RMW-ISW*
✓	Supplemental Wells
✓	Publicly available data
Water Quality Data	
✓	RMW-WQ*
✓	Publicly available data
Stream Gauge Data	
✓	Cosumnes River
✓	Mokelumne River below Camanche
○	Jackson Creek
✓	Camanche Reservoir Stage

Requested Data	
Surface Water Delivery Data	
✓	City of lone wastewater treatment plant
✓	Agricultural diversions from the Folsom South Canal (FSC)
Stream Diversions	
✓	Reported stream diversions downloaded from the Electronic Water Rights Information Management System (eWRIMs)
✓	Monthly Cosumnes River diversion by Rancho Murieta
Land Use Changes	
○	Identification of major land use changes

Requested Data	
Pumping Data	
✓	Public Water Systems
○	City of Galt
✓	AWA – Camanche Village
✓	AWA – Camanche North Shore
GSP Implementation Text	
○	Updates on PMAs
○	Progress towards addressing DWR’s corrective actions
Additional Information	
○	Summary of stakeholder and engagement
○	Public comments
○	Additional GSA/CGA accomplishments to support sustainability

# NEXT STEPS

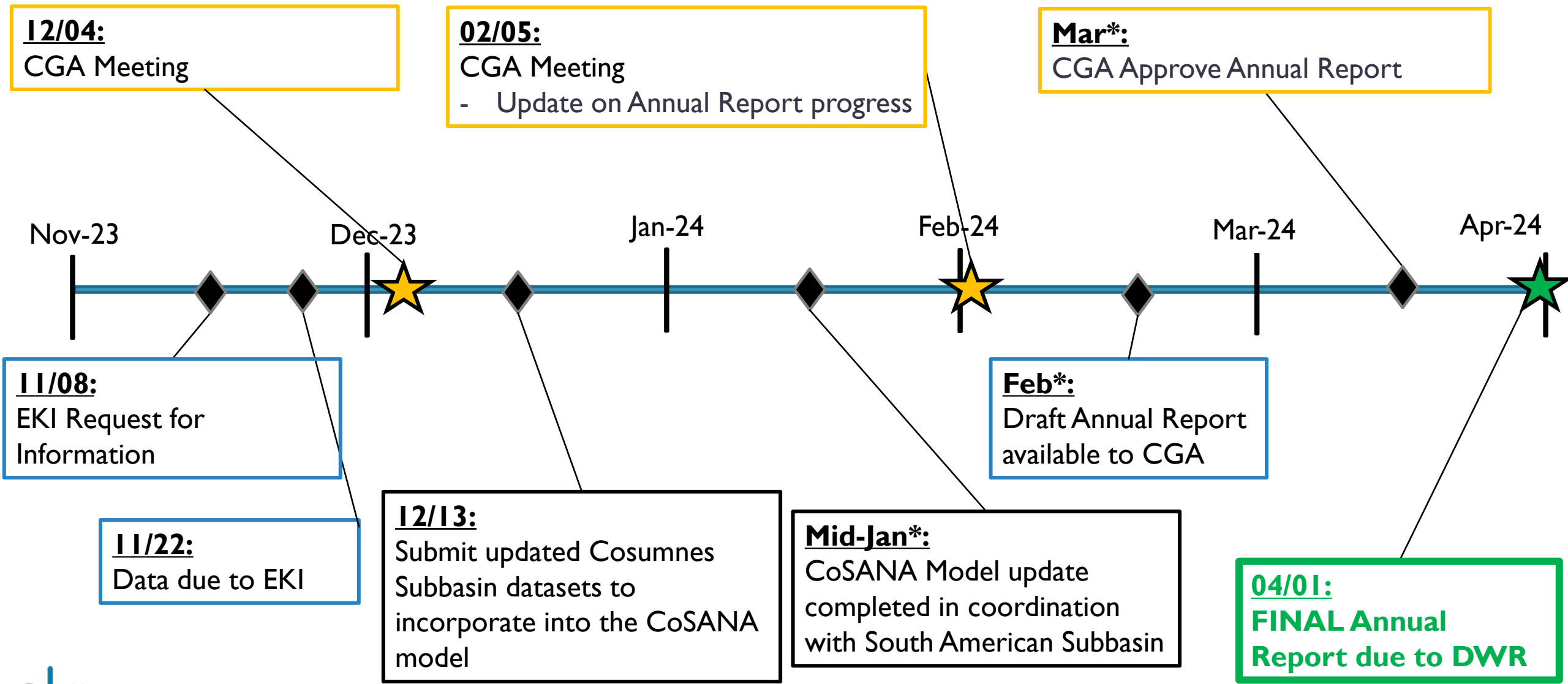
## GSA:

- Provide outstanding requested data and information for the Annual Report identified in Slide 9.
- Provide PMA progress achieved during WY 2024.
- Provide plan to address RCAs and implementation progress during WY 2024.

## EKI:

- Complete QA/QC and evaluation of data received.
- Extend CoSANA input data sets, and extract and summarize model output for report.
- Draft Annual Report text, tables and figures.
- Submit Draft Report to GSAs for review (February 28, 2025).
- If a special meeting is requested by CGA Board, present Draft Report at CGA public meeting, (March 2025).
- Finalize Report and Submit to DWR on or before (3/31/24).

# ANNUAL REPORT 2024 SCHEDULE



# APPENDIX A – WATER YEAR 2024 MONITORING DATA

# RMW-WL MONITORING DATA (1 OF 2)

Network ID	MO (ft NAVD 88)	MT (ft NAVD 88)	Spring 2023		Fall 2023		Spring 2024		Fall 2024	
			GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)
RMW-WL1	-55	-65	-44	89	-47	92	-38	88	-46	96
RMW-WL2	-59	-69	-55	109	-68	122	-52	107	-65	119
RMW-WL3	-46	-56	-17	42	-25	50	-18	42	-35	59
RMW-WL4	-24	-39	--	--	-20	57	-2	38	-20	57
RMW-WL5 & RMW-WQ3	-70	-84	-83	153	-92	163	-82	153	-90	160
RMW-WL6	-51	-78	-67	186	-73	192	-69	186	-75	193
RMW-WL7	-28	-38	-26	74	-26	75	-24	72	-26	74
RMW-WL8	-36	-48	-33	104	-34	106	-28	99	-34	105
RMW-WL9 & RMW-WQ13	-75	-89	-77	183	--	--	-64	170	-78	184
RMW-WL10 & RMW-WQ7	-22	-32	-26	111	-30	116	-23	108	-30	116

Red text denotes measurements exceeding the MT

# RMW-WL MONITORING DATA (2 OF 2)

Network ID	MO (ft NAVD 88)	MT (ft NAVD 88)	Spring 2023		Fall 2023		Spring 2024		Fall 2024	
			GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)
RMW-WL11	-28	-38	-32	138	-35	141	-31	137	-36	142
RMW-WL12	106	85	97	120	96	121	105	112	97	120
RMW-WL13	-36	-46	-39	164	-43	168	-37	162	-42	167
RMW-WL14	250	232	251	116	251	116	251	116	251	116
RMW-WL15	141	119	125	150	124	151	126	149	126	149
RMW-WL16	269	259	--	--	--	--	--	--	--	--
RMW-WL17 & RMW-WQ11	116	89	194	39	194	39	194	39	195	38
RMW-WL18 & RMW-WQ9	195	185	198	24	198	24	198	24	198	24
RMW-WL19 & RMW-WQ10	171	161	173	11	172	12	173	11	172	12

# RMW-ISW MONITORING DATA

Network ID	MO (ft NAVD 88)	MT (ft NAVD 88)	Spring 2023		Fall 2023		Spring 2024		Fall 2024	
			GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)	GWE (ft NAVD 88)	DTW (ft bgs)
RMW-ISW1	-18	-23	0	24	--	--	-2	27	-10	35
RMW-ISW2	-3	-6	--	--	--	--	10	8	-6	24
RMW-ISW3	-4	-10	--	--	-1	27	15	11	-1	27
RMW-ISW4	-14	-19	-13	65	--	--	--	--	-18	70
RMW-ISW5 & RMW-WQ8	83	78	75	46	76	45	--	--	79	43
RMW-ISW6	-26	-31	-26	111	-31	116	-23	108	-30	115
RMW-ISW7	257	247	258	11	252	17	258	11	255	13
RMW-ISW8	179	172	185	3	--	--	--	--	--	--
RMW-ISW9	171	164	173	11	172	12	172	12	172	12

Red text denotes measurements exceeding the MT