Quarterly Status Update of the Groundwater Sustainability Plan Implementation

SCV GSA Board Meeting
June 2, 2025
Item No. 3.4

KEY UPDATES

- Grant reimbursed Basin Wide Well Review
- Grant reimbursed Deep Monitoring Well Installation
- Voluntary Groundwater Monitoring Program for Owners of De Minimis Wells (specific canyon areas)
- Outreach for Groundwater Extraction Reporting program for Owners of Non-De Minimis Wells
- Progress with Updating the Hydrogeologic Conceptual Model
- Look Ahead with GSP 5 Year Update

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KEY UPDATES-BASIN WIDE REVIEW OF WELL RECORDS

Basin wide Review of Well Records

•Systematic review of well records has identified data concerns. State and County well records reflect a wide range of record quality

•Detailed discussions with the State and LA County on records and record availability have taken place

•Matching State (or County) well records to wells in the field may not be possible in many cases without file reviews at County and State level

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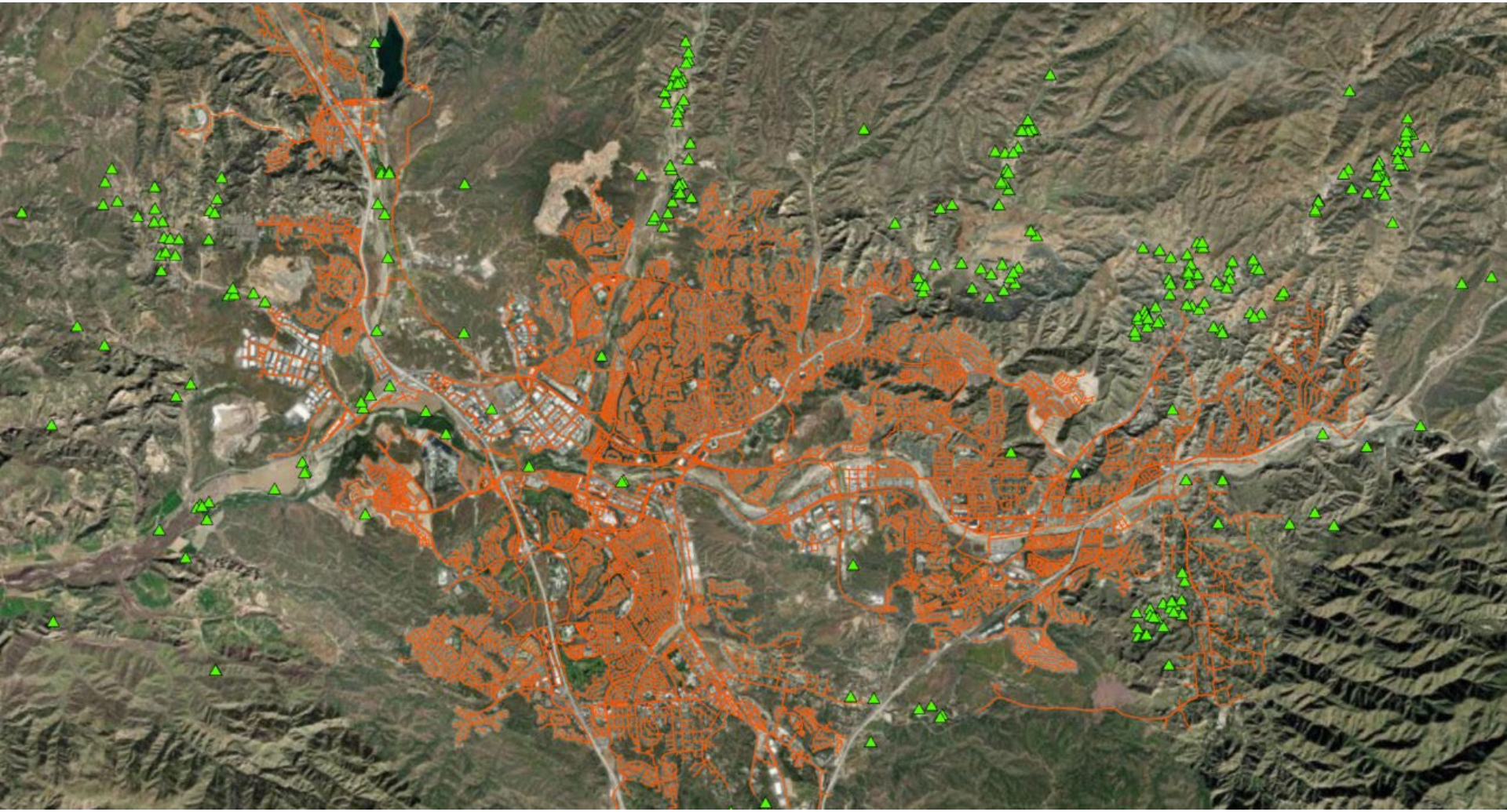

Domestic wells far from water distribution network

SCV water distribution network

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KEY UPDATES- DEEP MONITORING WELL INSTALLATION

Bids received for well construction

- Five bids under review now
- Appears we received at least one responsive bid
- Next steps include completing bid review, discuss schedule with driller
- Anticipate conversation with DWR Grant Manager about next steps
  - Schedule is primary concern

Figure 1
Proposed New Monitoring Well Sites

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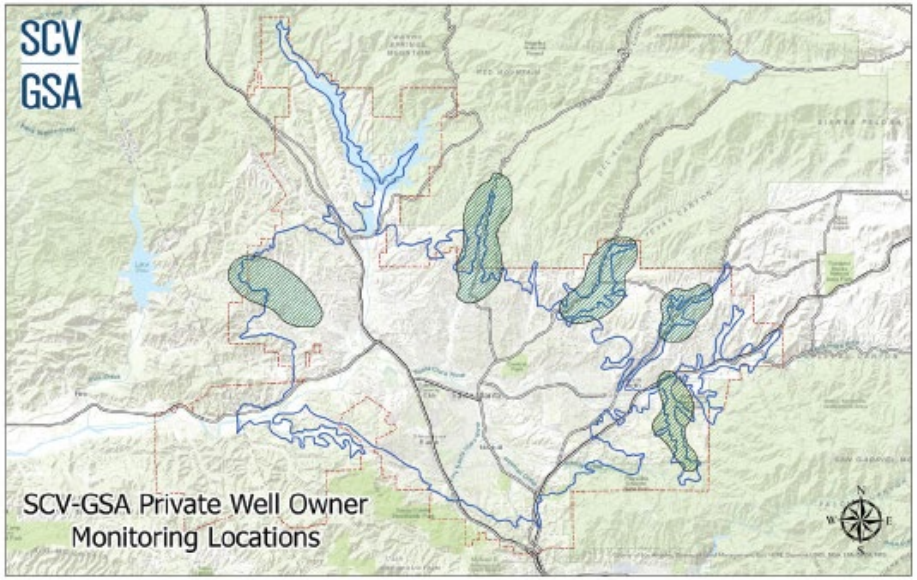
VOLUNTARY GROUNDWATER MONITORING PROGRAM FOR OWNERS OF DE MINIMIS WELLS (SPECIFIC CANYON AREAS)

Outreach and Results

- Thirty-nine flyers mailed in January
- Response requested by March 1
- No responses to date

- Next Steps
  - Add page on GSA Website soliciting volunteers
  - Continue making stakeholders aware of the program during the GSP 5 Year update
  - Keep DWR appraised
  - Re evaluate as part of GSP 5 Year Update

Location Map



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OUTREACH FOR GROUNDWATER EXTRACTION REPORTING PROGRAM FOR OWNERS OF NON-DE MINIMIS WELLS

GSA team and Outreach Consultant efforts

•Outreach outline completed, as are draft materials for well owner review.

•Consultant is contacting well owners to schedule a workshop, or workshops if needed.

•Workshop outline addresses the need for extraction reporting, and requirements.

Outreach and Communication back to GSA Bod

- Approach with workshop(s) includes getting well owner feedback on forms and processes
- After this we will make necessary revisions and update your Board
- Expect feedback will help to clarify
- **Schedule to install meters for owners with many wells**
- **Reporting schedules**
- **Potential for Board Policy**

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HYDROGEOLOGIC CONCEPTUAL MODEL UPDATE

Review Existing Geologic Data	Records assembled, computerized, review under way (cross sections, boring logs, etc.)
	More detailed review of selected boring logs completed (15 well logs)
	Geophysical survey completed
	Literature review under way to better describe depositional history of the Saugus Formation (part of addressing DWR comment on potential for subsidence)
Data Interpretation and Iteration	Team communication on data and interpretation continues
	Next big effort is making revisions of geologic interpretations from boreholes (clarified thicknesses of aquifers)
	Important for responding to DWR comments and for updated flowmodel

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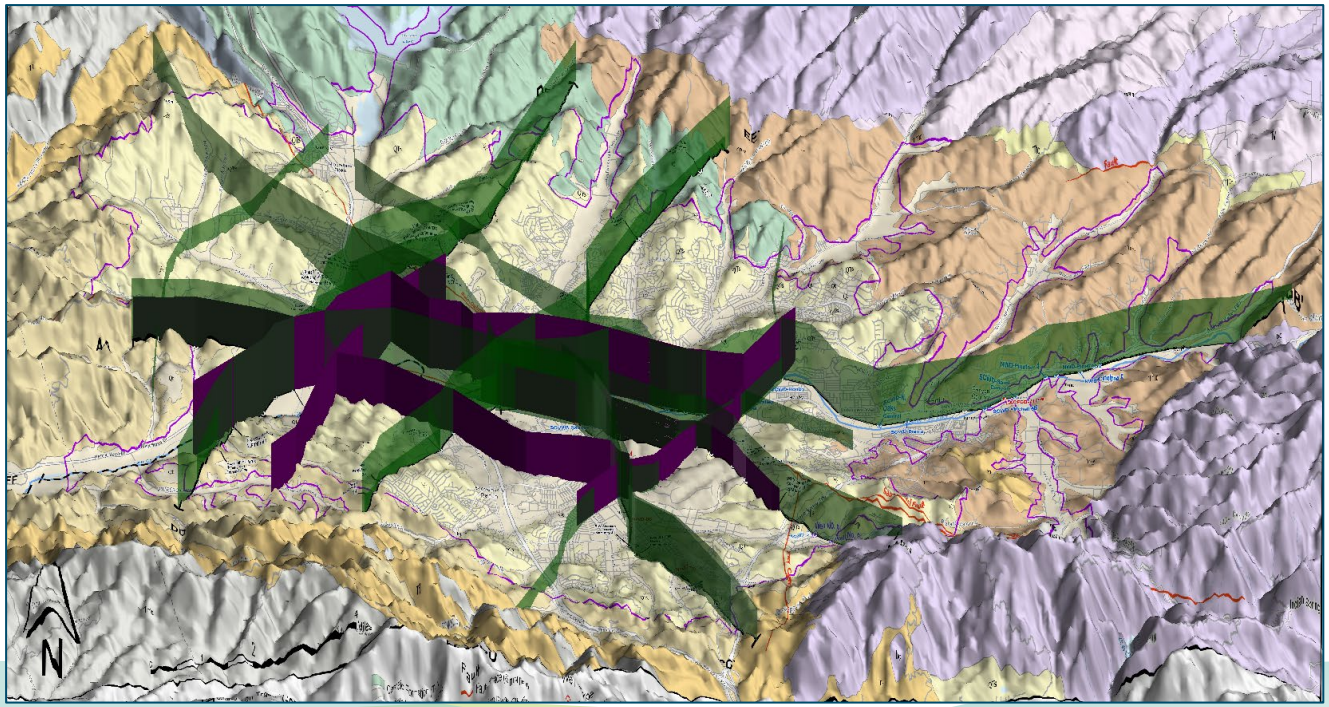
VIEW OF NEW SECTIONS ADDED

Geosyntec has added 186 thousand linear feet (35 miles) of newly available cross sections into the HCM, above and beyond the 632 thousand linear feet of cross sections already in the HCM from Richard Slade's group.

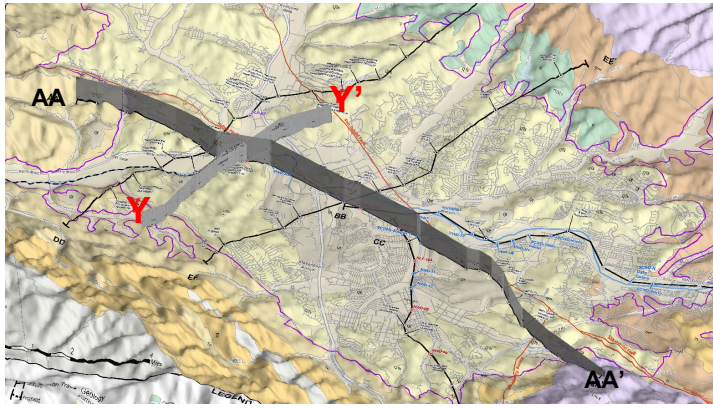


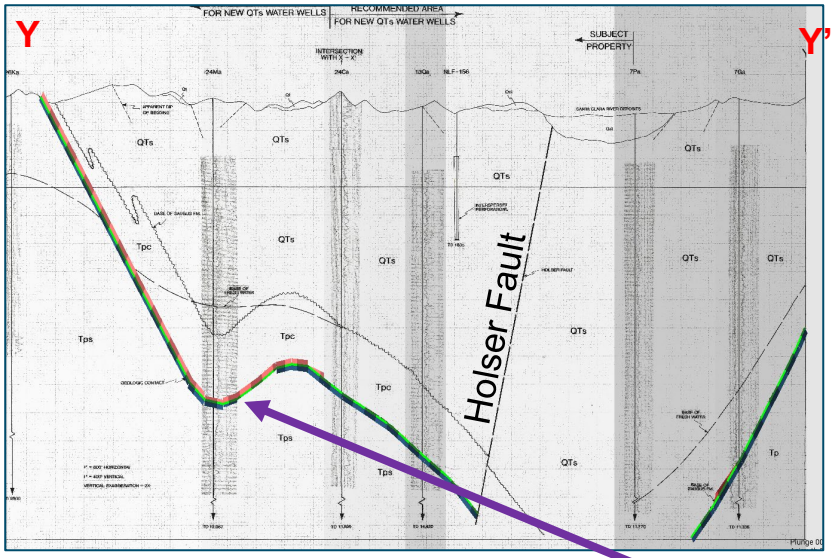
Current Section Extents

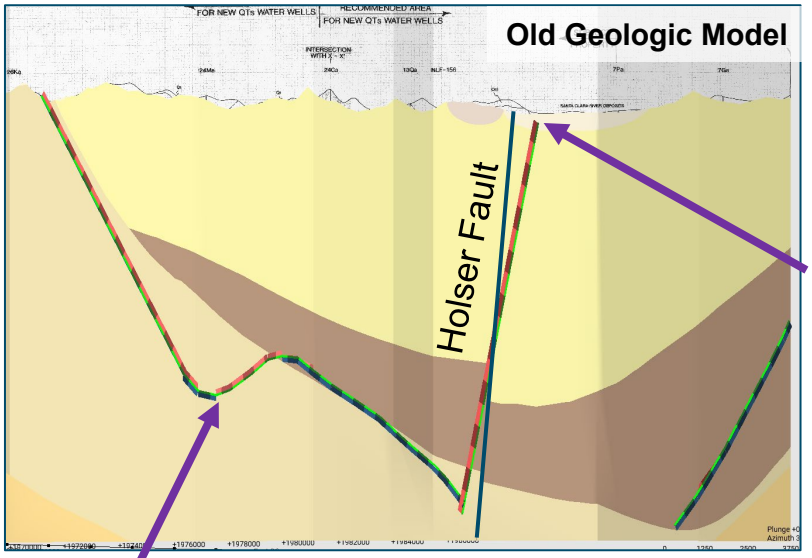
New Section Extents

SECTION Y-Y' –UPDATES

- 2025 HCM Geologic Model update based on newly available cross sections
- Previous modeled utilized AA-AA'
- Incorporating Y-Y' shows anticipated changes to base Saugus, base Sunshine Ranch, and Holser fault







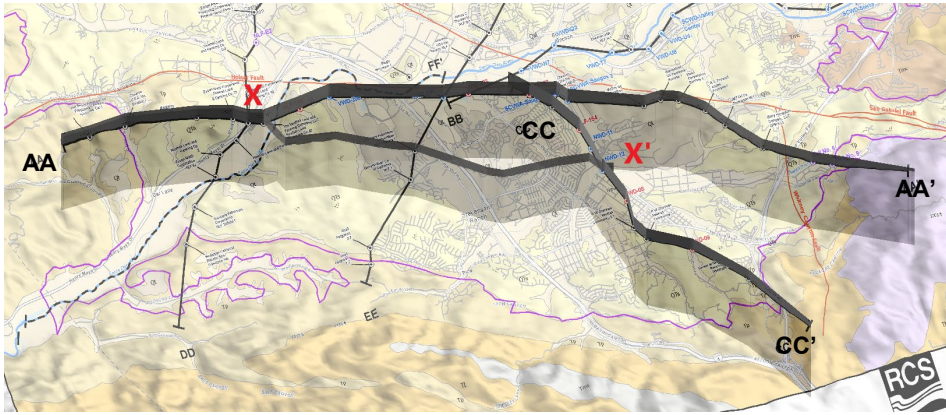
Updated dip angle and orientation of Holser Fault.

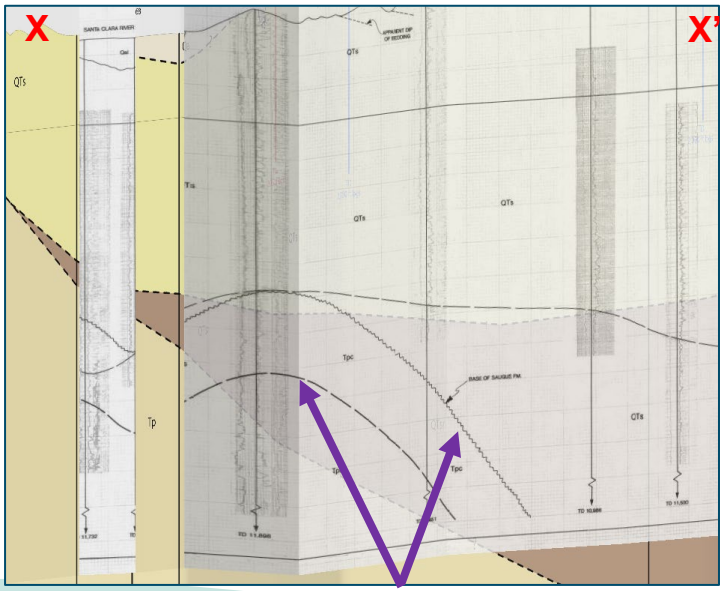
Terminates beneath Alluvium.

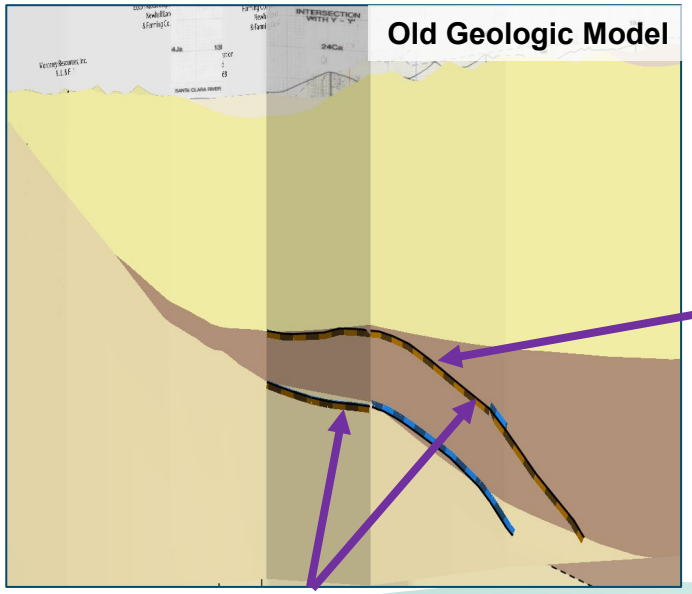
Modified base of Sunshine Ranch Member

SECTION X-X' – UPDATES

- 2025 HCM Geologic Model update based on newly available cross sections
- Previous modeled utilized AA-AA' through EE-EE' in this area
- Incorporating X-X' shows anticipated changes to base Saugus and base Sunshine Ranch

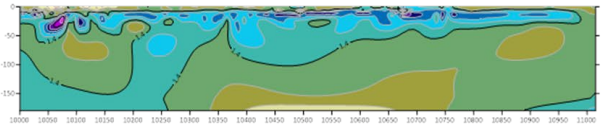




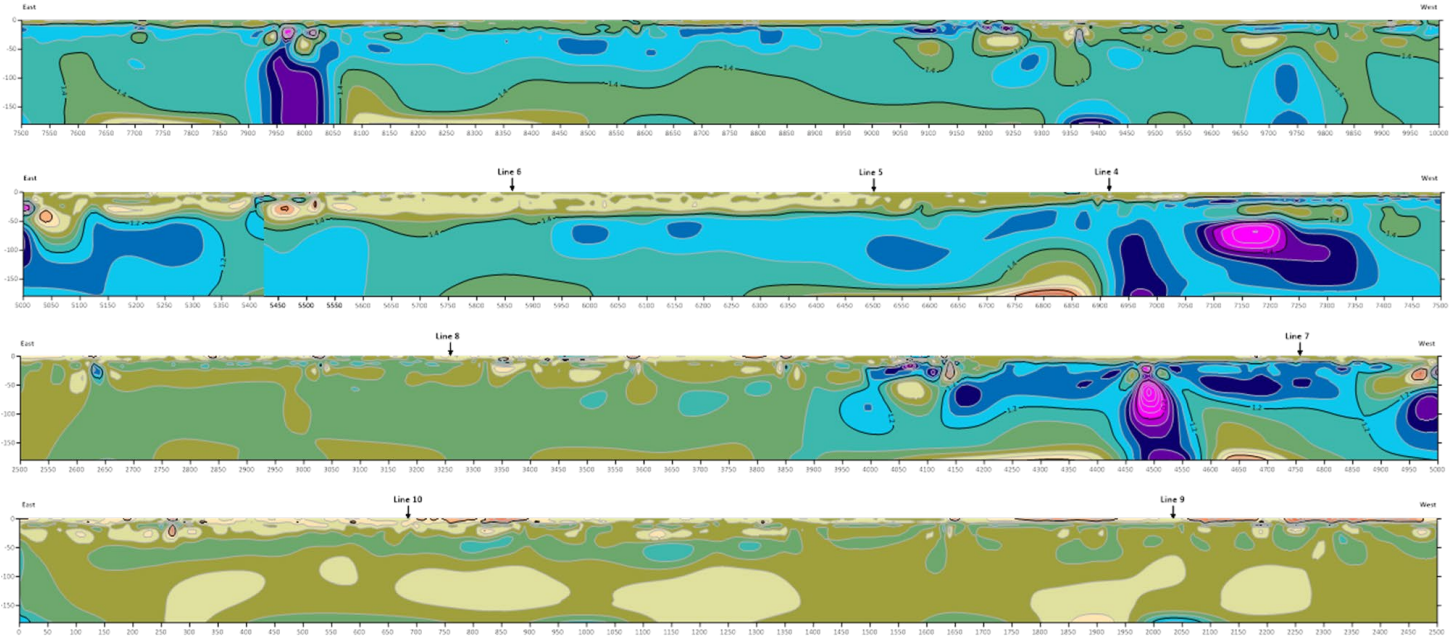


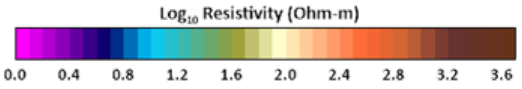
Modified top and base of Sunshine Ranch Member

ELECTRIC RESISTIVITY (LONG SECTION)



- Resistivity data collected to identify changes in alluvial thickness.
- ~180-200 ft deep in the long section and ~150ft in the cross section
- Data is impacted by the presence of nearby subsurface infrastructures (I-5 bridge, electric poles)





Warmer: Coarse material
Cooler : Fine material.

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LOOK AHEAD

	2025							2026										
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
DWR Required Annual Reports								SCV-GSA WY2025 Annual Report											
SGM Round 2 Grant Monitoring Well Installation		SGM Alluvial & Saugus monitoring wells installation																	
Planning and Technical Work for GSP 5 Year Update																			
RCA1. Hydrogeologic Conceptual Model, Sustainable Yield	HCM Update	Using updated HCM, prepare initial draft response to DWR comments									Clarify Sustainable Yield								
Updated Groundwater Flow Model			Incorporation of Updated HCM data								Model Update Complete								
RCA2. Better Describe Undesirable Results related to Chronic Lowering of Groundwater Levels, revise SMC as Appropriate			Using HCM prepare initial graphics to explain concepts for UD discussion.									Update Sustainable Management Criteria							
RCA3. Clarify SMC for Degraded Water Quality related to Contamination, Clarify if Agricultural Wells are used for Water Quality Monitoring				Prepare initial approach to address DWR comments on addressing contamination and SMCs.										Update Sustainable Management Criteria					
RCA4. Additonal detail on Rate, Timing, and Volume of surface water depletion in relation to SMC. Consider use of DWR guidance on Interconnected Surface Water									Consider DWR Guidance Document. Model Simulation for ISW, water budget										
Outreach Planning for GSP 5 Year Update			Develop SOW for outreach consultant and initiate contracting																
Workshops																			
Workshop 1. Why is the GSP 5 Year Update Required?								WS1: Why Required?											
Workshop 2. Clarification of What Constitutes Undesirable Results regarding Chronic Lowering of Water Level (SMC)										WS2: Undesirable result									
Workshop 3. Groundwater Flow Model Update, Revised Sustainable Management Criteria (water levels)												WS3: Model Update SMC- MO, MT							
Workshop 4. Groundwater Quality SMC for Contamination. Water Quality Management Zone Approach														WS4: WQ SMC. WQ management zones					
Preparation of GSP 5 Year Update											GSP 5-year update report writing								
Board Adoption																	BoD GSP adoption		

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LOOKING AHEAD

- October 2025 BoD Meeting
- Updates on all tasks
- Presentation of updated HCM
- Update on GSP 5 Year Update planning

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Questions?

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