United Water
CONSERVATION DISTRICT

AGENDA
WATER RESOURCES COMMITTEE
Tuesday, April 4, 2023, at 9:00 a.m.
UNITED WATER CONSERVATION DISTRICT
Boardroom, 1701 N. Lombard Street, Oxnard, CA 93030

OPEN SESSION:
Committee Roll Call

1. **Public Comment**
   The public may address the Water Resources Committee on any matter on the agenda or within the jurisdiction of the Committee. All comments are subject to a five-minute time limit.

2. **Approval of Minutes - Motion**
   The Committee will review and consider approving the minutes from the Water Resources Committee meeting of January 31, 2023.

3. **Hydrologic Conditions Update for the Santa Clara River Watershed, March 2023** (30 minutes: Mr. McEachron)
   Staff will deliver a presentation detailing observed precipitation and stream flow conditions within the watershed of the Santa Clara River following the significant storms of January through March 2023, including an update on surface water storage in Lake Piru and Castaic Lake, conditions at the Freeman Diversion, and measured changes in groundwater elevations in certain key wells.

4. **Optimization of groundwater recharge at the Saticoy Facility** (30 minutes: Dr. Sercu)
   Staff will deliver a presentation describing current efforts to maximize groundwater recharge in the Saticoy, Noble and Rose basins, including monitoring of basin percolation rates, high-resolution monitoring of Forebay groundwater elevations and strategic basin rotation and maintenance.

5. **Water Resources Department and GSA Activities Update** (10 minutes, Mr. Lindquist)
   Staff will provide an update to the Committee on recent Water Resources Department activities and provide an update on GSA activities and schedules for the Fillmore and Piru Basins, Mound Basin and Fox Canyon Groundwater Management Agency (Oxnard, Pleasant Valley and Las Posas Valley basins).

FUTURE AGENDA ITEMS

ADJOURNMENT

Directors:
Daniel C. Naumann, Chair
Mohammed Hasan
Gordon Kimball

Staff:
Mauricio E. Guardado, Jr.
Dr. Zachary Hanson
John Lindquist
Dr. Bram Sercu
Dr. Maryam Bral
Kathleen Kuepper
Murray McEachron
Dr. Jason Sun

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Approved: _____ _____
Mauricio E. Guardado, Jr., General Manager Dr. Maryam Bral, Chief Engineer

Posted: (date) March 30, 2023 (time) 6:30 p.m. (attest)
At: UWCD Headquarters, 1701 N. Lombard Street, Oxnard, CA 93030

Posted: (date) March 30, 2023 (time) 6:45 p.m. (attest)
At: www.unitedwater.com

MINUTES
WATER RESOURCES COMMITTEE
Tuesday, January 31, 2023, at 9:00 a.m.
UNITED WATER CONSERVATION DISTRICT
Boardroom, 1701 N. Lombard Street, Oxnard CA 93030

Committee Members Present:
Daniel Naumann, chair (arrived at 9:06 a.m.)
Lynn E. Maulhardt, director
Gordon Kimball, director

Staff Present:
Mauricio Guardado, general manager
Anthony Emmert, assistant general manager
Dr. Maryam Bral, chief engineer
Dan Detmer, water resources manager
Eric Elliott, associate hydrogeologist
Hanna Garcia-Wickstrum, associate environmental scientist
Dr. Zachary Hanson, hydrogeologist
Eva Ibarra, clerk of the Board
Tessa Lenz, environmental scientist/regulatory affairs
John Lindquist, supervising hydrogeologist
Murray McEachron, principal hydrologist
Zachary Plummer, technology systems manager
Dr. Jason Sun, principal hydrogeologist/modeler

Public Present:
Sam Collie
Burt Handy
Joseph Marcinko, assistant public works director, City of Oxnard
Tony Morgan, DBS&A
Jennifer Tribo, management analyst II, Ventura Water

OPEN SESSION: 9:04 a.m.
Acting Chair Maulhardt called the meeting to order at 9:05 a.m. Two Committee members were in attendance (Maulhardt, Kimball). Director Naumann was absent.

1. **Public Comment**
   Chair Maulhardt asked if there were any public comments. None were offered.

2. Approval of Minutes - Motion

Motion to approve the Minutes from the Water Resources Committee meeting of November 1, 2022, Director Kimball; second, Director Maulhardt. Voice vote: two ayes (Kimball, Maulhardt). Motion carries unanimously 2/0/1. Director Naumann was absent.

3. Hydrologic Conditions Update for the Santa Clara River Watershed, January 2023

Staff delivered a presentation detailing observed precipitation and stream flow conditions within the watershed of the Santa Clara River following the significant storms of January 2023, including an update on surface water storage in Lake Piru, conditions at the Freeman Diversion, and measured changes in groundwater elevations in certain key wells.

[Director Naumann arrived at the meeting at 9:06a.m.]

Director Maulhardt asked if staff could add a bar to the bottom of the slide showing averages and actuals, and both Director Maulhardt and Naumann asked if the District was ahead in our water levels. Principal Hydrologist Murray McEachron said the District is well ahead compared to other years. Mr. McEachron explained the levels and stated it was likely the highest flow for Sespe since gauging started and discussed the consequences of the storm.

Director Naumann asked if the District has ever had an opportunity for an exchange with Piru and Castaic? Mr. McEachron said no, and it would take time to make that happen.

The committee requested the entire presentation be presented at the next Board meeting.

4. Development of Groundwater Flow and Solute Transport Modeling of the Semi-perched Aquifer, Southern Oxnard Basin

Staff provided details of work performed to develop the Perched Aquifer Model (PAM) for the Southern Oxnard basin, including model construction and calibration. The presentation summarized progress to date, including simulation of the inland extent of the natural saltwater density wedge, and ways to represent aquifer flow and water quality conditions both historically and with the future operation of the EBB Water Project.

Director Maulhardt asked if it is fair to say the density wedge shown in the slide is a problem for the brackish water project? Dr. Jason Sun, principal hydrogeologist – modeler, said the wedge occurs naturally and that some mixing does take place. Dan Detmer, water resources manager, also joined the discussion and offered additional explanations.

Director Maulhardt said he did not fully understand what he was seeing. Dr. Sun explained that lateral groundwater flow is dominant in the project area and there is vertical migration simulated only in the upper layers of the semi-perched aquifer. He also clarified that he is presenting a hypothetical chemical release and provided a better explanation. Director Maulhardt said the presentation was very informative.

Directors Maulhardt, Kimball, and Naumann requested the entire presentation be presented at the Board meeting for a better understanding.

5. Water Resources Department and GSA Activities Update

Staff provided an update to the Committee on recent Water Resources Department activities and provided an update on GSA activities and meeting schedules for the Fillmore and Piru Basins, Mound Basin and Fox Canyon Groundwater Management Agency (Oxnard, Pleasant Valley and Las Posas Valley basins).

Director Maulhardt and Director Naumann both requested that a slide from a previous presentation, which illustrates groundwater levels for recovery to date, be included in the staff presentation to the Board, so the full Board can see where the District is now.

Director Naumann requested the schedule for EBB Water project phases be shown to the Board.

FUTURE AGENDA ITEMS
None

ADJOURNMENT 10:46 a.m.
Chair Maulhardt adjourned the meeting at 10:46 a.m.

I certify that the above is a true and correct copy of the Minutes of the Water Resources Committee Meeting of January 31, 2023.

ATTEST: _____
Daniel Naumann, Chair

Hydrologic Conditions Update for the Santa Clara River Watershed

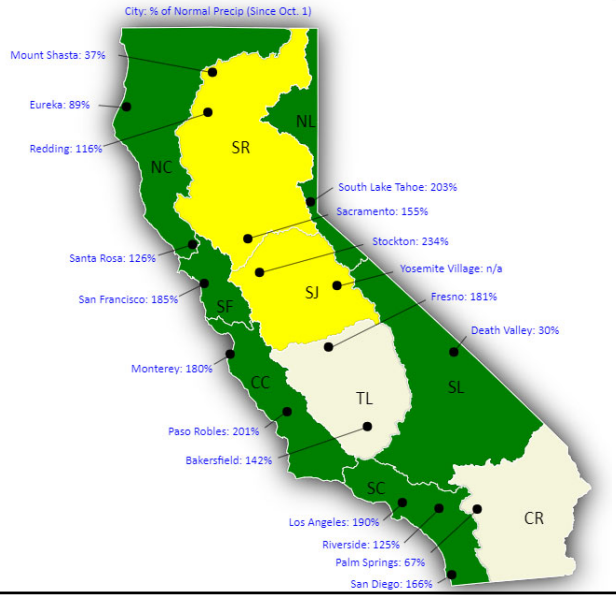
January 2023

Saticoy Recharge Facility (January 2023)

1

Data as of 11:59:59 PM on Jan 22, 2023

DAILY STATEWIDE HYDROLOGIC UPDATE

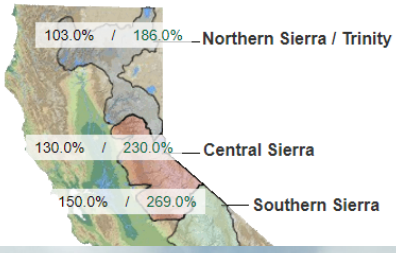


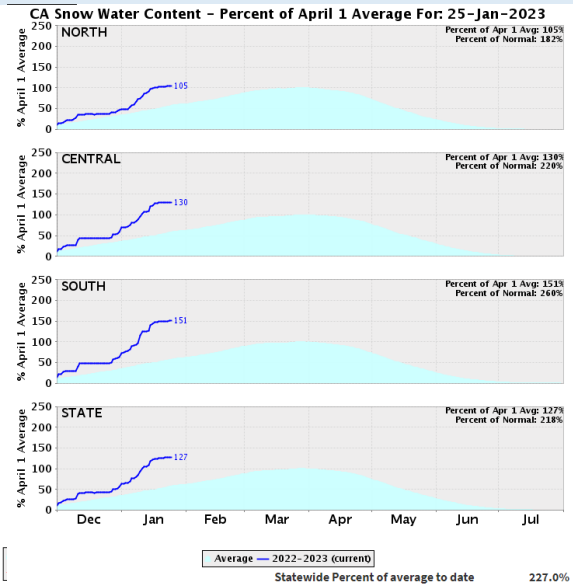
2

STATEWIDE SNOW CONTENT

Data For: **23-Jan-2023**

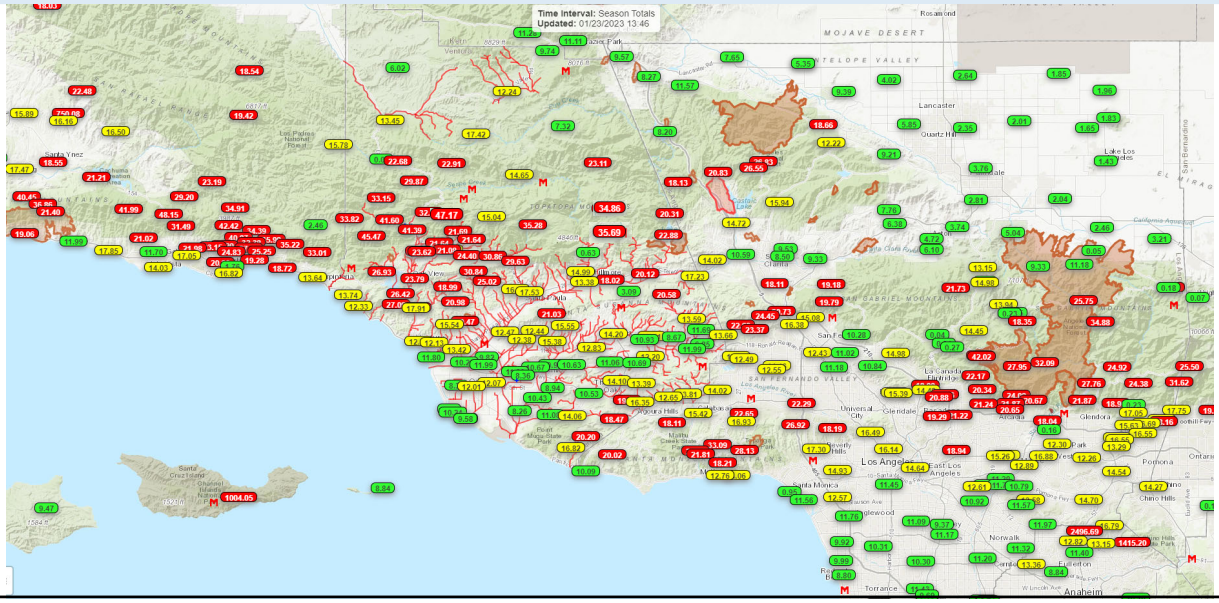
% Apr 1 Avg. / % Normal for this Date





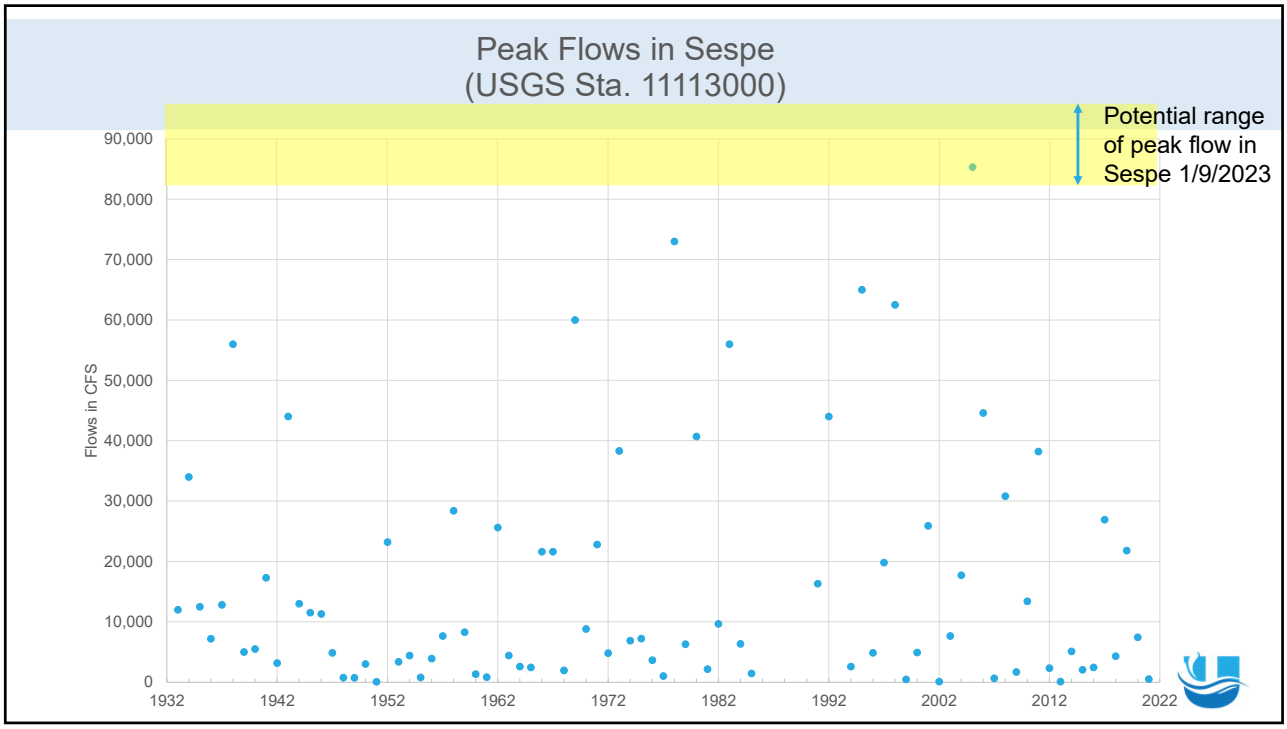
3

Local Seasonal Total Rainfall To Date (1/25/2023)



Sespe Creek

Peak Flows in Sespe (USGS Sta. 11113000)




Santa Paula Creek Looking upstream of the Harvey Diversion
(Taken in January 2023)


Santa Paula Creek Caltrans fish passage project
(Before and After Jan 2023 Storms)

Flows at the Freeman Diversion

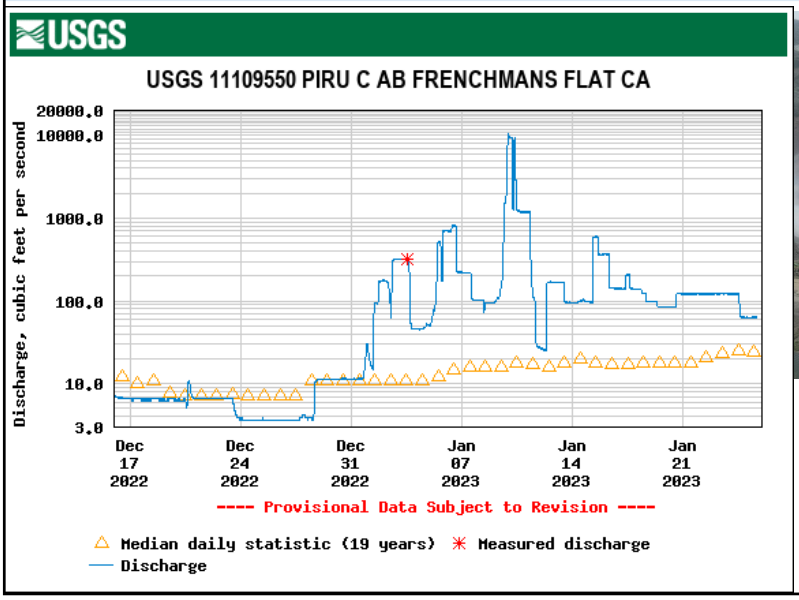
Before and After January 2023 Storms

Crest of the Freeman Diversion Looking South

Crest of the Freeman Diversion Looking South

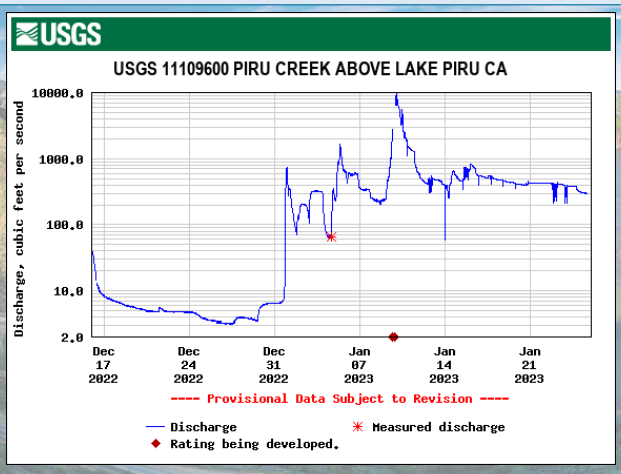
Crest of the Freeman Diversion Looking South

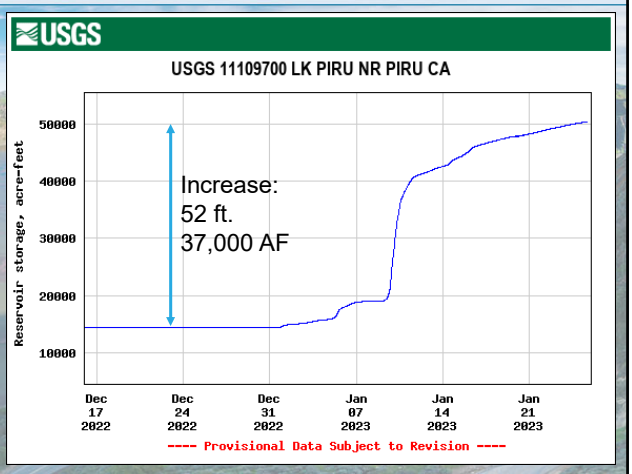
Piru Creek at Pyramid Dam



21,000 AF of Natural Inflows
Release downstream

Inflows into Lake Piru





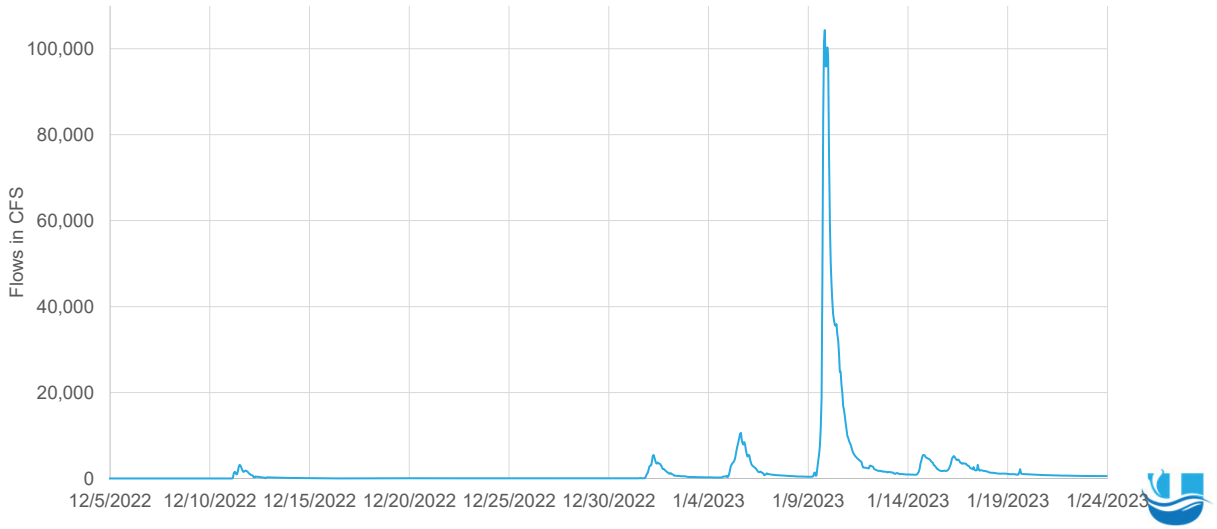
Castaic Lake


Elizabeth Canyon Creek @ 120 cfs (1/25/2023)

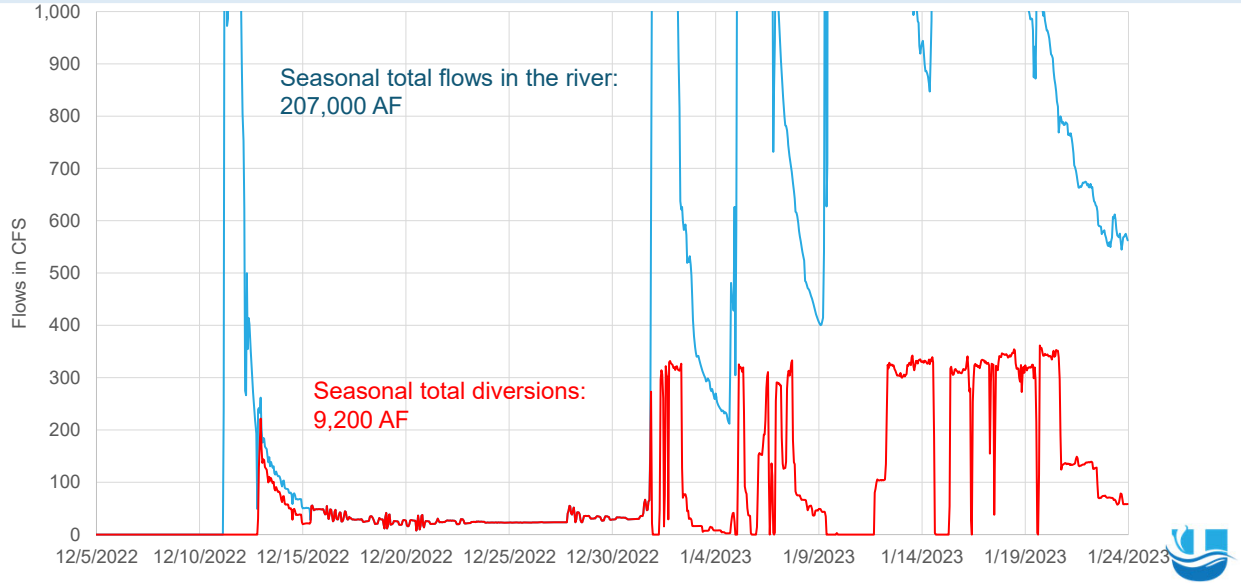
Total Flood Flows conserved for the Downstream Water Users:
Approximately 25,000 AF

Captured Stormwater at the Freeman Diversion

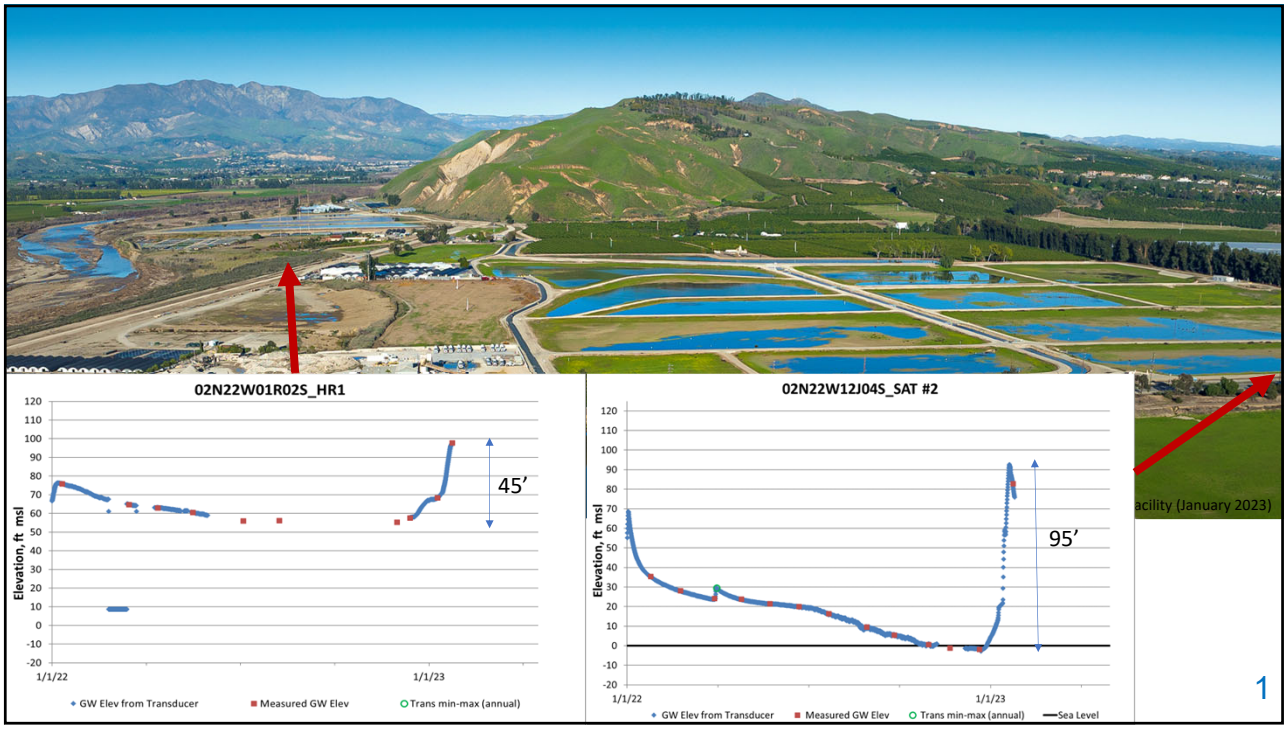
Total River at the Freeman Diversion



Total River at the Freeman Diversion

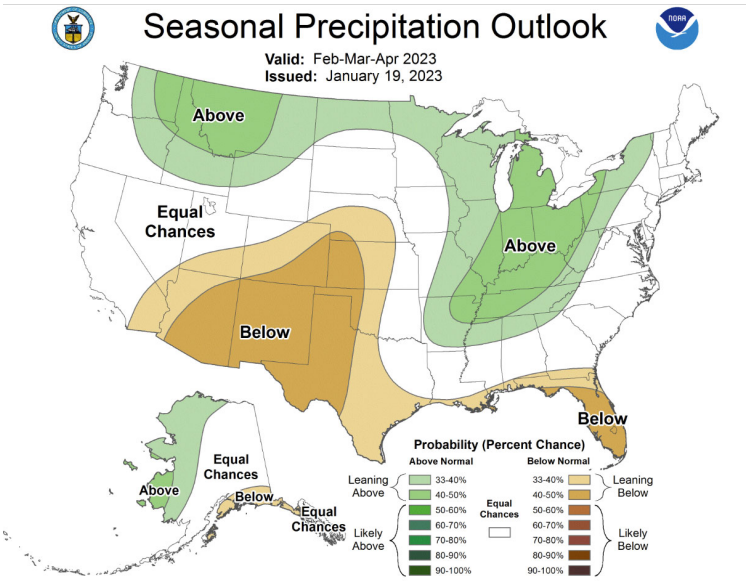


Total Recharged to Saticoy/Noble Basins
4,500 AF

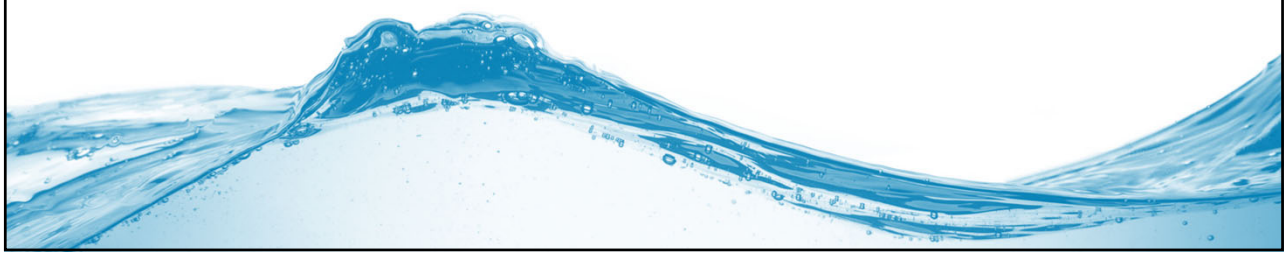


Total Recharged to El Rio
3,900 AF

THREE MONTH OUTLOOK – SEASONAL RAINFALL



QUESTIONS?



United Water CONSERVATION DISTRICT

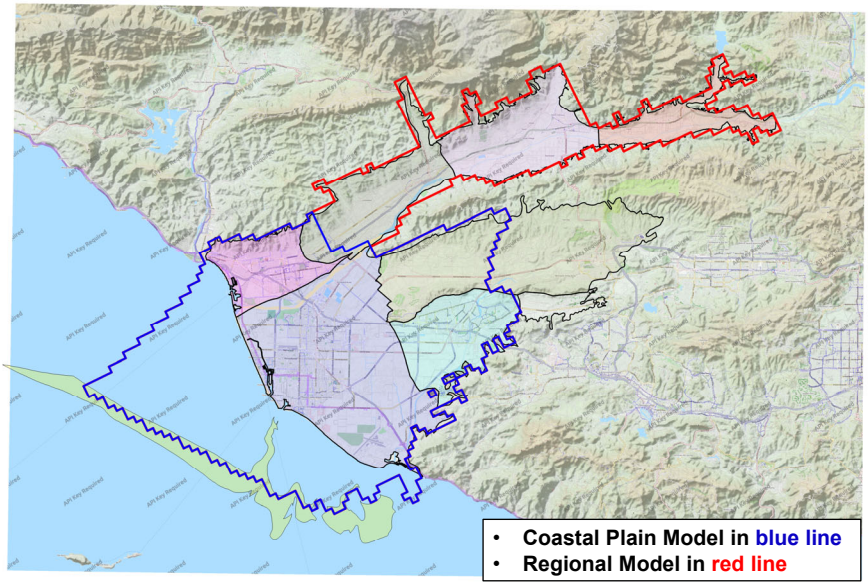
4. DEVELOPMENT OF GROUNDWATER FLOW AND SOLUTE TRANSPORT MODELING OF THE SEMI-PERCHED AQUIFER, SOUTHERN OXNARD BASIN

Presented by Jason Sun, Ph.D., P.E, Principal Hydrogeologist/Modeler

Water Resources Committee Meeting

January 31, 2023

Groundwater Model Refresher

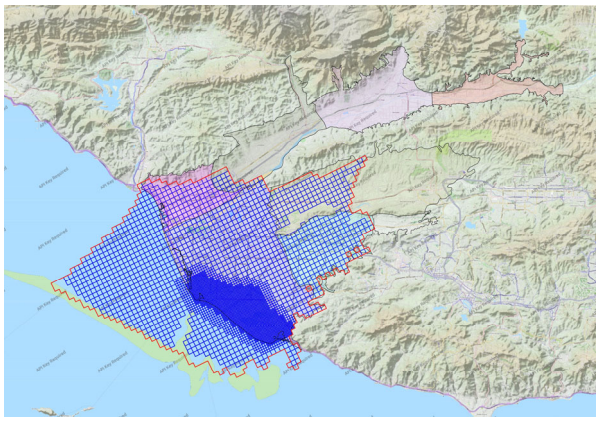


3

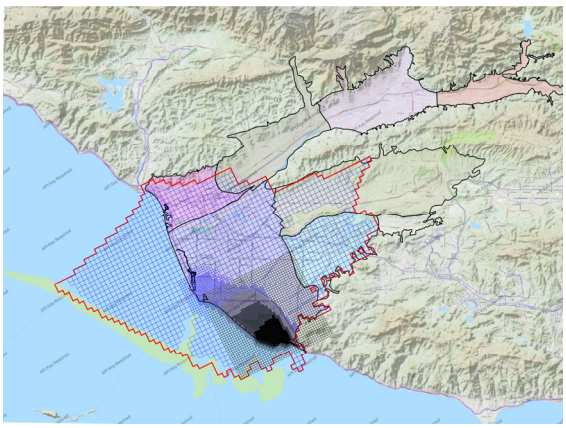
UWCD GROUNDWATER MODELS

Coastal Plain Model	Regional Model	Unstructured Grid Model
Flow (MODFLOW-NWT)	Flow (MODFLOW-NWT)	Flow + Density Dependent Transport (MODFLOW-USG-Transport)
GSPs for FCGMA	GSPs for Fillmore, Piru and Mound	Brackish water
Monthly	Daily	Monthly
1985-2019	1985-2019	1985-2019

4



USG Model (in blue) is an unstructured grid (2000, 1000, 500 ft) model based on the Coastal Plain Model to simulate seawater intrusion and the EBB water project

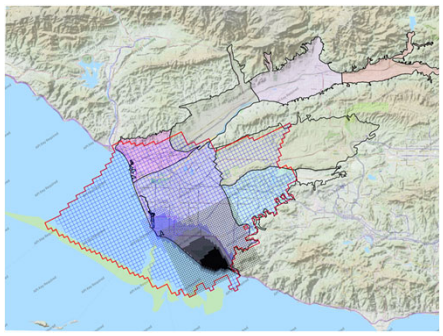


Perched Aquifer Model (PAM) in black is an unstructured grid model focused on southern Oxnard plain

5

PAM is a Locally Refined Model

- **Based on a regional model simulation**
- **Extract the output (head, salinity,…) around the zoom model as the boundary condition for the zoom model**
- **This technique is also known as**
  - **Telescopic Mesh Refinement (TMR)**
  - **Local Grid Refinement (LGR)**
- **Benefits: better resolution and shorter computation time**



6

PAM Site Characterization

- **Semi-Perched aquifer is unconfined**
- **High chloride concentration - Seawater intrusion**
- **Overlies aquitard (10-30 ft) and Oxnard aquifer (100-130 ft)**
- **Varying layer thickness from 60 to 120 ft**
- **Lagoons and Calleguas Creek**
- **The Coastal Plain model simulation shows strong horizonal flow**

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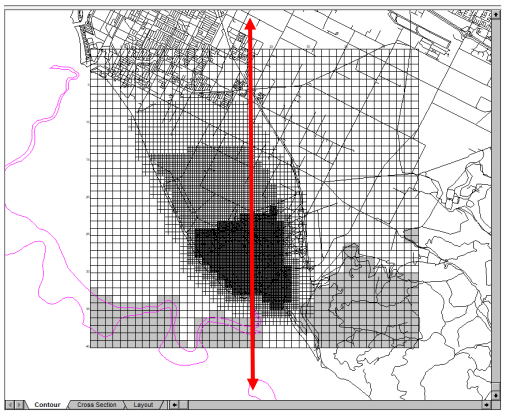
Perched Aquifer Model (PAM)

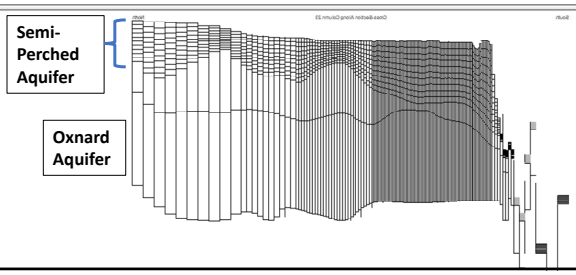
Goal:

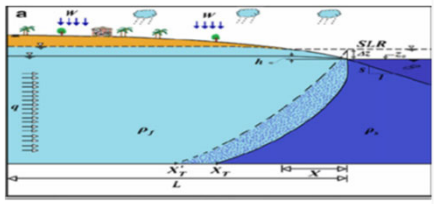
- Capture saltwater wedge in Semi-Perched aquifer
- Evaluate the potential for vertical migration of contaminants from the shallow Semi-perched aquifer to Oxnard aquifer due to EBB Water project pumping

- MODFLOW-USG
- 12 model layers:
  - Semi-perched aquifer: Layers 1 to 10
  - Aquitard : Layer 11
  - Oxnard aquifer: Layer 12
- Small Grid sizes: 125, 250, 500, and 1000 ft
- Monthly time step



Cross section below along the red line





Semi-Perched Aquifer Data Collection

- Staff (Eric Elliot) poured through the reports provided by the Navy
- Boring logs – refinement did not improve the model calibration
- Water level data from 2014 to 2018
- Salinity data from 1998 to 1999
- The data from the Semi-Perched aquifer tends to be limited

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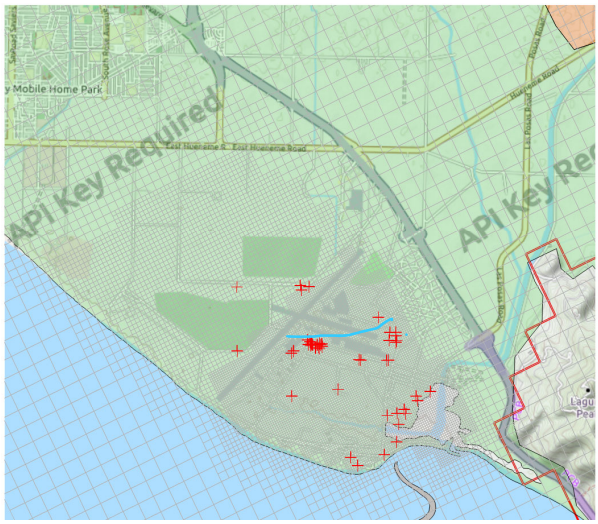
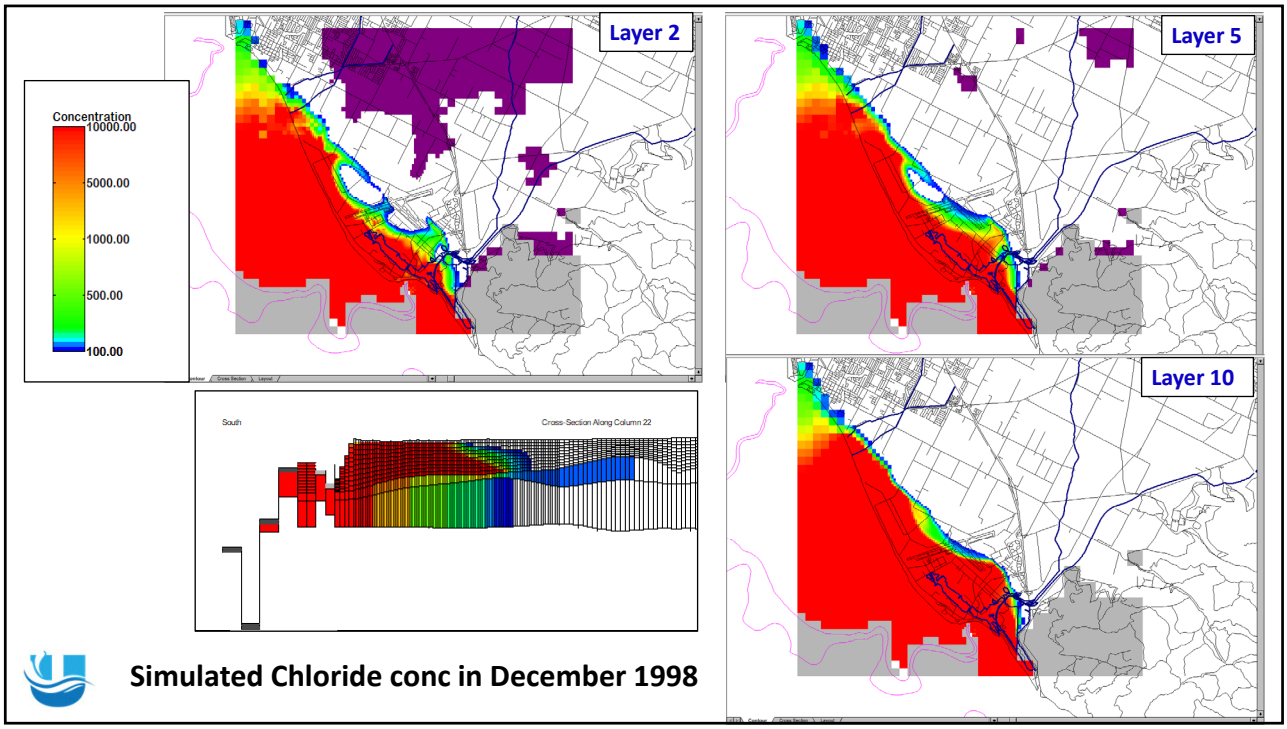
2014-2018 Water Level Data



1998-1999 Salinity Data
Suggesting the extent of saltwater wedge in blue line

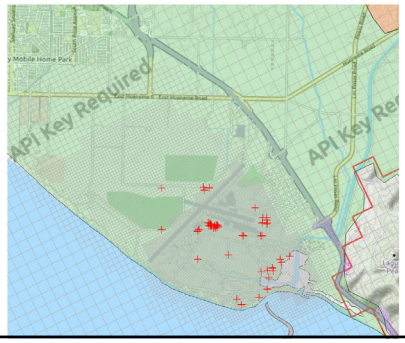
10



Simulated Chloride conc in December 1998

PAM Calibration Result

- **The water level residuals from 143 wells range from -2.3 to 4 ft with average 1.0 ft**
- **The simulated seawater wedge in 1998 is consistent with the data**



EBB Water Simulation Assumptions

- The extraction barrier wells are assumed to operate for 50 years
- The product water from the treatment plant is assumed to be 50% of the extracted water
- Project extraction rates from 3,500 to 20,000 AFY
- FCGMA GSP simulation run based on no pumping cutback (base case) is used for simulations
- 1930-1969 hydrology with 2070 climate factor adjustment is used

Scenario	Extraction rate (AFY)	Treated water for usage (AFY)	Treated water usage (AFY)			Oxnard well number	Mugu well number	Oxnard Extraction (AFY)	Mugu Extraction (AFY)
			Navy	PTP	PV				
No Action	0	0	0	0	0	0	0	0	0
Phase 1	3500	0	0	0	0	5	2	2500	1000
5K W	5000	0	0	0	0	6	4	3000	2000
5K T	5000	2500	1500	500	500	6	4	3000	2000
10K	10000	5000	1500	1750	1750	12	10	6000	4000
15K	15000	7500	1500	3000	3000	16	12	10000	5000
20K	20000	10000	1500	4250	4250	20	20	14000	6000

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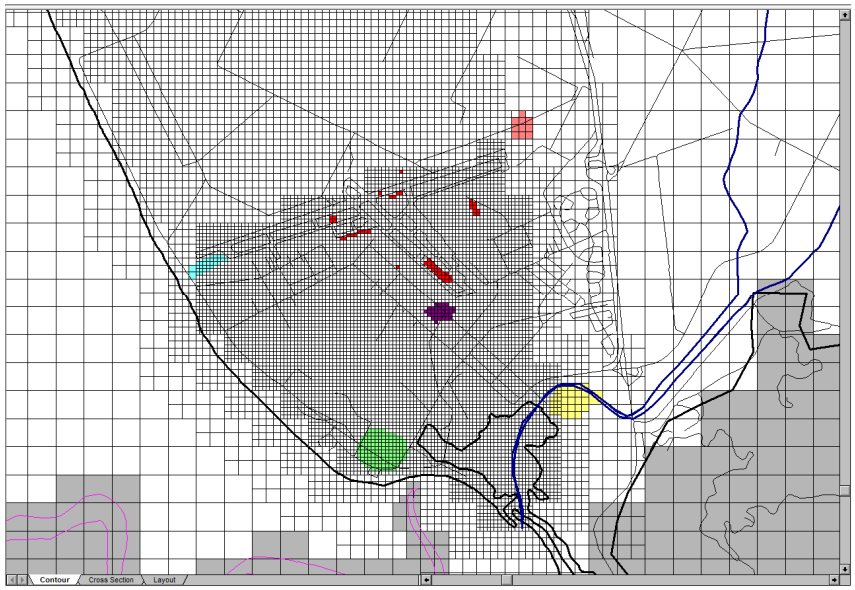
Use the extracted Phase 1 result as the boundary condition for PAM

Hypothetical sources at groundwater table or unsaturated zone

Simulate 50 years of Phase 1 pumping



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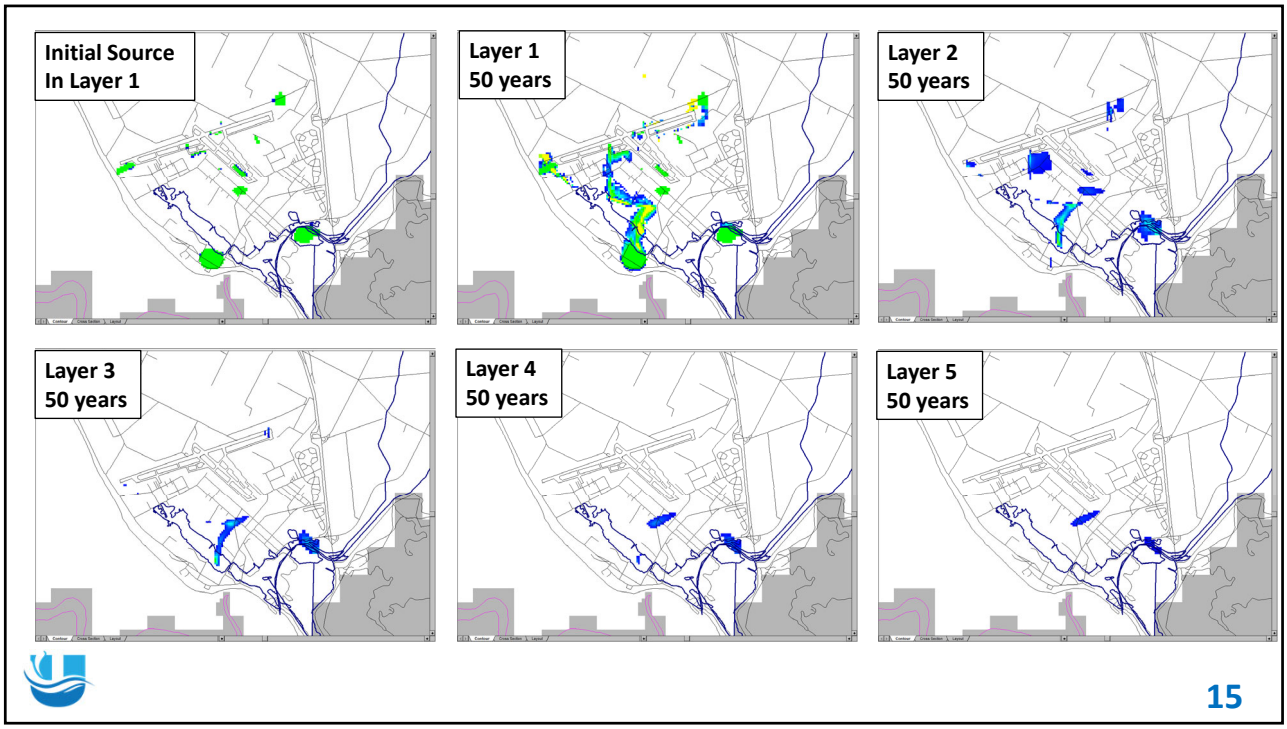
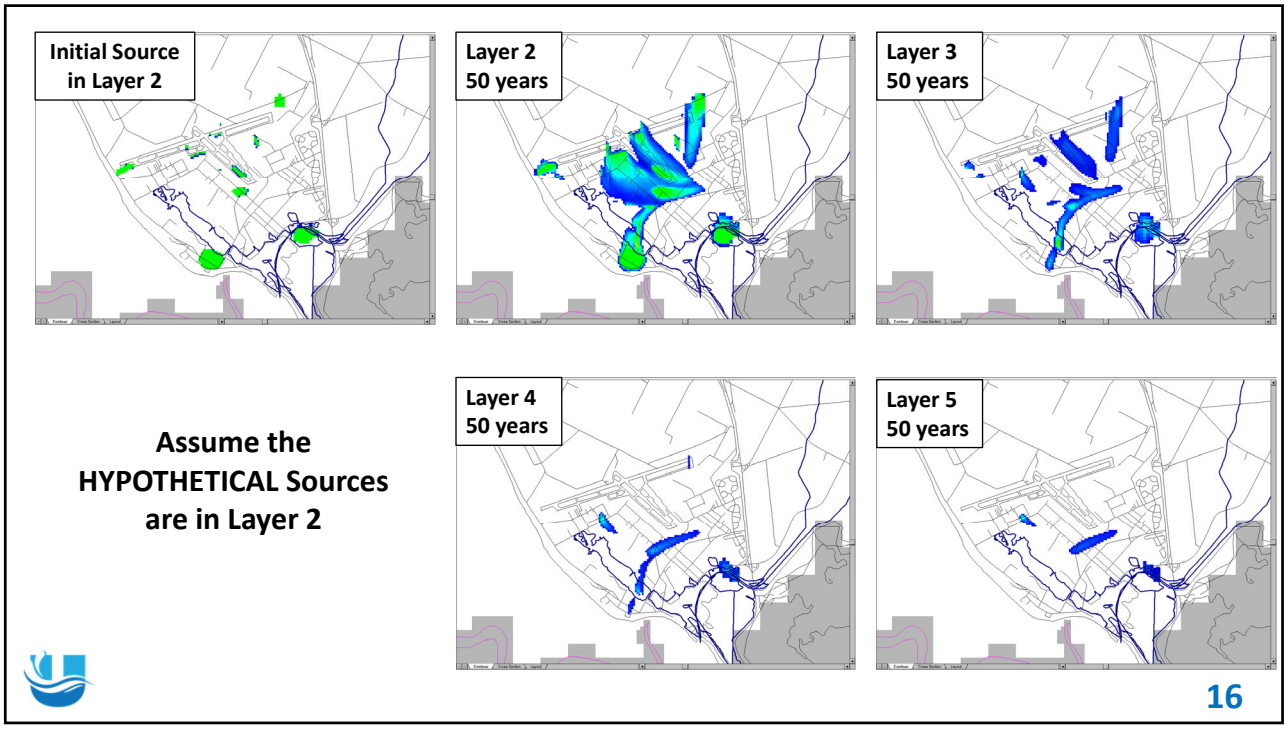
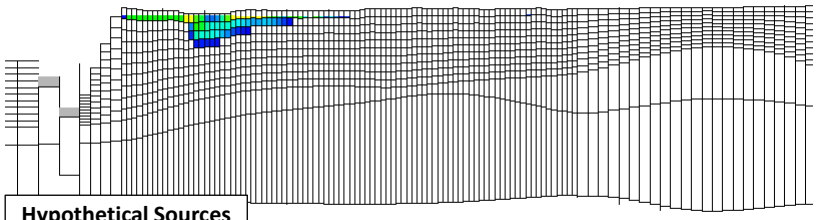

Initial Source
In Layer 1
Layer 1
50 years
Layer 2
50 years
Layer 3
50 years
Layer 4
50 years
Layer 5
50 years
15


Initial Source
in Layer 2
Layer 2
50 years
Layer 3
50 years
Assume the
HYPOTHETICAL Sources
are in Layer 2
Layer 4
50 years
Layer 5
50 years
16

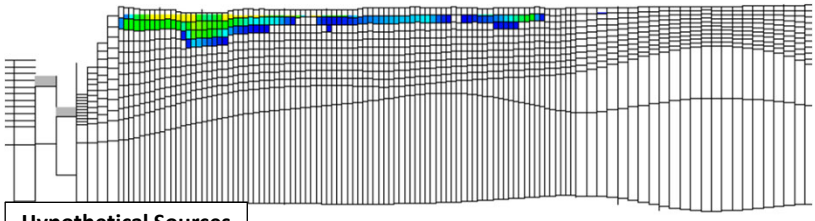
After 50 Years of EBB Water Phase 1 Pumping

Cross-Section Along Column 22



Hypothetical Sources in Layer 1

Cross-Section Along Column 22

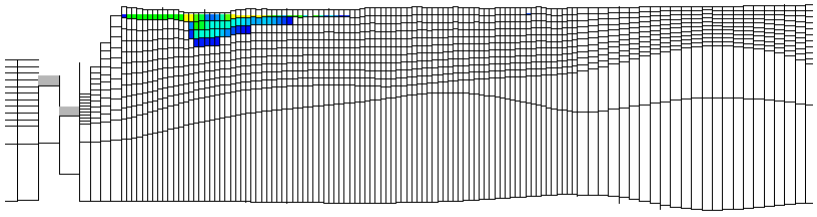


Hypothetical Sources in Layer 2

17

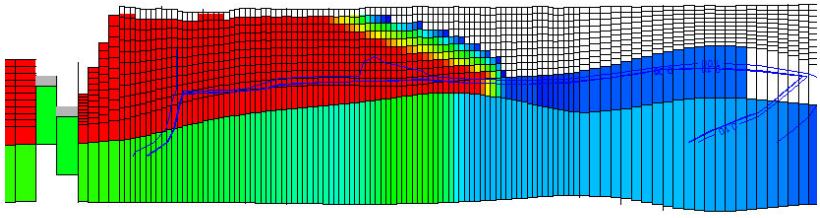
Hypothetical Sources in Layer 1

Cross-Section Along Column 22



Saltwater Wedge

Cross-Section Along Column 22



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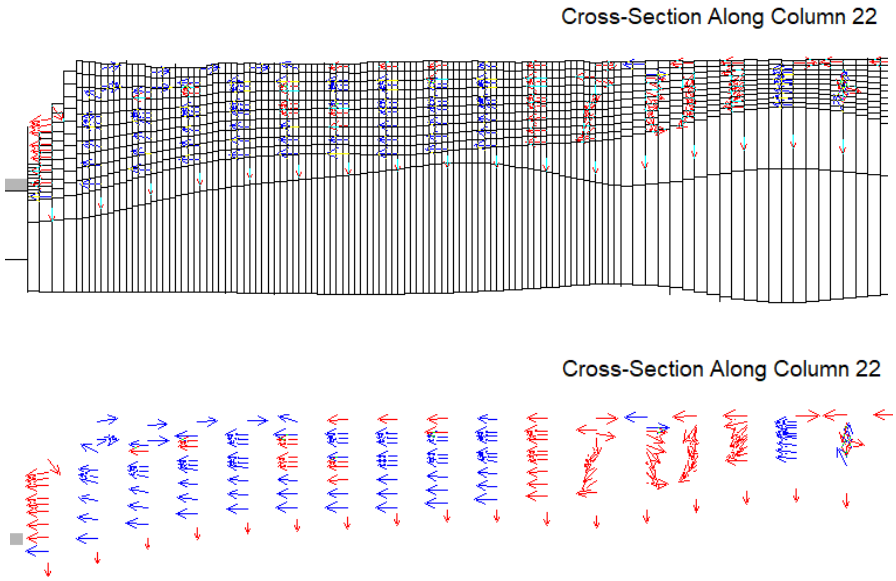
Flow Velocity in Logarithmic Scale



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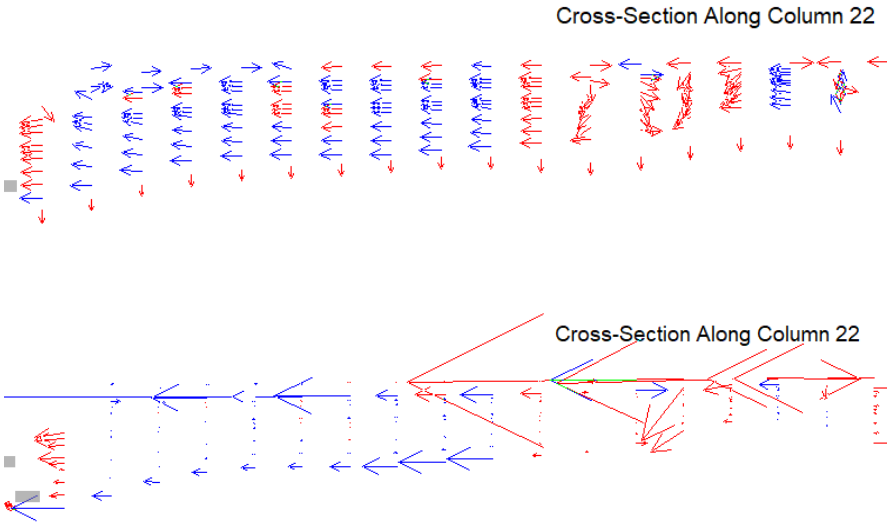
Flow Velocity in Logarithmic Scale

Flow Velocity in Normal but exaggerated Scale



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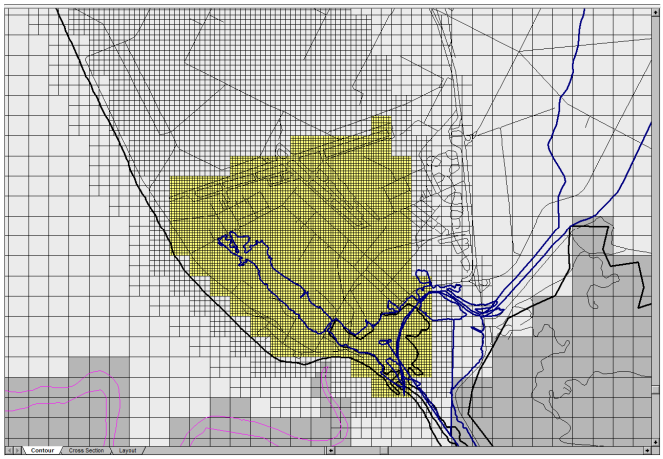
Vertical flow within the area of concern in yellow shade

Flow Direction	Vertical Flow (AF/Y)	Percentage
Layer 1 to 2	8556068	100%
Layer 2 to 3	6589865	77%
Layer 3 to 4	4791488	56%
Layer 4 to 5	3346176	39%
Layer 5 to 6	2472514	29%
Layer 6 to 7	1842087	22%
Layer 7 to 8	1504537	18%
Layer 8 to 9	905793	11%
Layer 9 to 10	487238	6%
to aquitard	1668	0%
to Oxnard	1430	0%



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Vertical Migration Results

- **The groundwater flow in the Semi-Perched aquifer is dominantly horizontal**
- **The vertical flow decreases significantly over depth in the Semi-Perched aquifer**
- **The hypothetical contaminant stays within the top 50 feet of the Semi-Perche aquifer. It does not reach the Oxnard aquifer**
- **This model simulation is HYPOTHETICAL, NOT based on an actual event**

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Ongoing/Future Modeling Works

- **Add subsidence simulation**
- **Support City of Ventura on IPR project**
- **Support FCGMA to update the GSPs**
- **Potentially support the SNMP study in Pleasant Valley basin**

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Questions/Comments

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United Water CONSERVATION DISTRICT

Staff Report

To: **Water Resources Committee**

Through: Mauricio E. Guardado, Jr., General Manager

From: Maryam Bral, Chief Engineer
Dan Detmer, Water Resources Manager

Date: **March 23, 2023 (April 4, 2023, meeting)**

Agenda Item: **5. Monthly Water Resources Department Report and update on Activities of local Groundwater Sustainability Agencies (GSAs)**
Information Item

Staff Recommendation:
The Committee will receive a summary report on various Water Resources Department activities for the month of March 2023, including a summary of the monthly activities of the three local Groundwater Sustainability Agencies (Fox Canyon Groundwater Management Agency, Fillmore and Piru Basins GSA, and Mound Basin GSA), for which District board members serve as member directors, and the Santa Paula basin (adjudicated) Technical Advisory Committee, for which District staff serve as members. Staff may also report on state-wide issues related to the implementation of the Sustainable Groundwater Management Act (SGMA) of 2014.

Discussion:

Staff Activities

In addition to the Department's routine, ongoing groundwater monitoring and reporting programs and its support of Groundwater Sustainability Agencies (summarized below), notable efforts and activities conducted by staff during the past month included the following:

- United's hydrologists are actively monitoring gaging locations to assess flow conditions along the Santa Clara River and major tributaries, and to update rating curves in response to changing channel conditions and morphology.
- United's hydrologists are assisting other District staff with operational decisions at Freeman Diversion in order to manage problems with sediment accumulation near the intake structure, maximize diversions, and comply with regulative requirements to provide opportunity for fish migration and passage.

- United's hydrologists are assisting other District staff to assess and comply with *O. mykiss* migration release requirements at Santa Felicia Dam and bypass flows at Freeman Diversion.
- United's hydrologists are coordinating the release to captured stormwater from Castaic Lake to the Downstream Users.
- Staff is coordinating with recharge operators at Saticoy to measure percolation rates in individual basins and then dry and disc the basins when necessary to maintain optimum percolation rates for the facility.
- Staff conducted the "spring high" groundwater elevation monitoring run in mid-March, in support of the GSAs and statewide measurements of water levels as requested by DWR.
- Groundwater Modeling:
    - Staff continue to develop a break-out Perched Aquifer Model (PAM) for groundwater flow in the unconfined Semi-perched aquifer in the Extraction Barrier and Brackish (EBB) Water Treatment Project study area. The break-out model will allow higher resolution (both horizontally and vertically) forecasting of groundwater flow in the study area. The model will allow simulation of solute transport in the unconfined perched aquifer, including the inland extent of the natural seawater density wedge at the base of the aquifer near the coastline.
    - Staff continued to apply MODFLOW's "Subsidence package" to the District's existing groundwater flow model of the OPV basins to forecast potential occurrence and magnitude of land subsidence during the model calibration period (1985-2019) and under future assumed pumping scenarios and basin conditions.
    - Staff have begun engaging with Larry Walker Associates, the consultant who is developing the updated salt and nutrient management plan (SNMP) for Pleasant Valley basin, in anticipation of conducting limited groundwater modeling in support of SNMP preparation.
    - Staff have assisted the City of Ventura and their consultant in modeling travel times and areas of influence for their proposed indirect potable reuse project located near their Golf Course wells in the NW portion of the Oxnard basin.
- Staff are assisting the Environmental Services and Engineering Departments in evaluating fish passage design modifications under consideration for United's Habitat Conservation Plan (HCP), including assisting with planning of physical modeling efforts at the Bureau of Reclamation's facility in Denver and at the University of Iowa.
- Staff are working with the Environmental Services and Engineering Departments to kick off and schedule work and deliverables with the consultants selected to conduct the environmental permitting and engineering design efforts for Phase 1 of United's EBB Water Treatment Project. Staff participated in a permitting charette on February 28 and March 1 with Navy representatives and our consultants.
    - Staff continue to support selection of site locations and design specifications for extraction wells to be included as Phase 1 of the EBB Water Treatment Project.

- Staff continue to plan for installation of EBB Water Treatment Project Phase 1 groundwater monitoring wells and are managing the SGM Grant activities associated with this project. A request for qualifications and proposals (RFP/Q) was released on March 10 for a consultant to assist with construction oversight of the monitoring wells; statements of qualifications and proposals are due to be submitted by April 24, 2023.
- Staff are developing a monitoring plan for Phase 1 of EBB Water (extraction of brackish water and discharge without treatment), to measure and evaluate potential effects on groundwater elevations, hydraulic gradients, and groundwater quality in the project area. The information collected will be used to adjust operations of Phase 1 (if necessary) and provide data to support optimization of design of Phase 2.

- Staff are assisting the Engineering Department in evaluating the feasibility and water resources impacts of releasing water from Lake Piru and operating at lower reservoir levels as an Interim Risk Reduction Measure prior to and during the construction of the new outlet works. During construction, unprecedented low reservoir levels in the range of elevations 940-945 are needed to be able to build the new multi-port slopping intake and a tunnel.
- Staff continue to assist with planning and coordination for the purchase and release of Table A water and supplemental State Water Project (SWP) water acquired from other SWP contractors. Staff are also working to determine what modifications to United's water right permits and licenses might be required to increase the instantaneous diversion rate at Freeman Diversion.
- Staff assisted the Engineering Department with development of specifications for planned OH replacement well #20.
- Staff are assisting the Finance Department in preparing reports required by the FCGMA for surface water (from the Santa Clara River) use by the PTP and by PVCWD, deliveries of groundwater to the OH pipeline for M&I use, and deliveries of groundwater and surface water to the PTP for agricultural use. These reports cover water years 2021 and 2022. These are new reports required under the FCGMA's OPV allocation ordinance.

Outreach and Educational Activities

- Staff led a tour of Freeman Diversion and United's recharge facilities for local water users on March 23.

Fox Canyon Groundwater Management Agency (FCGMA)

Staff continue to monitor and, where appropriate, participate in the FCGMA's groundwater sustainability planning and implementation efforts in the Oxnard, Pleasant Valley, and Las Posas Valley basins. United staff continue to meet periodically with FCGMA staff and other stakeholders to develop analyses of benefits and impacts of water-supply projects and different variations of those projects in support of developing a sustainable, resilient water-supply portfolio for the service areas of both agencies. United staff also attended and, where appropriate, contributed to, FCGMA Board and Committee meetings, as follows:

Board of Directors meetings – The FCGMA Board held a regular meeting on March 22. Notable topics included:

- The Board approved (as an item in the Consent Agenda) submittal to DWR of the Water Year 2022 Annual Reports for the Oxnard, Pleasant Valley, and Las Posas Valley basins, prepared by FCGMA's consultant, Dudek.
- The Board retained the Chair (West), Vice-Chair (Borchard), and committee members (no changes from last year).
- The Board approved the revised mission statement proposed by their Executive Committee.
- The Board received a presentation on the general terms of the Las Posas Valley Basin Adjudication Phase 3 Settlement Agreement and preliminary planning for implementation should it be adopted, in whole or in part, as part of the Las Posas Valley Basin Adjudication judgment.
- The Board approved waiving surcharges incurred by those owners/operators in the Las Posas Valley (LPV) Basin with pending variance applications for Water Year 2021/22 (October 1, 2021, through September 30, 2022).
- The Board authorized their Executive Officer to continue temporary variances for the current water year for those agricultural operators in the Oxnard and Pleasant Valley Basins ("OPV Basins") with pending variances up to the amount of extractions which did not incur surcharges in Crop Year 2017/18. The Board also authorized their Executive Officer to approve temporary variances for the current water year for those M&I and domestic operators in the OPV Basins with pending variances up to the amount of extractions that did not incur surcharges in calendar year 2018.
- Received a presentation from Agency staff regarding the Operations Committee's recommendations for process and criteria for ranking and prioritizing water-supply projects for funding and inclusion in Groundwater Sustainability Plans. The Board directed the Operations Committee to consider modifying the draft criteria in response to comments received.

The next regular Board meeting is scheduled for April 26 at 1:30 p.m.

Operations Committee meetings – None were held last month. There is an Operations Committee meeting tentatively scheduled for April 3, 2023 at 2:00 pm.

Executive Committee meetings – None were held last month.

Fiscal Committee meetings – None were held last month.

OPV Variance Review Committee meeting – None were held last month.

Ad Hoc OPV Projects Committee meetings – None were held last month.

Fillmore and Piru Basins Groundwater Sustainability Agency (FPBGSA)

Staff continue to participate in FPBGSA activities supporting SGMA compliance and GSP preparation for the Fillmore and Piru basins, as follows:

Board of Directors meetings – The regular FPBGSA Board meeting scheduled for March 16 was canceled, and the next regular Board meeting will be on April 20 at 4:00 p.m.

GSP implementation – None this month, following assistance with the grant application for SGM implementation Round 2 funding in December 2022.

Data Resources - A web-based data management and mapping system that includes well construction information and available water level and water quality records for wells within the Piru and Fillmore basins remains available on the agency website, as are numerous technical references relating to the basins and development of the GSPs. Staff recently shared fall water level records with agency consultant DBS&A for formatting and upload to the agency website and to DWR.

Mound Basin Groundwater Sustainability Agency (MBGSA)

Staff continue to participate in MBGSA activities supporting SGMA compliance and GSP implementation for the Mound basin, as follows:

Board of Directors meetings – The MBGSA held a regular Board meeting on March 21. Notable topics included:

- The Board accepted United's appointment of Catherine P. Keeling as United's member Director to the Mound Basin GSA Board of Directors to fulfill the remainder of the two-year term through June 13, 2024. The Board also appointed the following officers to serve during calendar year 2023:
    - Chair: Catherine Keeling
    - Vice Chair/Secretary: Betsy Cooper
    - Treasurer: Arne Anselm.
- The Board authorized Mound Basin GSA's participation in the Small Groundwater Sustainability Agency Coalition.
- The Board approved the Water Year 2021/2022 Annual Report for submittal to DWR.

GSP implementation – Staff provide the MBGSA's Executive Director and consultants various groundwater level and quality data periodically, as requested. Staff are also monitoring pressure transducers to monitor groundwater levels at selected wells in support of data collection efforts being conducted in support of the Mound Basin GSP.

Santa Paula Basin Technical Advisory Committee (TAC)

Staff continue to participate in the Santa Paula basin TAC in support of the Santa Paula Basin Judgment and in conformance with SGMA reporting requirements for adjudicated basins, as follows:

- Staff worked with the TAC to finalize the 2021 Annual Report of groundwater conditions within the Santa Paula Basin adjudicated area. The report was submitted electronically using DWR's website for adjudicated basins, and forwarded to Brownstein Hyatt Farber Schreck, LLP, for filing with the Superior Court of the State of California for Ventura County.