

AGENDA
WATER RESOURCES COMMITTEE
Tuesday, May 31, 2022, at 9:00 a.m.
UNITED WATER CONSERVATION DISTRICT
Boardroom, 1701 N. Lombard Street, Oxnard CA 93030

OPEN SESSION:

- 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 March 1, 2022.
- 3. Urban Water Management Plan update, Oxnard Hueneme System** (10 minutes: Dr. Hanson)
Receive a presentation titled: *"Updates on the Oxnard Hueneme Pipeline System's Urban Water Management Plan DWR Review and Annual Assessment Reporting Response to Executive Order N-7-22"*
- 4. Water Resources Department Update** (10 minutes: Mr. Detmer)
Staff will provide an update to the Committee on recent Water Resources Department activities and projects, and provide a brief update on hydrologic conditions in the District.
- 5. Groundwater Sustainability Agencies Update** (10 minutes: Mr. Detmer)
The Committee will receive 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
Lynn E. Maulhardt
Edwin T. McFadden III

Staff:

Mauricio E. Guardado, Jr.	Dr. Maryam Bral
Dan Detmer	Eric Elliott
Dr. Zachary Hanson	Kathleen Kuepper
John Lindquist	Murray McEachron
Dr. Bram Sercu	Dr. Jason Sun

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Approved: 
Mauricio E. Guardado, Jr. General Manager


Dr. Maryam Bral, Chief Engineer

Posted: (date) May 25, 2022

(time) 4:45 p.m.

(attest) *Destiny Rubio*

At: UWCD Headquarters, 1701 N. Lombard Street, Oxnard, CA 93030

Posted: (date) May 25, 2022

(time) 5:00 p.m.

(attest) *Destiny Rubio*

At: www.unitedwater.org

MINUTES
WATER RESOURCES COMMITTEE
Tuesday, March 1, 2022, at 9 a.m.
UNITED WATER CONSERVATION DISTRICT
Boardroom, 1701 N. Lombard Street, Oxnard CA 93030

Committee Members Present:

Chair Daniel Naumann
Director Maulhardt
Director McFadden

Staff Present:

Mauricio Guardado, Jr., general manager
Anthony Emmert, assistant general manager
Dan Detmer, water resources manager
Dr. Zachary Hanson, hydrogeologist
Kathleen Kuepper, hydrogeologist
John Lindquist, senior hydrogeologist
Murray McEachron, principal hydrologist
Josh Perez, chief human resources officer
Zachary Plummer, technology systems manager
Bram Sercu, senior hydrologist
Daryl Smith, controller
Jason Sun, principal hydrogeologist – modeler

Public Present: (see attached)

Sam Collie, OPV Coalition
Tony Morgan, DBS&A
Betsy Cooper, Ventura Water

OPEN SESSION: 9:01 a.m.

Chair Naumann called the Water Resources Committee Meeting to order at 9:01 a.m.

1. Public Comment

Chair Naumann asked if there were any public comments for the Water Resources Committee. None were offered.

2. Approval of Minutes - Motion

Motion to approve the January 4, 2022, Water Resources Committee meeting minutes, Director McFadden; Second, Director Maulhardt. Voice vote: three ayes (Maulhardt, McFadden and Naumann); none opposed; motion carries 3/0.

3. A Path to Achieving Water-Supply Sustainability in the OPV Basins (see attached slides)

Senior Hydrogeologist John Lindquist made a presentation on achieving water sustainability in the Oxnard and Pleasant Valley (OPV) Basins. This presentation was also delivered to the Fox Canyon Groundwater Management Agency (FCGMA) at their February 23 Board of Directors Meeting.



He explained how basin needs will be met by 2030 and how it can be done without implementing painful impacts such as reduced pumping, all while improving water quality and resilience.

Director McFadden asked how well the presentation was received by FCGMA. Mr. Lindquist stated that Director Gene West has requested staff return with updates, and also asked for presentations from other project proponents. Director Maulhardt stated that many attendees were pleased with United's presentation.

General Manager Mauricio E. Guardado, Jr. emphasized that work is being conducted across the region. He believes that money should be directed towards funding projects that identify solutions, rather than legal attorney fees to help identify what are the problems. He added, local water managers should work collectively to help achieve these targets. Chair Naumann stated that he and Mr. Lindquist have been invited to present these updates to the City of Camarillo.

4. Santa Paula Basin Annual Report for 2020 (see attached slides)

Hydrogeologist Kathleen Kuepper made a presentation updating the Committee of the Santa Paula Basin (SP Basin) annual report. She stated that the SP Basin is adjudicated and managed differently than basins with GSPs. Ms. Kuepper highlighted aspects of the water budget and presented future simulated water levels for two wells which include the Department of Water Resources (DWR) climate change scenarios.

Director Maulhardt asked if there is a better way to track the historical groundwater extractions data, potentially considering farm acreage changes, changing cropping patterns, and periods when agricultural land is fallowed. Water Resources Manager, Dan Detmer stated acreage data is collected through United's semi-annual pumping statements. Director Maulhardt suggested that staff evaluate existing data points and identify if additional points are required for better analysis. Mr. Guardado, Jr. stated that he will work with Water Resources staff to identify a few options.

5. Update on ongoing Groundwater Model Development Tasks (see attached slides)

Principal Hydrogeologist – Modeler Dr. Jason Sun addressed the Committee, presenting updates on ongoing Groundwater Model development tasks. Director Maulhardt asked if vertical leakage is a direct result of well casing failures or if it is caused by natural geography. Dr. Sun stated that vertical flow simulated by the model is related to natural geological structures and vertical pressure gradients. He explained that leakage related to wells screened across multiple aquifers also occurs. Dr. Sun explained that thinning of the aquitards between the aquifers allows brackish water to leak down to deeper aquifers in specific areas.

Director Maulhardt stated that upstream (areas north of the coast) pumping patterns cause a drop in pressure which have direct effects near the coast. The modeling supports the concept that even if we are not in a drought, we are now able to address the downgradient depression so that the flow direction is not upstream. Mr. Detmer agreed that the proposed extraction barrier addresses those issues. He added, Oxnard and Mugu are the main targets for the Extraction Barrier and Brackish Water Treatment (EBB Water) Project. Staff is considering some extraction from the Fox Canyon aquifer as well.

Dr. Sun also described his initial efforts to develop a break-out model for the Semi-perched aquifer in the EBB Water Project area. A layered model will be developed, allowing simulation of the seawater density wedge at the base of the aquifer, and lateral and vertical flow within the aquifer.



6. Water Resources Department Update

Mr. Detmer provided updates on the recent department activities including progress on EBB Water Project. He stated that staff recently traveled to Iowa for the Vertical Slot physical modeling effort. He also stated that Dr. Hanson, Dr. Sercu, and Mr. Lindquist were utilizing Dr. Sun's modeling tools for basin optimization efforts.

Chair Naumann acknowledged Betsy Cooper's attendance in the audience and stated that United is available to share information to the City of Ventura's Water Commission if or when Susan Rungren (General Manager of Ventura Water) would like.

7. Groundwater Sustainability Agencies Update

Mr. Detmer provided updates on GSA activities for the Fillmore and Piru Basins, Mound Basin and FCGMA (Oxnard, Pleasant Valley and Las Posas Valley basins). He stated that staff is working to get a license in place with the Navy for the work that will be authorized under the SGM Grant for EBB Water.

Mr. Detmer explained that United has modeled the pumping of Recycled Water Pumping Allocations (RWPAs) as requested by the City of Oxnard. The FCGMA has a Resolution that conditions when RWPAs can be used. Director Maulhardt stated that he was one of the key voices in charge of the FCGMA policy for the pump back allocations. He emphasized that the right to pump back is only appropriate when basin conditions are right, and he explained that there was never an intention for a sunset process for the pumping allocations. Director Maulhardt stated that there might have been misinterpretation of the Resolution and he recommended staff go back and review the rules. Mr. Detmer stated he would do so and report back on the issue.

The committee members recommended staff to present updates on achieving water sustainability in the OPV Basins, updates on groundwater flow model development, and a few visuals from the SP Basin annual report, at the March 9 Board Meeting.

FUTURE AGENDA ITEMS

Committee members offered no suggestions

ADJOURNMENT

Chair Naumann adjourned the meeting at 11:23 am.

I certify that the above is a true and correct copy of the minutes of the Water Resources Committee Meeting of March 1, 2022.

ATTEST: _____
Daniel Naumann, Chair



Board of Directors
Bruce E. Dandy, President
Sheldon G. Berger, Vice President
Lynn E. Maulhardt, Secretary/Treasurer
Mohammed A. Hasan
Edwin T. McFadden III
Michael W. Mobley
Daniel C. Naumann

General Manager
Mauricio E. Guardado, Jr.

Legal Counsel
David D. Boyer

ATTENDANCE LIST

MEETING DATE: Tuesday, March 1, 2022 at 9:00 am

MEETING: UWCD Water Resources Committee Meeting


The signing or registering of your name on this sign-up form is not required but is voluntary. All persons may attend the meetings of the Board of Directors of United Water Conservation District without signing or registering their names on this form.

Name (Please Print)

Representing


Tony Morabian
Sam Collie

DRSEA
OPV Coalition

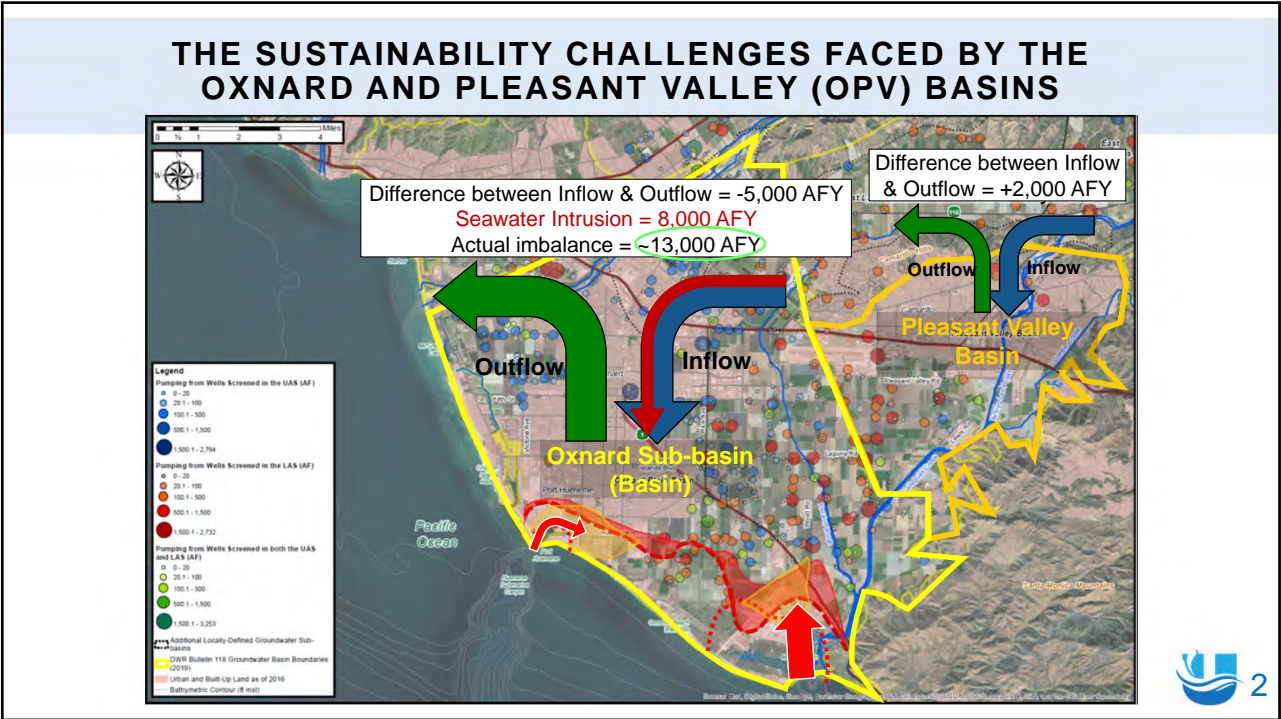


A Path to Achieving Water-Supply Sustainability in the OPV Basins before 2030, without Rampdowns

Presented by John Lindquist, Senior Hydrogeologist
Water Resources Committee Meeting
March 1, 2022




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MAIN POINTS OF THIS PRESENTATION




Expansion of existing proven sources

+




New supplies proposed by stakeholders


=




“Balanced” pumping and recharge before 2030



Seawater intrusion can be contained, and even reversed

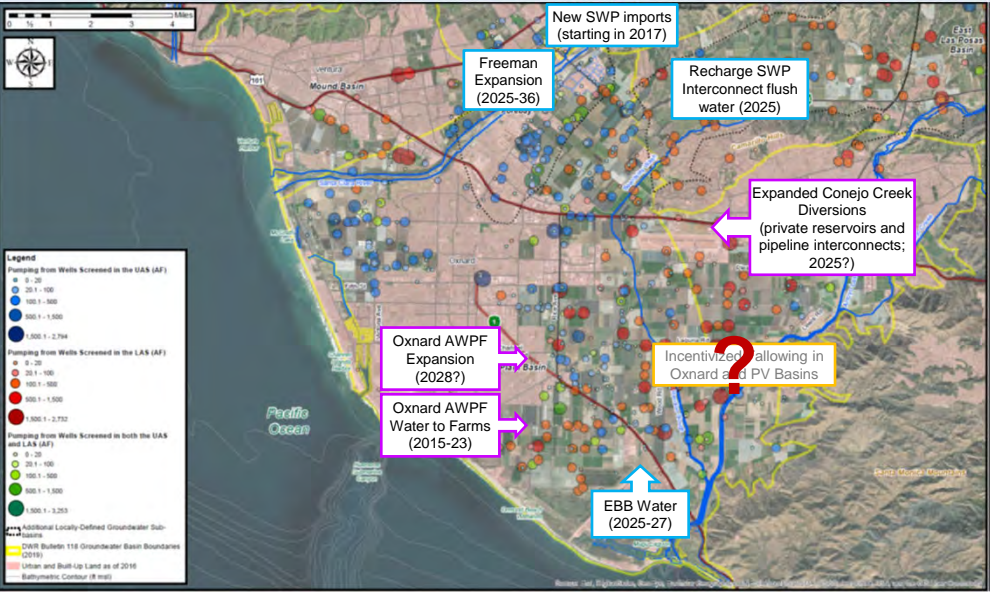



Proposed projects have additional benefits



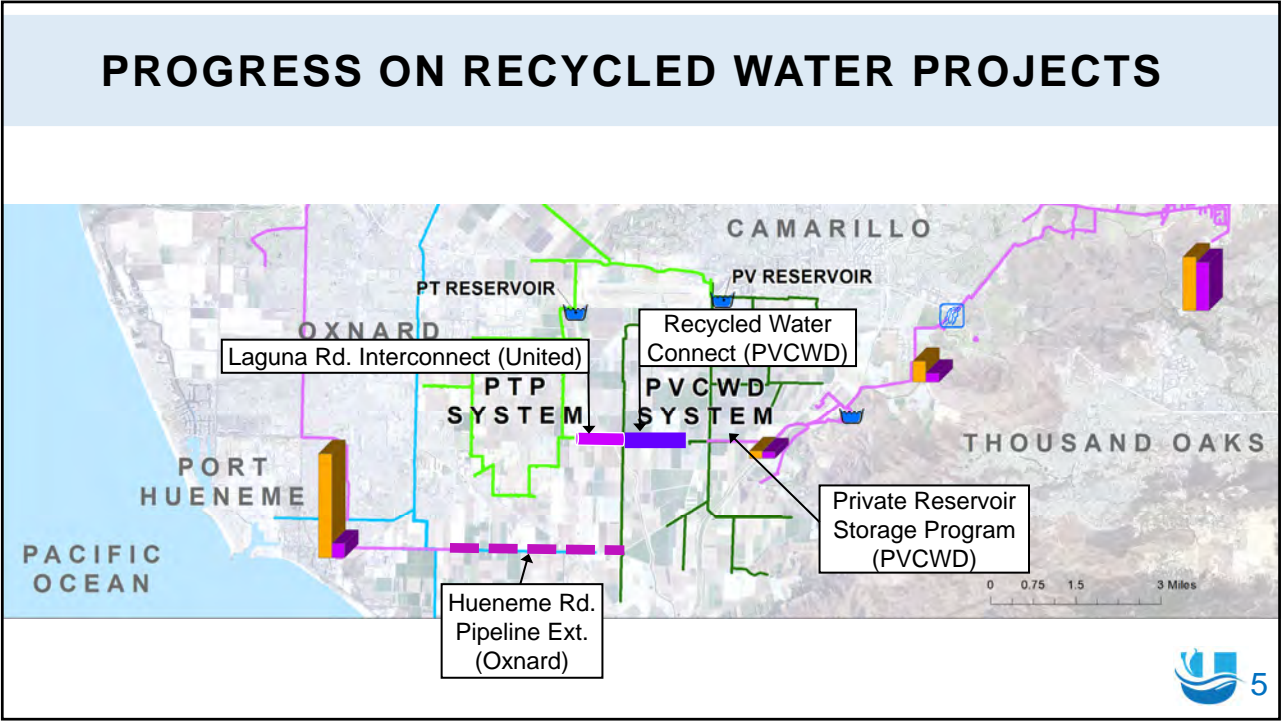
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PROJECTS PROPOSED TO ACHIEVE BALANCE BETWEEN DISCHARGE AND RECHARGE (SUPPLY AND DEMAND)





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RECENT EXTRA SWP IMPORTS IN RECENT YEARS
(WE'VE EXCEEDED OUR 6,000 AFY TARGET!)

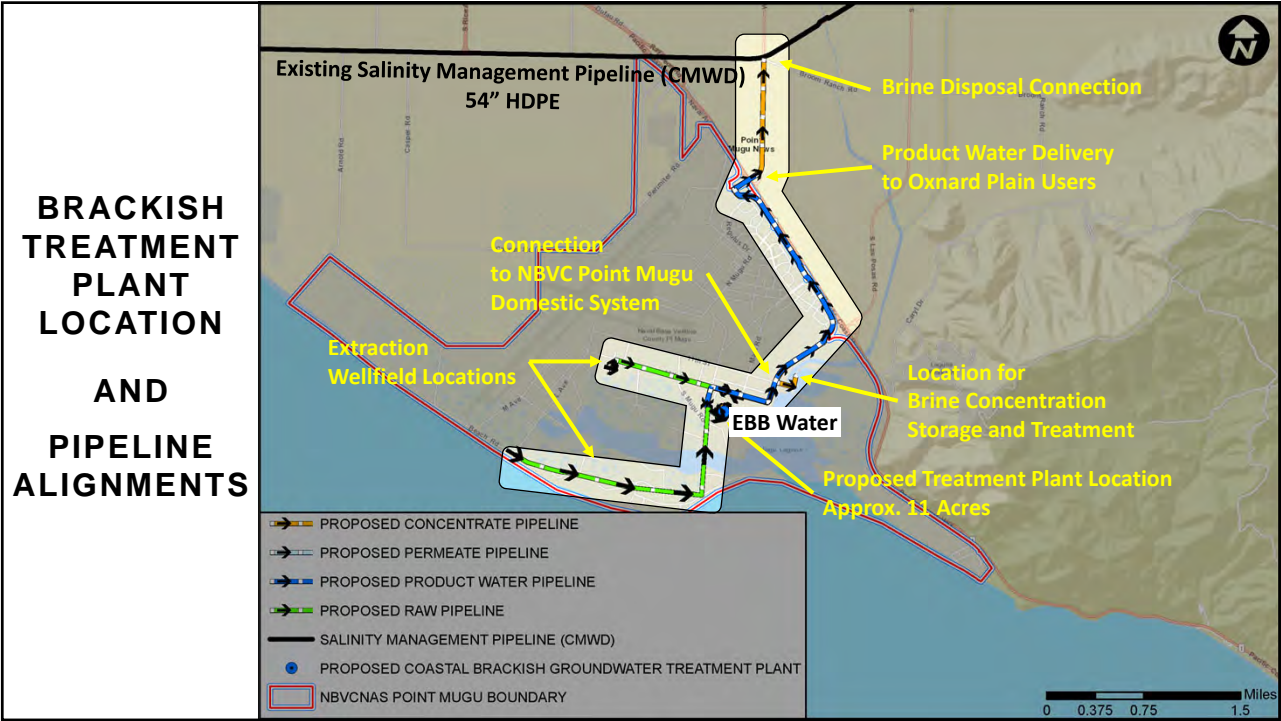
Recent Purchases, Exchanges, and Transfers of State Water			
Year	Volume AF	Type	Partner
2017	10,000	Art 21	
2017	2,678	Table A	
2018	1,103	Table A	
2019	15,000	Art 21	FCGMA
2019	1,000	Exchange	SCVWA
2019	2,362	Table A	
2020	5,625	Transfer	Ventura
2020	788	Table A	
2021	2,362	Transfer	Casitas
2021	1,263	Transfer	Casitas/Ventura
Total	44,071 AF	(~25,000 AF "extra" 2019-21)	

Focused on increasing recharge at Saticoy and El Rio

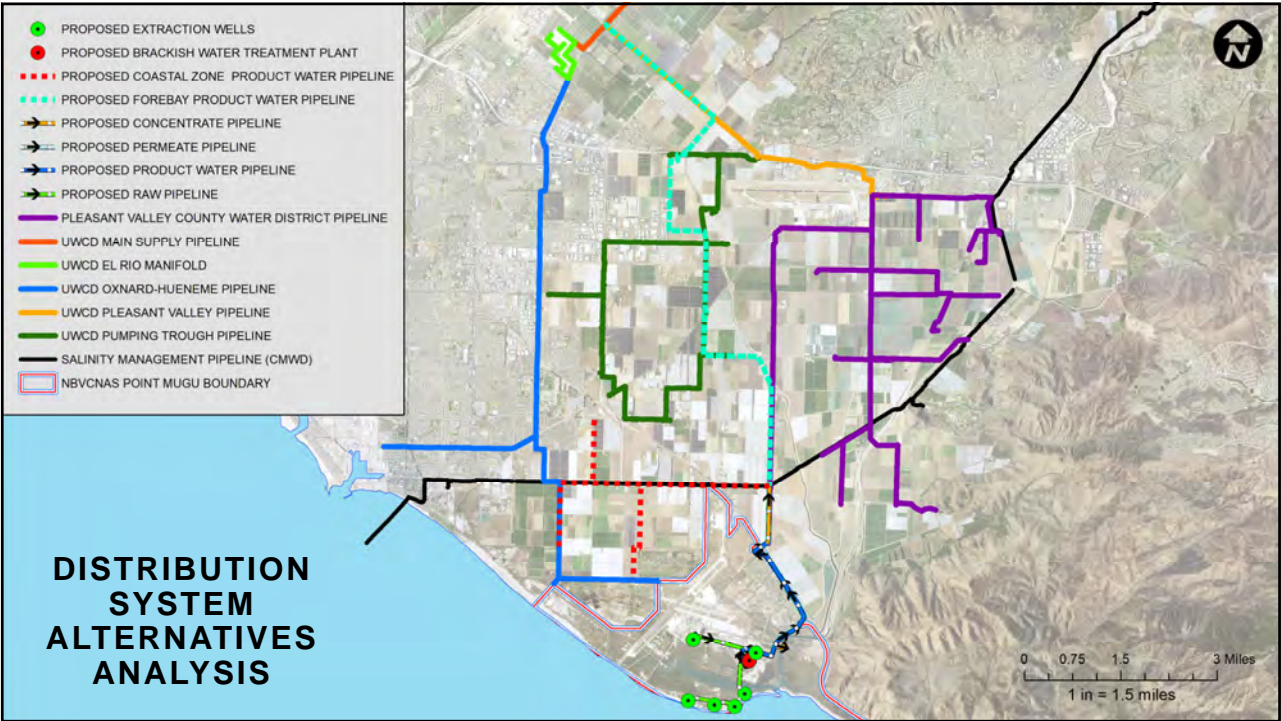
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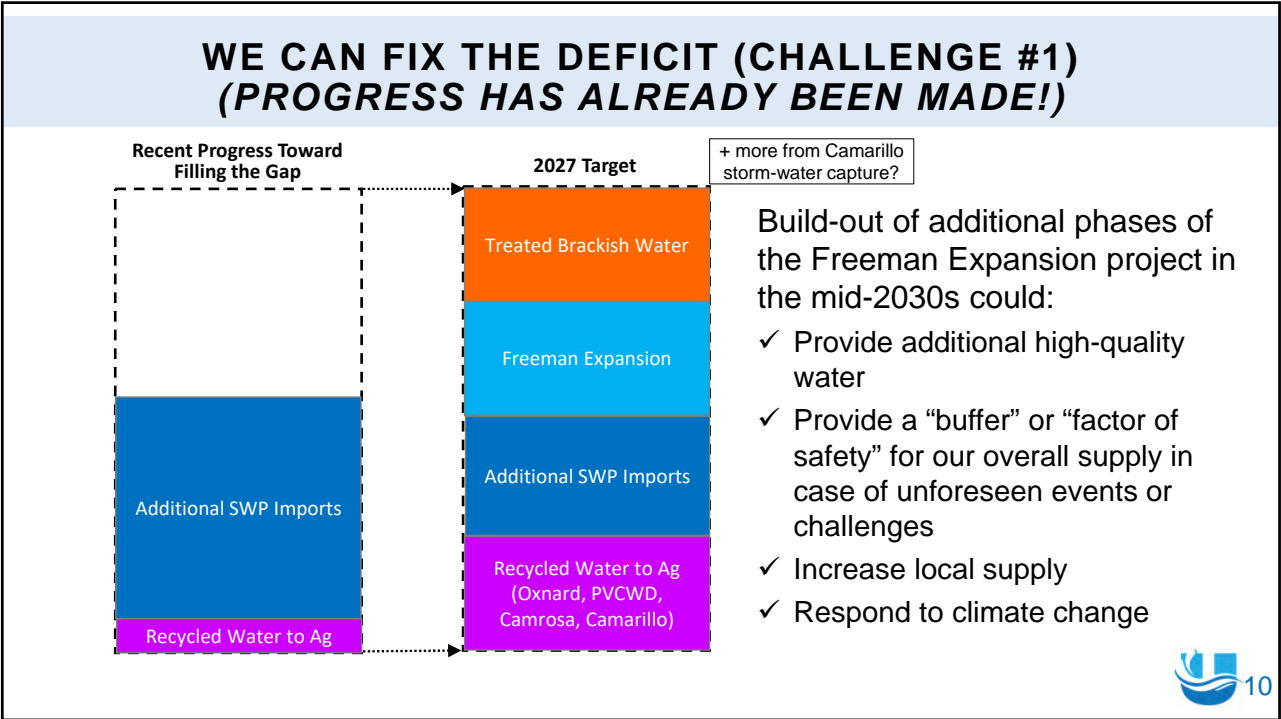
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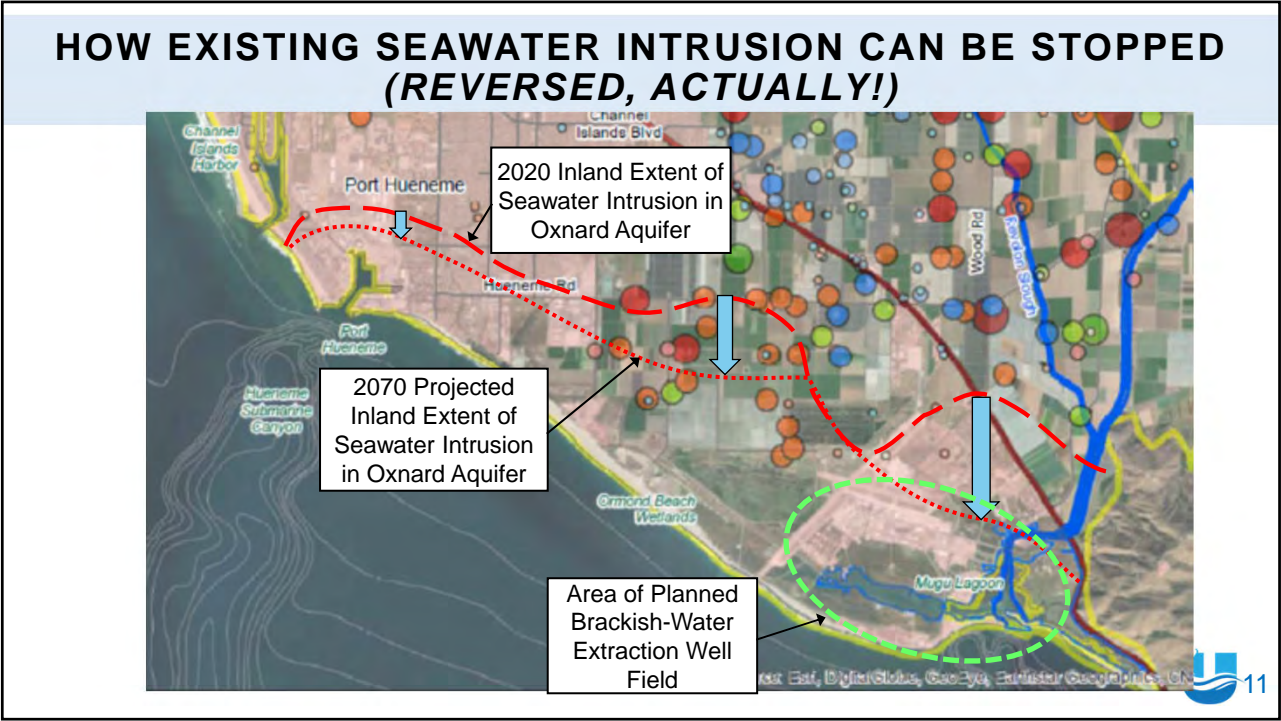
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OTHER BENEFITS OF NEW PROJECTS

Project	Resilience (drought-proof)	Water Quality	Reduce GHGs	Help DACs	Preserve Farmland	Low Cost for Water
Purchase more SWP water	✓	✓		✓	✓	✓
Freeman Expansion		✓	✓	✓	✓	✓
Extraction Barrier and Brackish Treatment (product water + sustainable yield gain)	✓	✓		✓	✓	
Recycled Water	✓	✓			✓	
Conejo Creek and PV Private Reservoirs			✓		✓	✓
Combined Benefit	✓✓✓	✓✓✓✓	✓✓	✓✓✓	✓✓✓✓	✓✓✓

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SO, WHAT HAS BEEN ACCOMPLISHED TO DATE?



United and other agencies have responded to FCGMA's call for new water supply projects

- ✓ Projects are now part of the GSPs (through 2021 Annual Reports)
- ✓ Submittal of SGM Grant application



United is achieving its 6,000 AFY (average) goal for increasing SWP imports

- ✓ Collaboration with other agencies has been critical for success



Oxnard is completing their Hueneme Road Pipeline Extension, now capable of delivering much more recycled water to agriculture



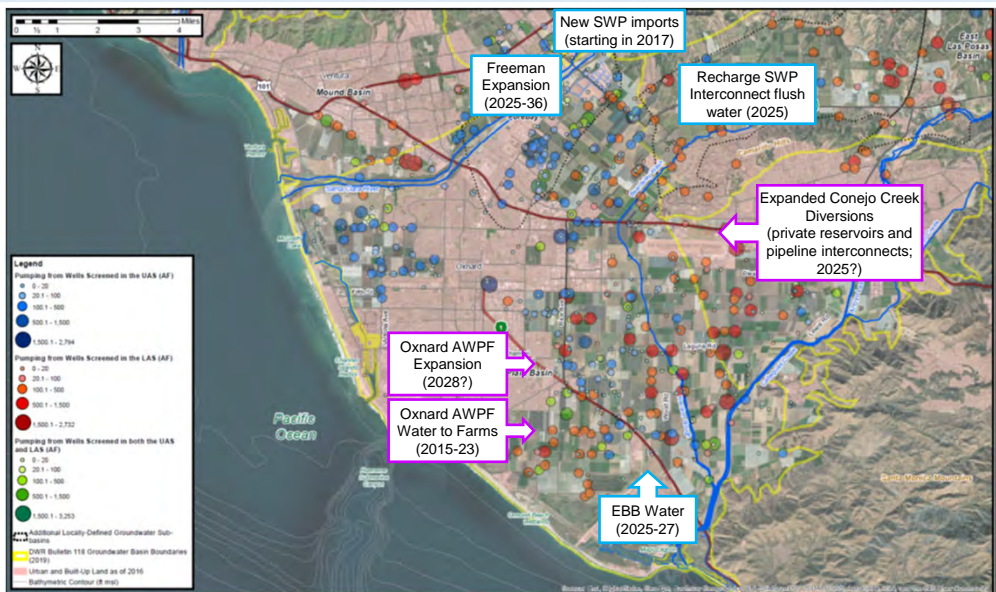
Design and planning already underway for new projects

- ✓ Expansion of proven sources
- ✓ New EBB Water project to prevent seawater intrusion and provide water




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TOGETHER, THE PLANNED PROJECTS COMPRISE A PHYSICAL SOLUTION THAT CAN MEET THE CURRENT GROUNDWATER NEEDS OF PUMPERS, WELL BEFORE THE 2040 DEADLINE TO ACHIEVE SUSTAINABILITY




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NEXT STEPS




Advance project design approaches to meet stakeholder needs:

- Refine project details, costs, and options
- Listen to input on critical factors for success



Refine, optimize, and work out details:


- Inject or extract to limit seawater intrusion at Port Hueneme?
- Input from Navy on number and location of extraction well sites
- Consider alternatives, refine cost/benefit analysis as designs advance




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DO, OR DO NOT...
THERE IS NO TRY
-YODA

QUESTIONS?





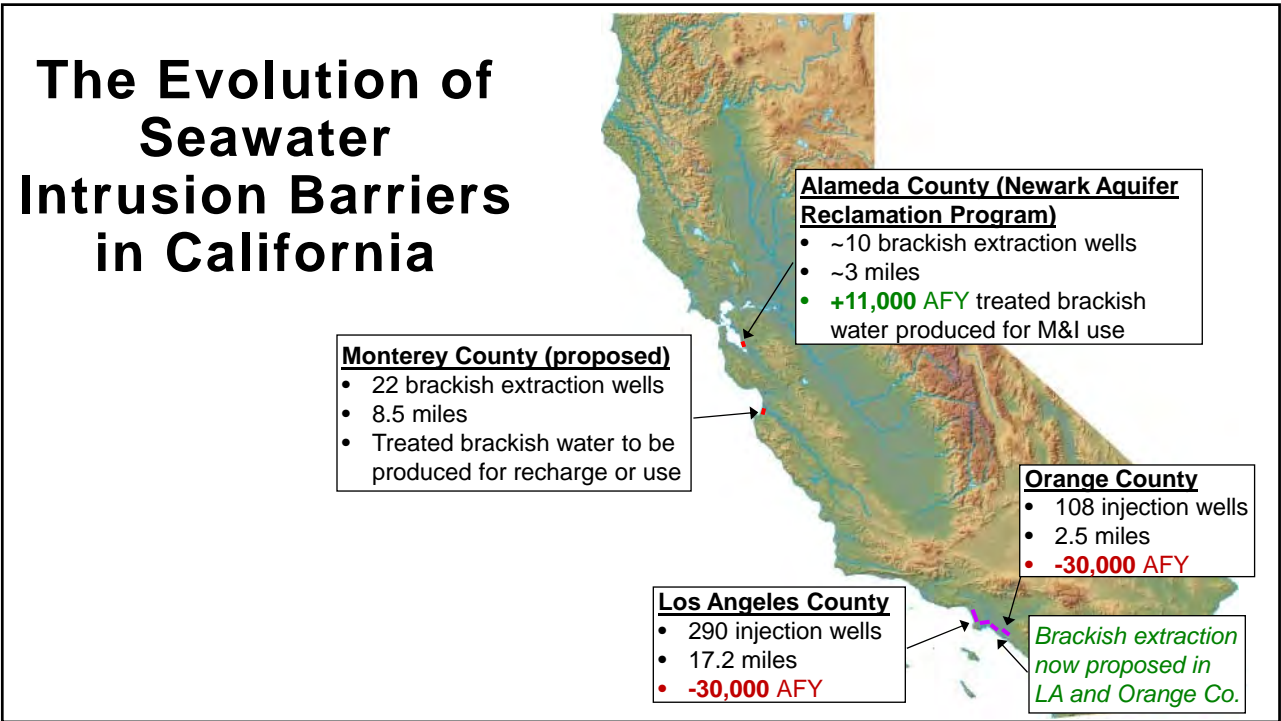
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Supporting Slides

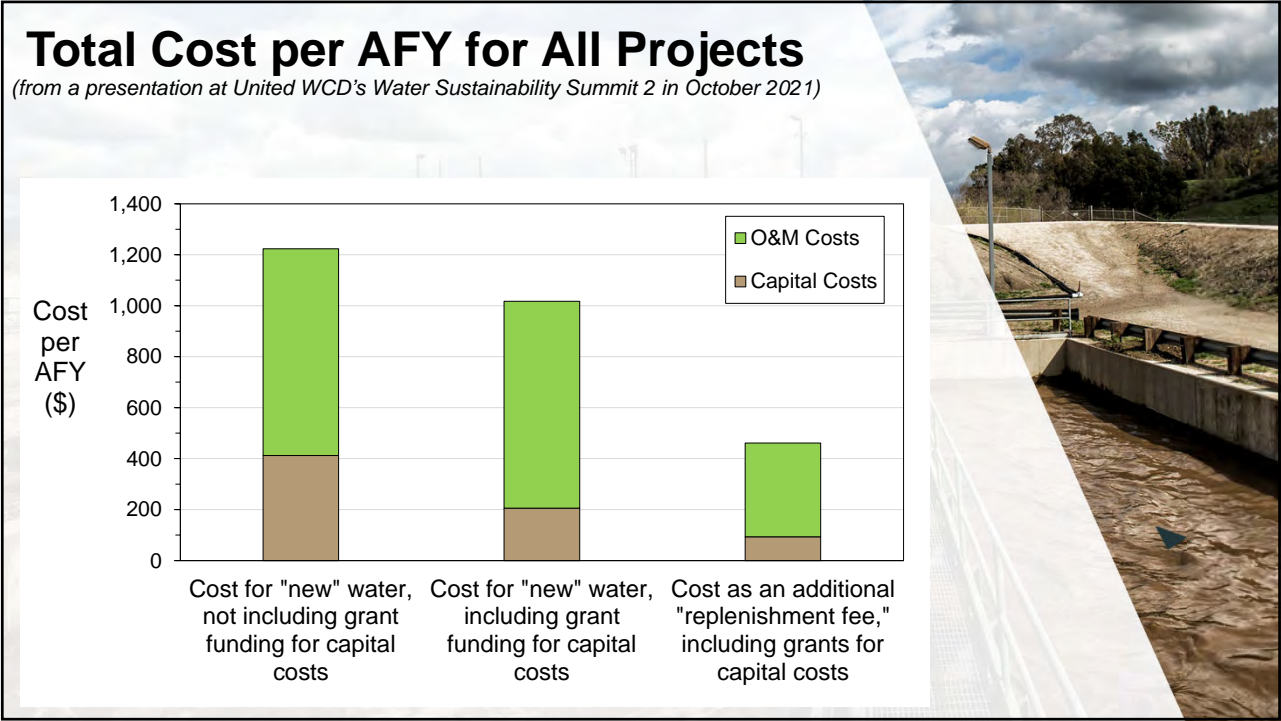
(for responding to potential questions)




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2020 Santa Paula Basin Annual Report


Presented by Kathleen Kuepper, Hydrogeologist
Water Resources Committee Meeting
March 1, 2022



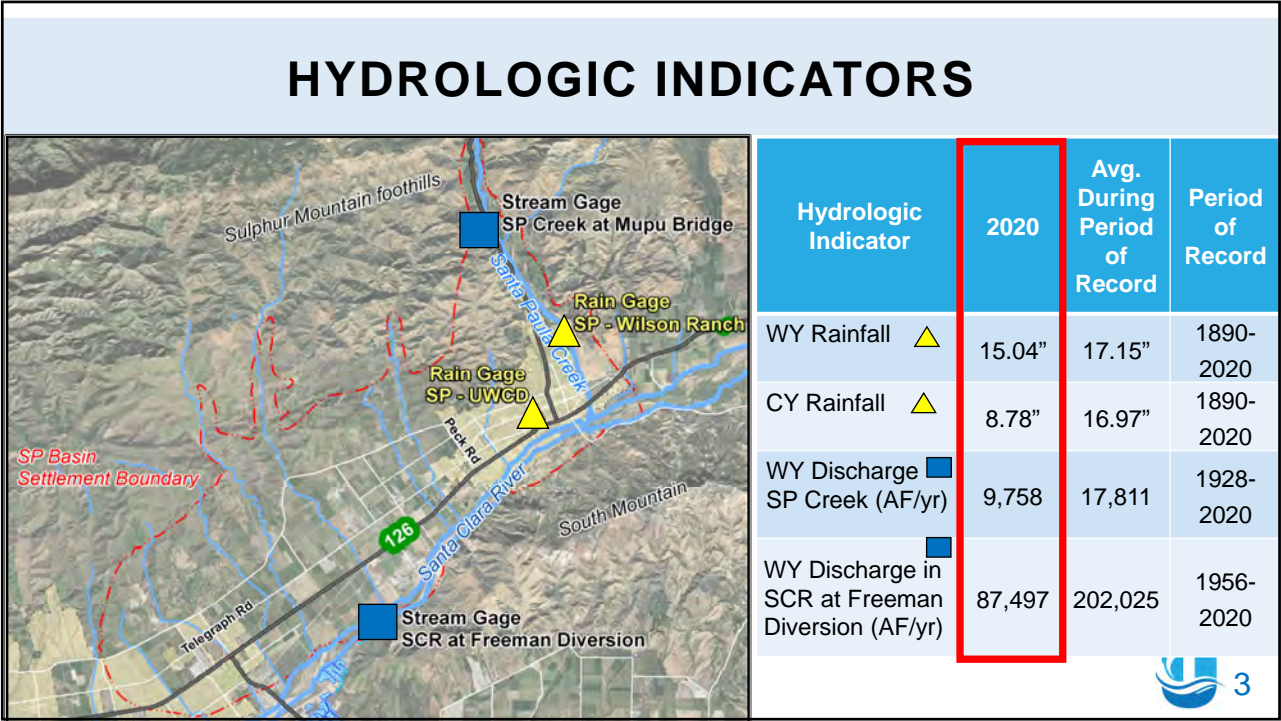
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OUTLINE

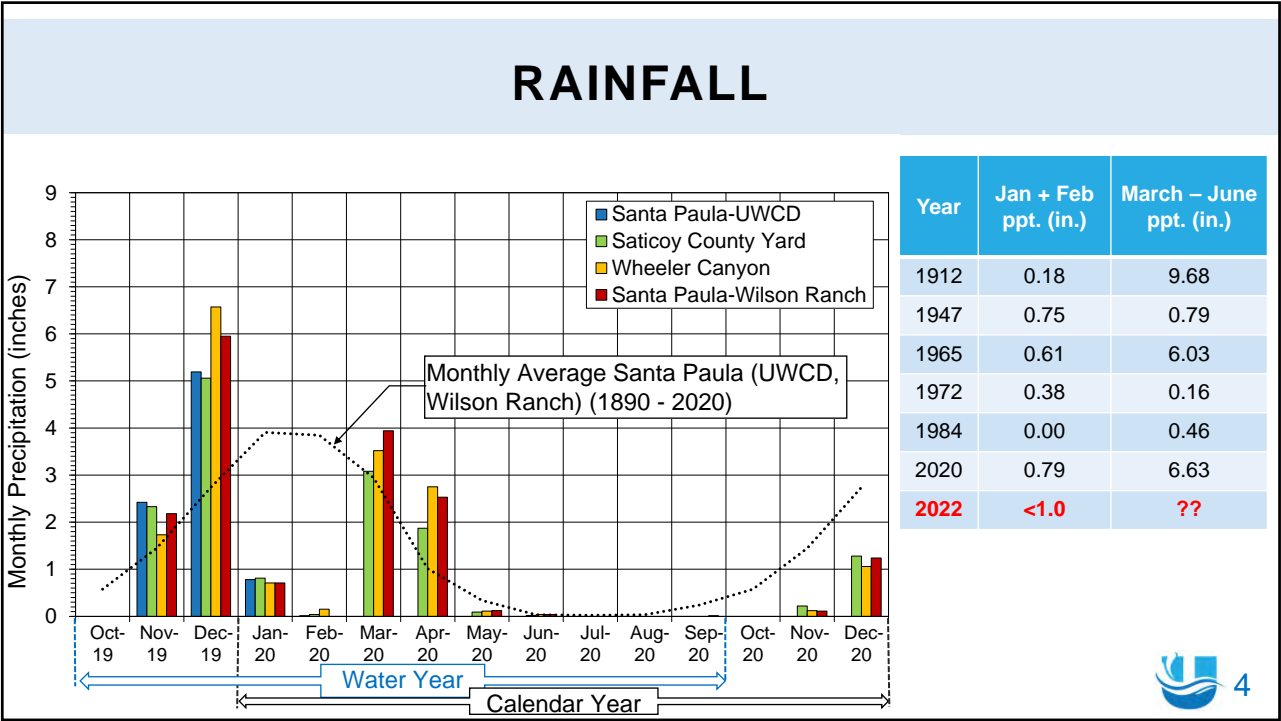
- ✓ 2020 Santa Paula basin conditions
- ✓ Water budget information from United GW model
- ✓ Model forecasts of future conditions



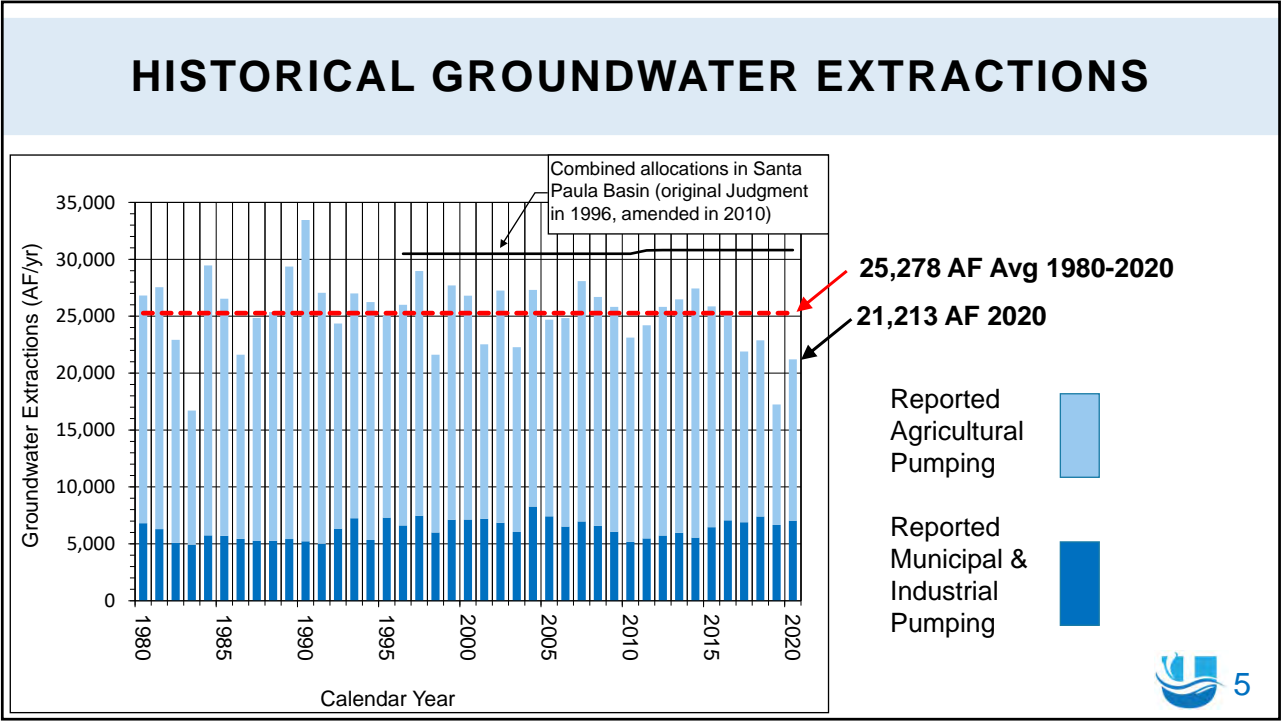
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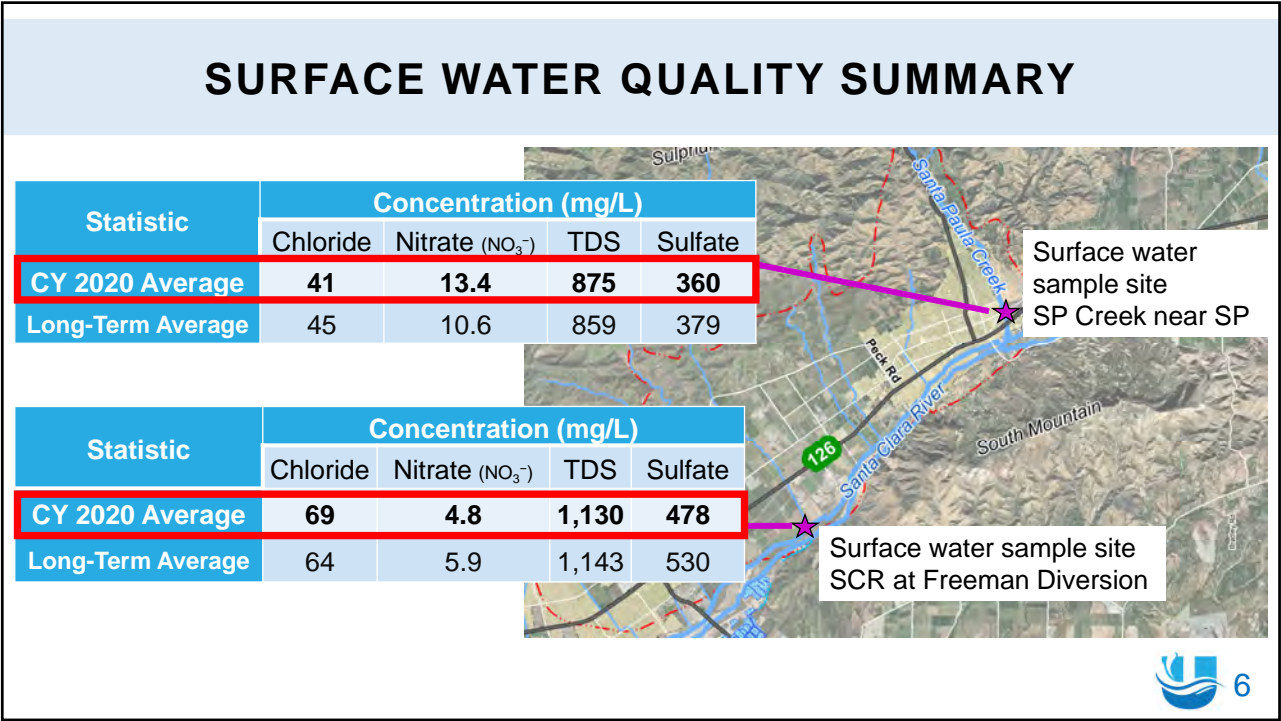
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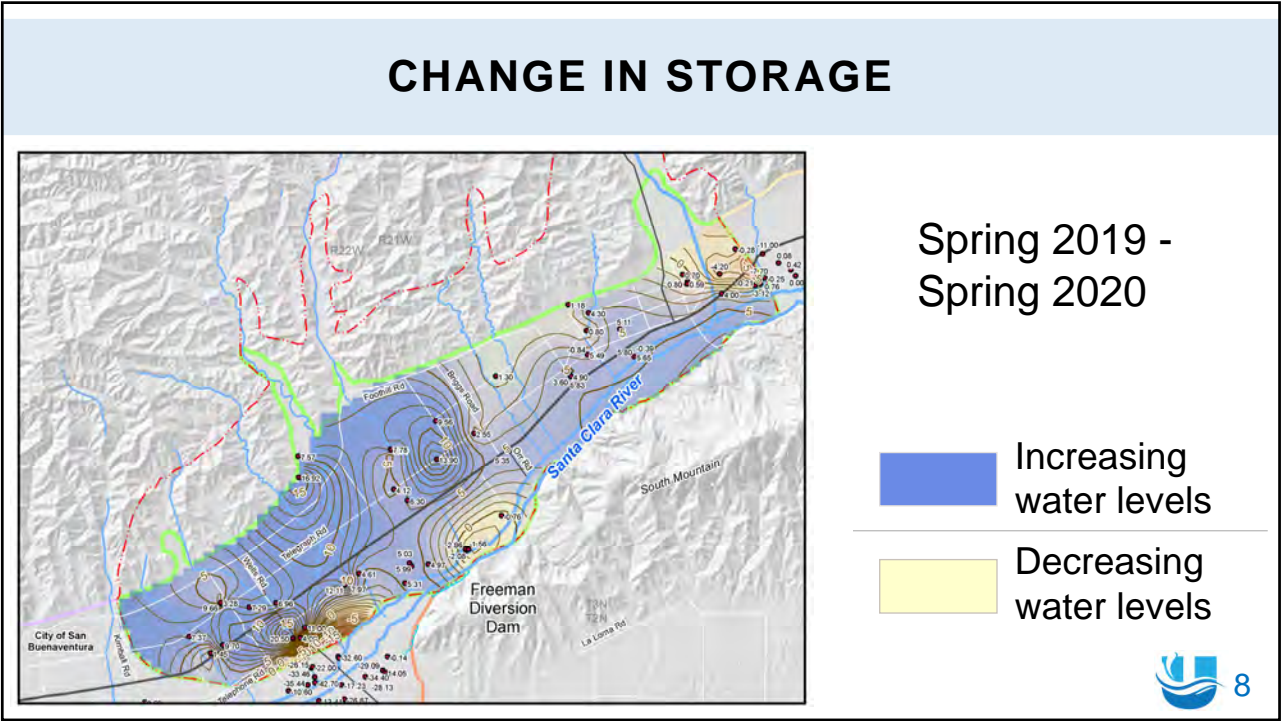
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GROUNDWATER QUALITY SUMMARY				
Statistic	Concentration (mg/L)			
	Chloride	Nitrate (NO ₃ ⁻)	TDS	Sulfate
CY 2020 Average	72.1	7.2	1,290	548
Long-Term Average	69.8	10.2	1,308	541

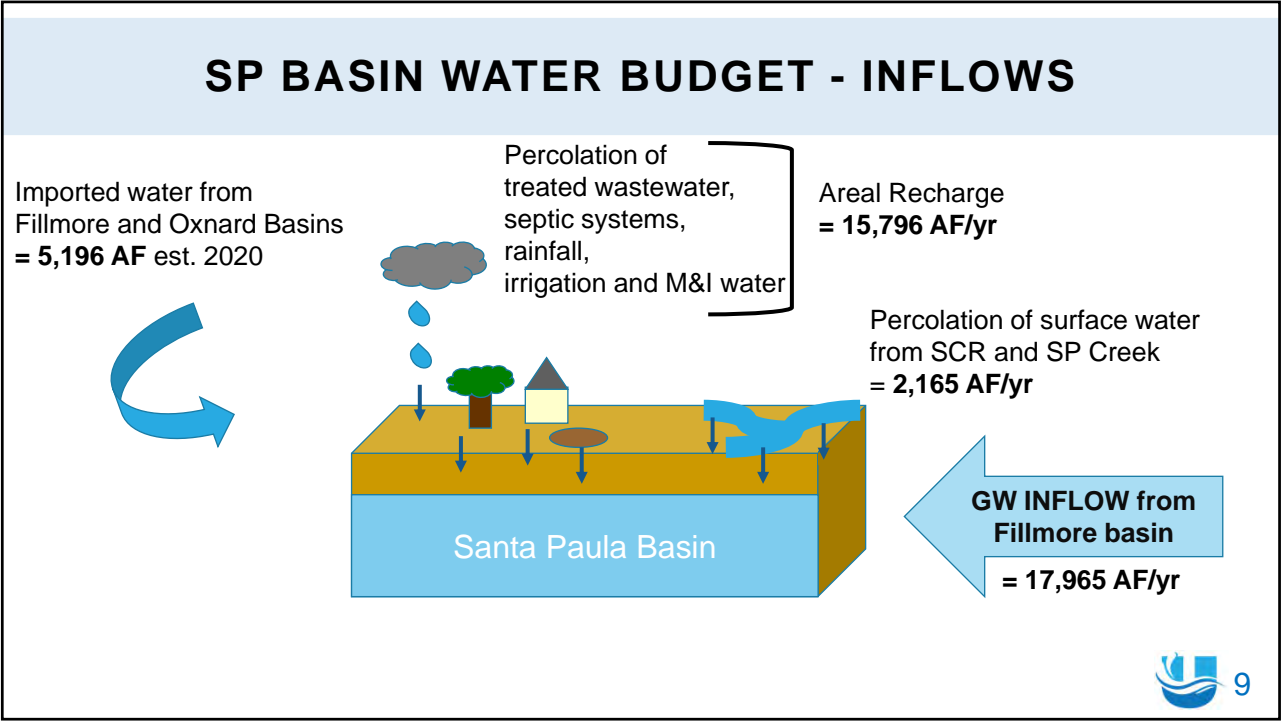
Statistic	Concentration (mg/L)			
	Hardness	Alkalinity	Iron	Manganese
CY 2020 Average	646	263	0.075	0.233
Long-Term Average	646	269	0.146	0.244

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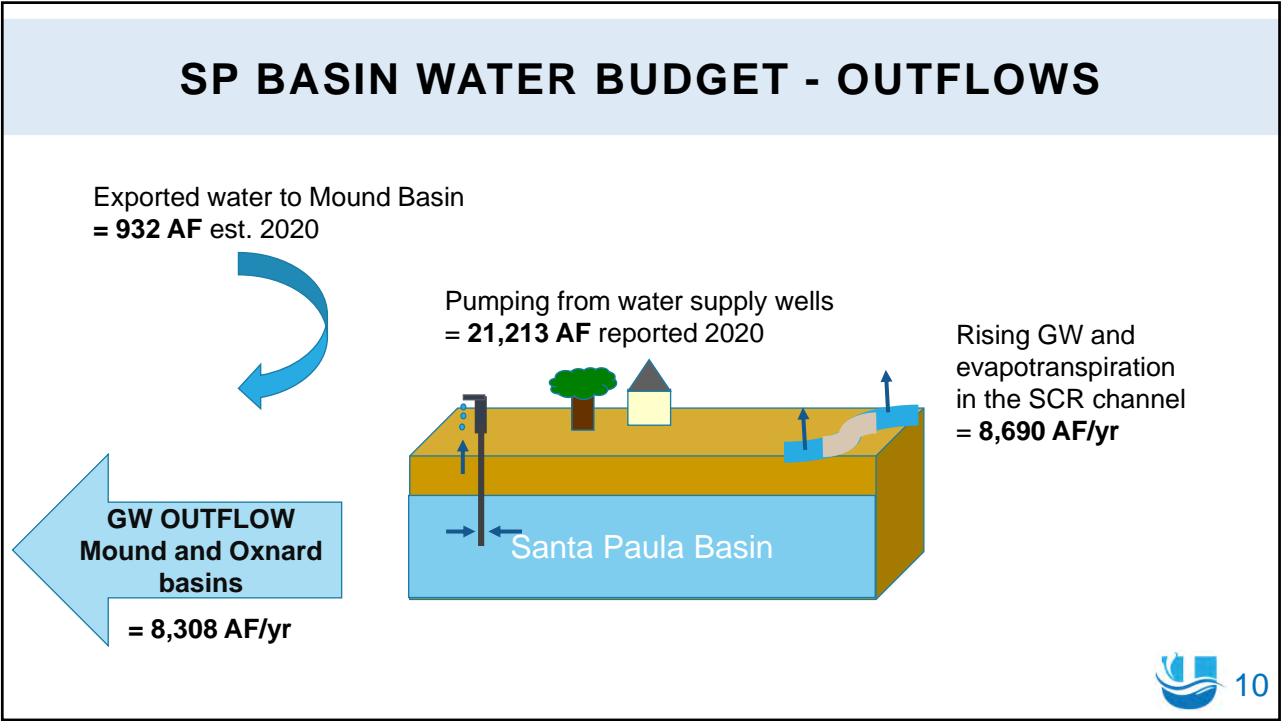
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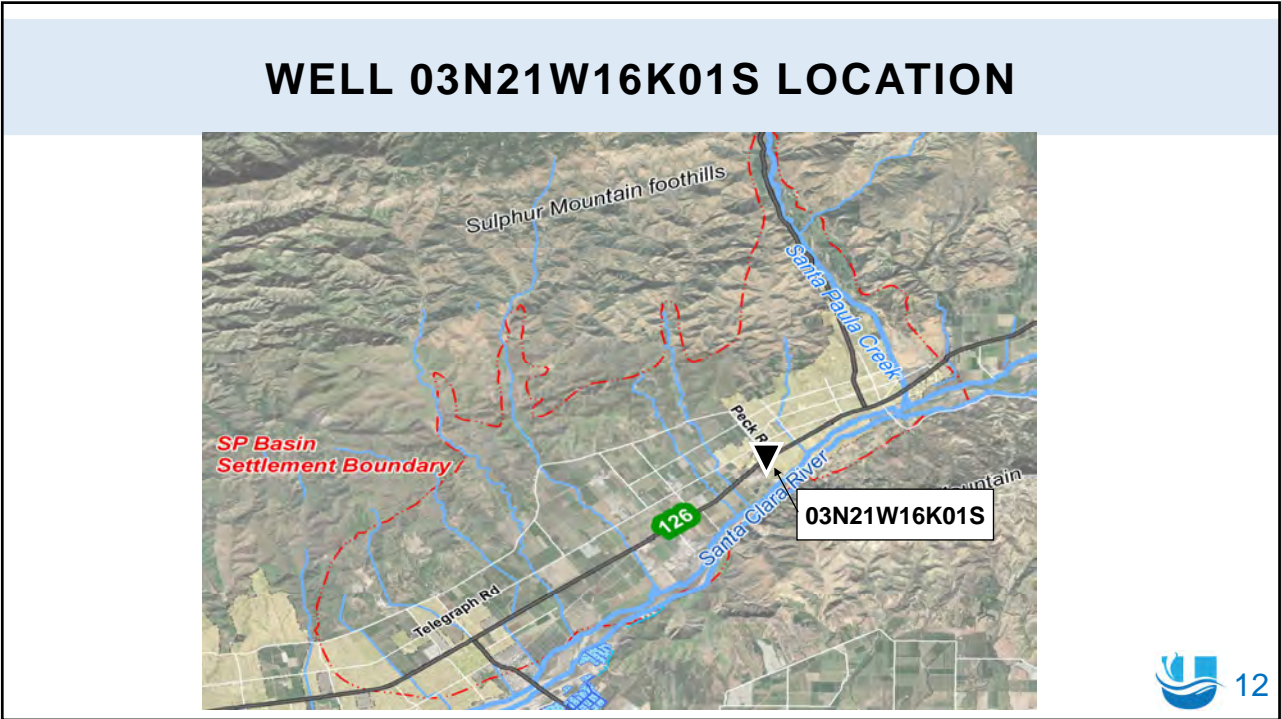
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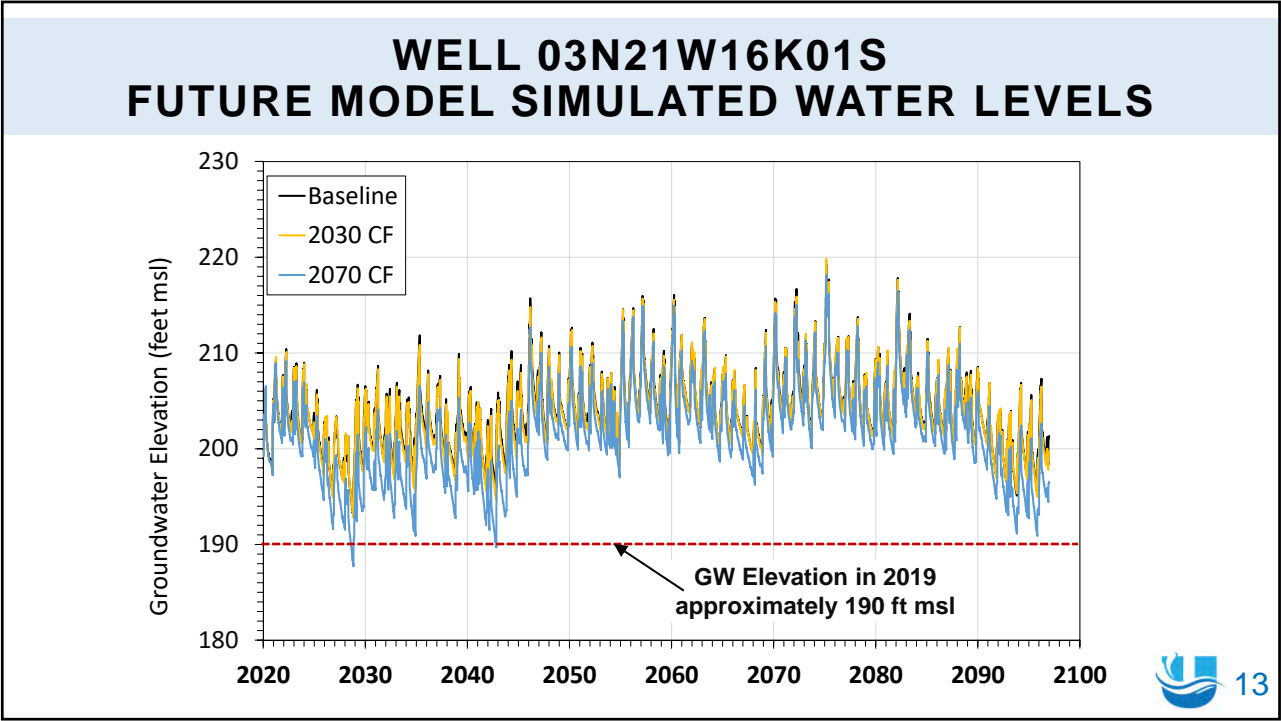
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SUMMARY OF ESTIMATES RELATED TO GROUNDWATER INFLOW AND OUTFLOW					
GW OUTFLOW		Santa Paula Basin		GW INFLOW	
Outflow (AF/yr)	Representative Years	Source	Inflow (AF/yr)	Representative Years	Source
7,200	1936 - 1951	DWR, 1956	11,500	1936 - 1951	DWR, 1956
1,800	1936 - 1957	Mann, 1959	5,400	1936 - 1957	Mann, 1959
1,800	1956 - 1990	Law/Crandall, 1993	3,900	1956 - 1990	Law/Crandall, 1993
9,100	1996 - 2012	LWA and others, 2015	16,990	1996 - 2012	LWA and others, 2015
7,350	1999 - 2012	DBS&A and RCS, 2017	19,700	1947 - 2014	Bachman, 2015
8,308	1985 - 2015	UWCD, 2021	25,244	1999 - 2012	DBS&A and RCS, 2017
			17,965	1985 - 2015	UWCD, 2021

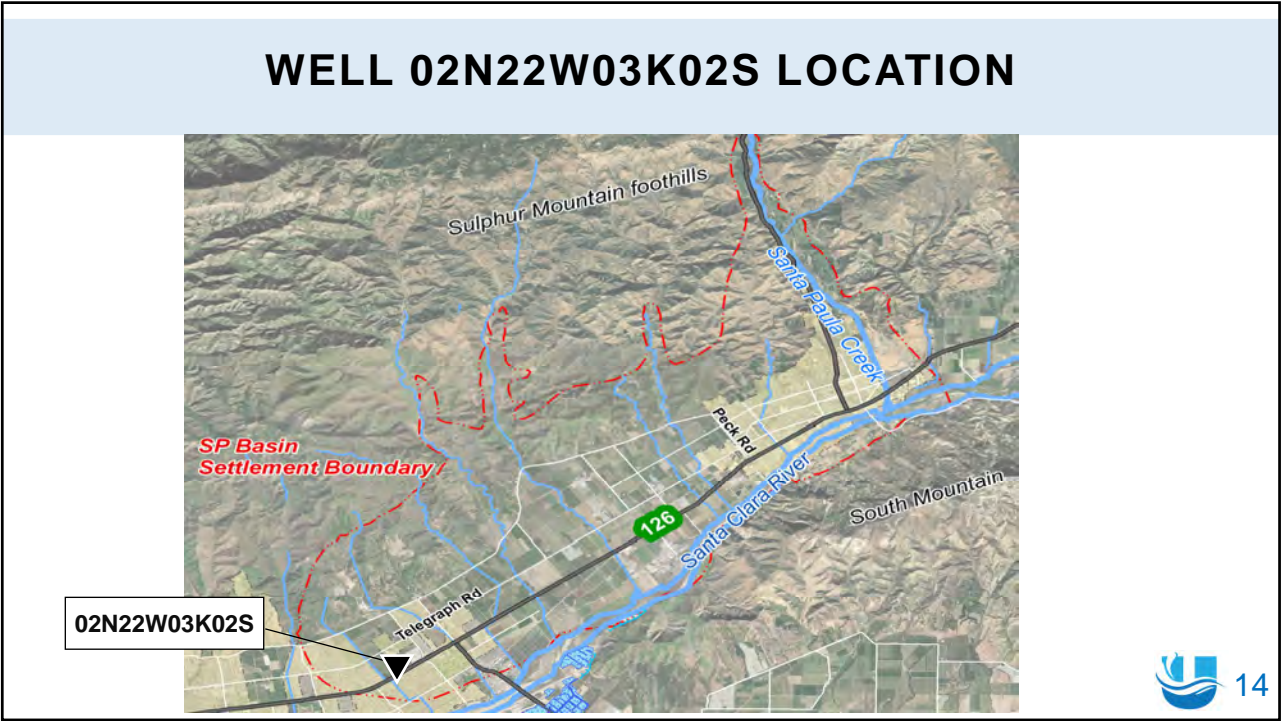
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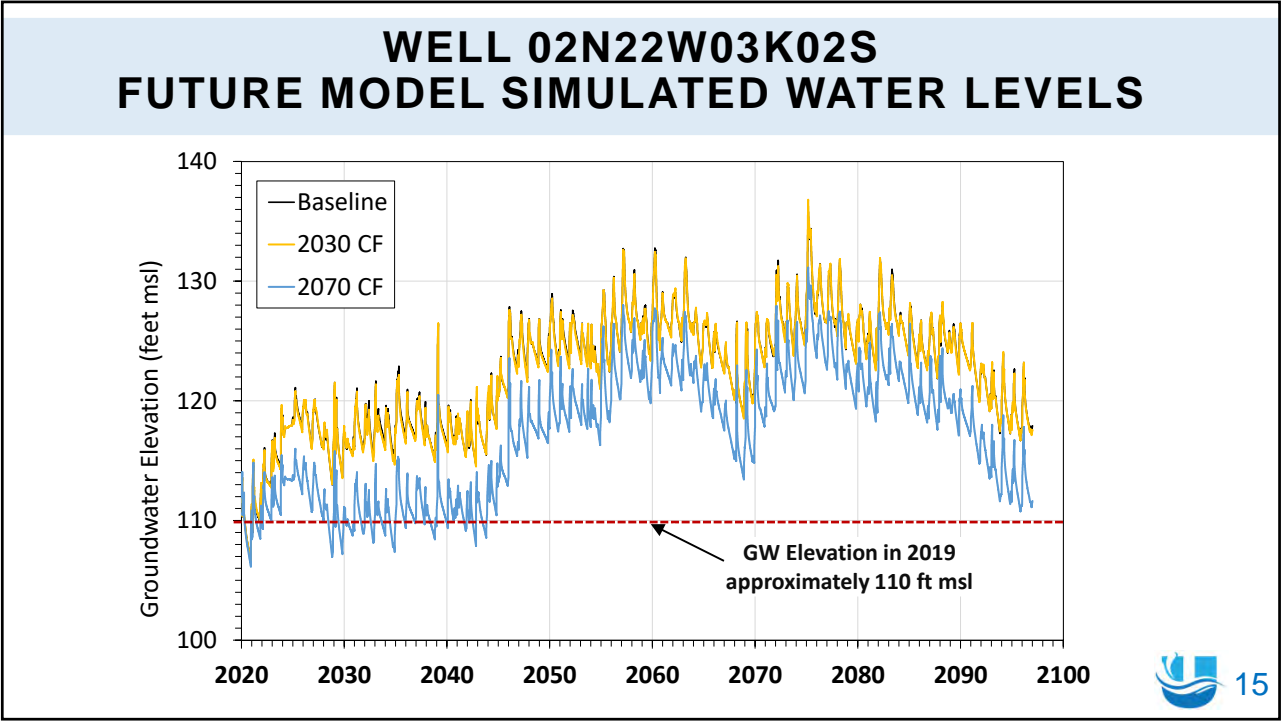
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QUESTIONS?


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Update on Groundwater Model

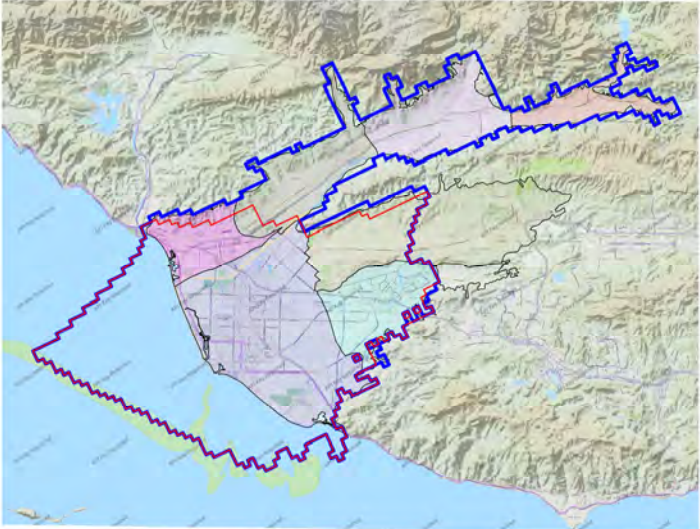
Presented by Dr. Jason Sun, Ph.D., P.E, Principal Hydrogeologist/Modeler
Water Resources Committee Meeting
March 1, 2022



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THREE GROUNDWATER MODELS

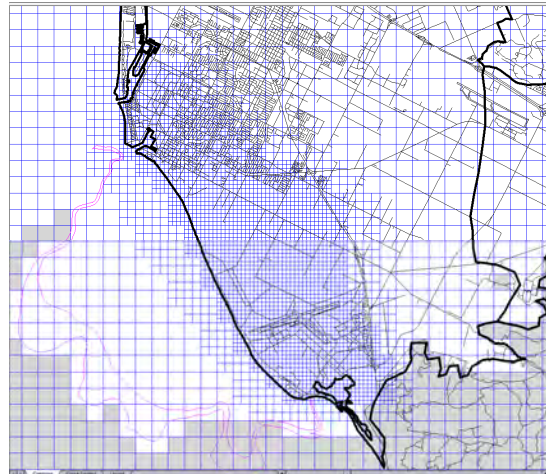
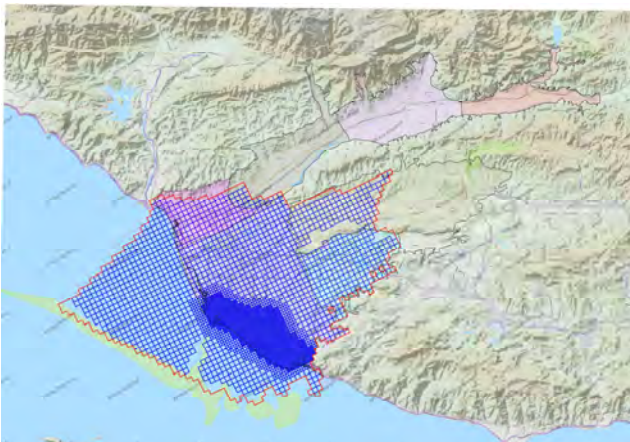
- Coastal Plain Model (2018 Model) in red line
Monthly timestep 1985-2015
- Regional Model (2020 Model) in blue line
Daily time step 1985-2019
- USG Model (Transport Model)
Monthly timestep 1985-2015



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2

USG MODEL (TRANSPORT MODEL) IS BASED ON THE COASTAL PLAIN MODEL WITH UNSTRUCTURED GRID (2000, 1000, 500 FT)



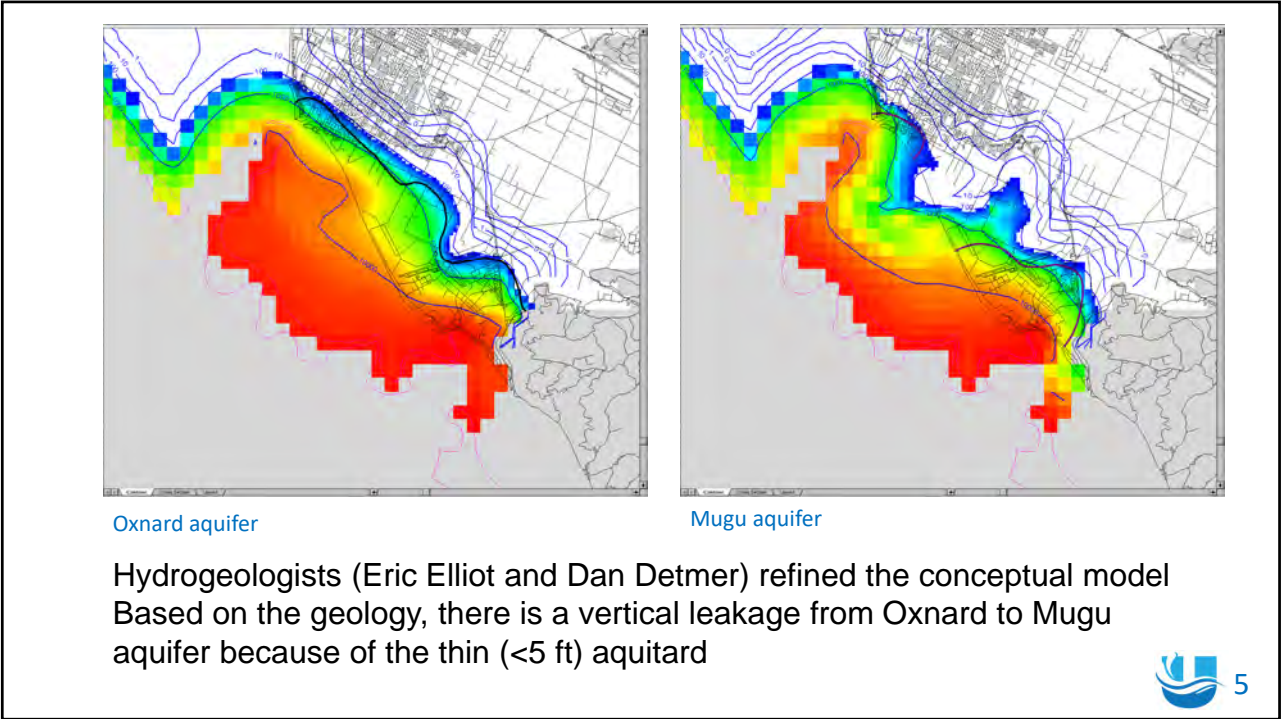
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SEAWATER INLAND EXTENT CALIBRATION

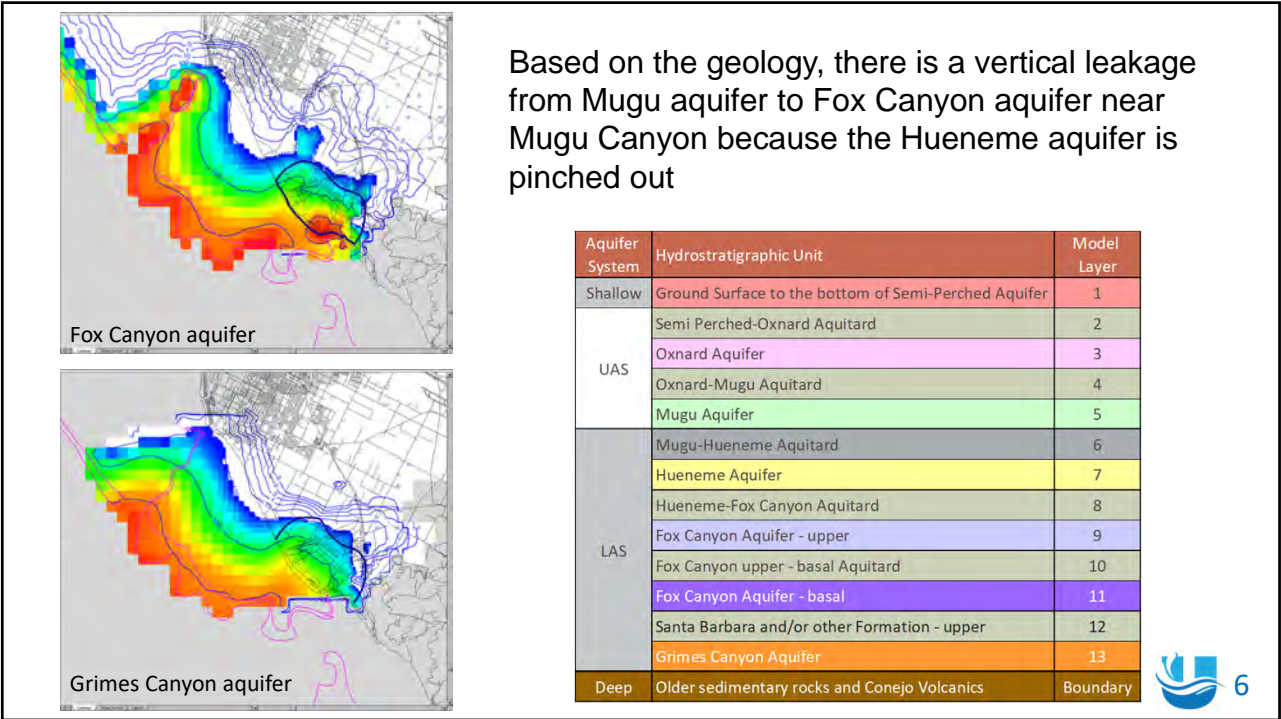
- Review the local geology near Mugu Canyon to better address the **vertical leakage** between aquifers
 - From Oxnard aquifer to Mugu aquifer
 - From Mugu aquifer to Hueneme, Fox Canyon aquifers
- Calibrated the USG Model to simulate the SWI extent in all aquifers including Oxnard, Mugu, Hueneme, Fox Canyon, and Grimes Canyon)
 - Prop 1 Grant was to simulate the Oxnard and Mugu aquifers
 - **LAS** (Hueneme, Fox Canyon, Grimes Canyon aquifers) is also included
- The calibration was completed in February 2022



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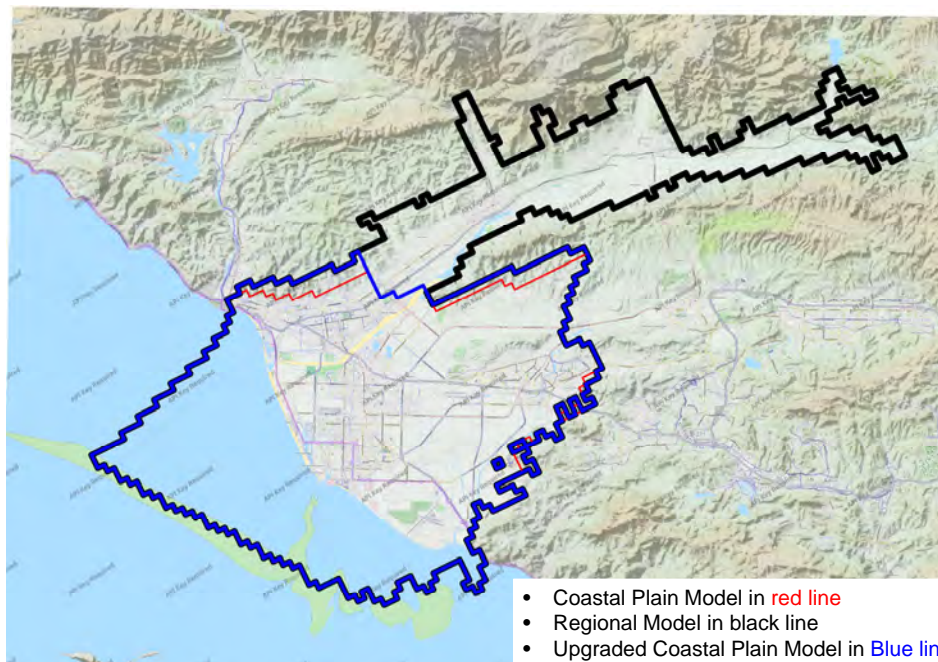
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COASTAL PLAIN MODEL UPGRADE

- Add 2016-2019 to the current simulation period (1985-2015)
- Extend the active cell boundary to be consistent with the Regional Model
- Revise the boundary conditions with Santa Paula basin based on the Regional Model
- Apply upgrade to the USG Model
- The upgrade will be completed this week



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The upgraded Coastal Plain Model (2022 Model) will be more consistent with the Regional Model (2020 Model) than the 2018 Coastal Plain Model

The model consistency will benefit future model update/maintenance

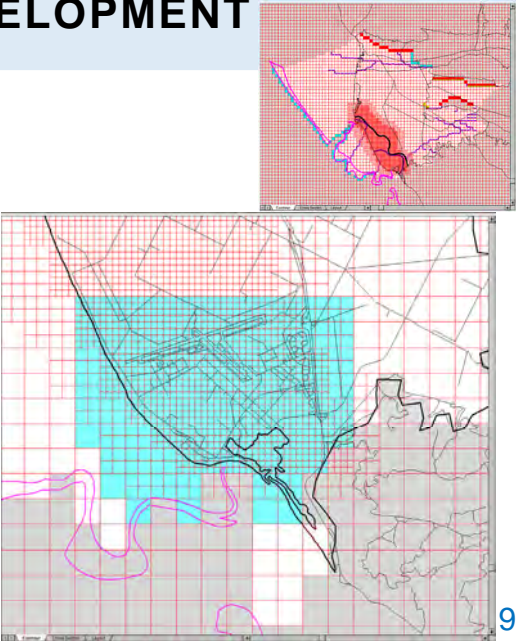
- Coastal Plain Model in red line
- Regional Model in black line
- Upgraded Coastal Plain Model in Blue line



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FUTURE MODEL DEVELOPMENT

- Develop a break-out model near the Mugu area to better simulate the seawater density wedge in the Semi-Perched aquifer
 - Eric Elliot has refined the Semi-Perched aquifer with more detailed sub-units
 - Staff will simulate the Semi-Perched aquifer with **more (5) model layers** and **finer grid cells**
- Dr. Hanson will add land subsidence to the model simulation
- Transfer model input capability to young staff




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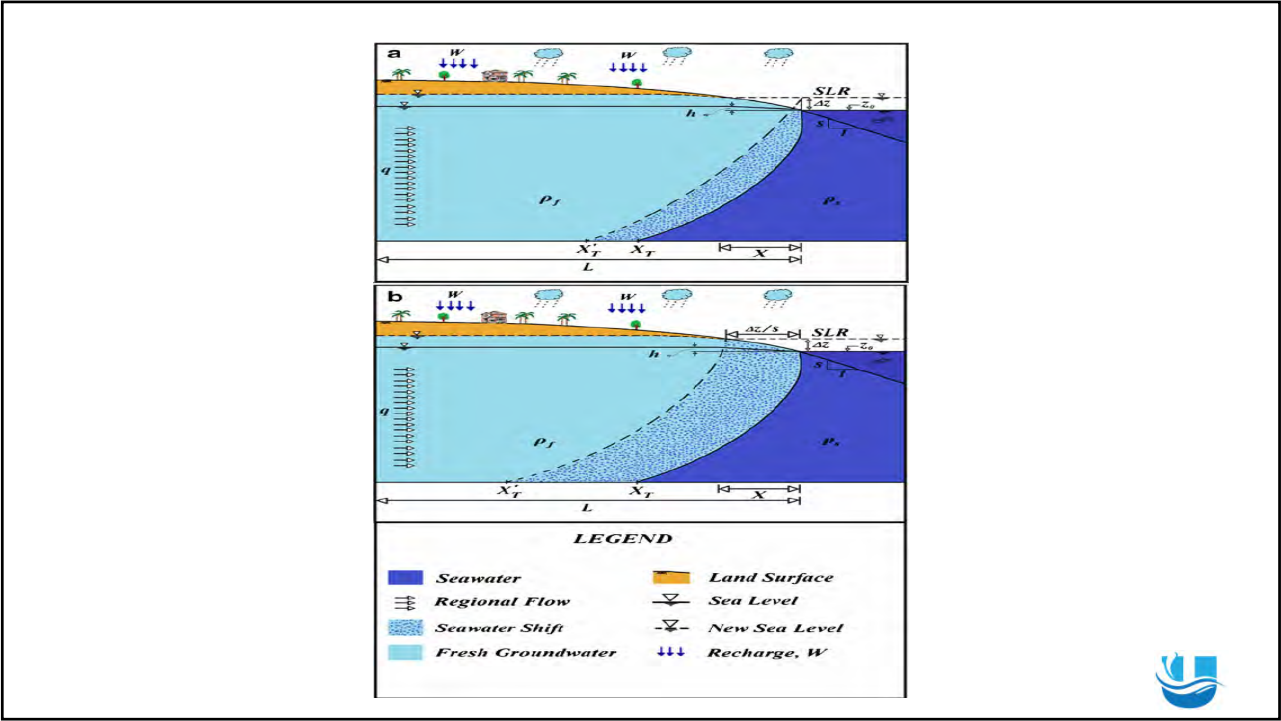
QUESTIONS/COMMENTS?

UWCD Groundwater Model list

Coastal Plain Model	Coastal Plain Model Upgrade	Regional Model	USG Model
Flow	Flow	Flow	Flow + Transport + Density
GSPs for FCGMA		GSPs for Fillmore, Piru and Mound	Brackish water
Monthly	Monthly	Daily	Monthly
1985-2015	1985-2019	1985-2019	1985-2015 (2019)
2018 Model	2022 Model	2020 Model	



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Staff Report

To: Water Resources Committee

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

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

Date: May 23, 2022 (May 31, 2022 meeting)

Agenda Item: 4. **Monthly Water Resources Department Report**
Information Item

Staff Recommendation:

The committee will receive a summary report on various Water Resources Department activities for the month of May 2022.

Discussion:

Staff Activities

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

- Groundwater Modeling:
 - Staff has converted the 2018 version of the groundwater flow model (Coastal Plain Model) to a new software version MODFLOW-USG-Transport that allows for the simulation of salinity and water density changes associated with seawater intrusion in the coastal areas surrounding Point Mugu and Port Hueneme. Staff used the new model to simulate various extraction barrier scenarios near Point Mugu as part of a feasibility study for the Extraction Barrier and Brackish (EBB) Water Treatment Project. Staff has since updated the MODFLOW-USG-Transport version of the Coastal Plain Model to include the years 2016-2019, consistent with the Regional Model. The transport model is also being used to estimate the inland extent of chloride impacts in the primary production aquifers of the Oxnard basin.
 - Staff continues to develop a break-out Perched Aquifer Model (PAM) for groundwater flow in the unconfined Semi-perched aquifer in the EBB Water Treatment Project study area. The break-out model will allow higher resolution (both horizontally and vertically) forecasting of groundwater flow paths extent of the seawater density wedge in the project area.
-

Agenda Item: 4. Monthly Water Resources Department Report
Information Item

Page 2

- Staff have completed modeling of the initial round of alternatives for integrating (optimizing) new and existing water-supply and conjunctive-use projects to increase sustainable yield and provide sufficient water to meet current and future water demands in the Oxnard and Pleasant Valley (OPV) basins. This effort incorporated both surface-water-distribution modeling and groundwater modeling to evaluate different combinations of water-supply and conveyance infrastructure to maximize sustainability, resiliency, and environmental benefits while keeping potential project costs reasonable. Staff are currently drafting an open-file report summarizing results.
 - Staff continue to help the Environmental Services Department (ESD) evaluate effects of existing and potential future surface water flow conditions at the Freeman Diversion.
 - 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 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 continue to collaborate with the Engineering Department to develop, design, and implement a portfolio of new or improved water-supply projects within the District's service area. The collaborative effort is currently focused on refining the conceptual design of water-supply projects and new conveyance systems so that they yield the best value in terms of sustainable yield for the groundwater basins in United's service area.
 - Staff assisted with development of site layouts and construction planning for extraction and monitoring wells to be included as Phase 1 of the EBB Water Treatment project.
 - DWR announced in a May 2 press release that the projects included in the FCGMA's SGM Grant application for the Oxnard Basin were awarded. United's Ferro-Rose Artificial Recharge, Laguna Road Recycled Water Interconnection, and Phase 1 EBB Water Treatment projects are components of that SGM Grant (a total of \$6.48 million in grant funding is being awarded for United's three projects). Staff are awaiting the final agreement on terms and conditions.
 - Staff continue to prepare a full proposal for a Prop 1 Round 3 grant to develop Phase 1B of the EBB Water Project. United proposed construction of production wells and control systems, discharge pipes and monitoring wells (\$7 million) and related design, permitting, sampling and reporting (\$1.4 million) to build the demonstration phase of the EBB Water Treatment Project before additional investments are made in water treatment and distribution. The full proposal is due July 15 and the grant requires a 50% funding match.
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Agenda Item: 4. Monthly Water Resources Department Report
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Outreach and Educational Activities:

- Staff continue to participate in meetings or phone calls with the FCGMA, State and local government representatives, and other stakeholders to provide information regarding sustainability issues and water-supply projects, as requested.
- Staff attended training webinars on conducting tracer tests in groundwater.
- Staff supported development of Chief Engineer Maryam Bral's presentation regarding regional groundwater conditions (Santa Clara River watershed area) to the Ventura County Board of Supervisors on May 10.
- Senior Hydrogeologist John Lindquist gave a presentation on regional groundwater conditions to the Ventura Council of Governments on May 12.
- On May 17 Zach Hanson and Chris Hendricks (O&M) attended "Farm Day" hosted by California Women for Agriculture - Ventura County at Monte Vista Independent Learning Academy in Simi Valley, and presented to many third grade students on how water moves within Ventura County as well as how United's activities support agricultural activities.



Staff Report

To: Water Resources Committee

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

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

Date: May 23, 2022 (May 31, 2022 meeting)

Agenda Item: 5. **Update on Groundwater Sustainability Agencies (GSAs) and Sustainable Groundwater Management Act (SGMA)**
Information Item

Staff Recommendation:

The committee will receive a summary report on 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 of 2014.

Discussion:

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 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.

As noted in the Monthly Water Resources Department Report for May, Staff are awaiting the final agreement on terms and conditions for the SGM Grant, which includes awards totaling approximately \$6.48 million for United's Ferro-Rose Artificial Recharge, Laguna Road Recycled Water Interconnection, and monitoring wells installation in support of the Extraction Barrier and Brackish (EBB) Water Treatment projects (through the FCGMA).

Agenda Item: 5. Update on Groundwater Sustainability Agencies (GSAs) and Sustainable Groundwater Management Act (SGMA)
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United staff also attended and, where appropriate, contributed to, FCGMA Board and Committee meetings, as follows:

Board of Directors meetings – The next regular FCGMA Board meeting is scheduled for May 25, at 1:30 pm. The meeting will be held after the submission of this staff report, and therefore a summary will be included in next month's staff report. Notable meeting agenda items include:

- The Board will receive an update on the Agency's processing of applications for variance to the Allocation Ordinance for the Oxnard and Pleasant Valley groundwater basins. The Board will consider granting of temporary variances and suspending payment of surcharges pending decision on variance applications.
- The Board will receive a presentation by staff on a proposed amendment to the Agency Ordinance to require monthly extraction reporting from all facilities equipped with an advanced metering infrastructure. A public hearing will be held before consideration of adoption.
- The Board will receive a presentation by staff on the allocation and surcharges associated with two CombCodes and an appeal on a variance request by one CombCode. The Board will consider whether to reduce or waive surcharges and conduct a hearing on the appeal on the variance request decision.

Operations Committee meetings – The FCGMA's Operations Committee held a regular meeting on May 2 at 2:00 PM. The sole topic was development of recommendations for guidelines, policies, and procedures to rank water-supply and infrastructure projects for funding prioritization and FCGMA support. Staff gave a presentation summarizing past FCGMA approaches to ranking projects. The Committee directed staff to evaluate those past approaches for applicability to future projects and develop draft recommendations to be considered at a Special Operations Committee Meeting tentatively scheduled for June 6 at 2:00 pm.

Executive Committee meetings – None were held in May.

Fiscal Committee meetings – None were held in May.

OPV Variance Review Committee meeting – None were held in May.

Ad Hoc OPV Projects Committee meetings – None were held in May.

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 FPBGSA held a regular Board meeting on May 19. Notable topics included:

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- The Board received a presentation by legal counsel and GSA staff regarding the development of the Agency's Well Permitting Review Process, with consideration of recent developments such as Executive Order N-7-22 and AB 2201 (proposed).
- The Board approved an agreement with the Brucker Family Trust for a perpetual easement on the Mike Brucker Ranch property for the construction, maintenance, and operation of the East Grove Monitoring Well near the western boundary of the Fillmore basin.
- The Board received a briefing from staff on a summary of Fiscal Year 2022-2023 Budget and rate issues. A budget meeting is scheduled for the evening of June 2.

The next regular FPBGSA Board meeting is scheduled for June 16 at 5:00 pm.

GSP implementation – Staff is helping coordinate land access agreements with area landowners in opportune locations for new monitoring wells funded by a DWR Technical Support Services (TSS) grant. Staff is also assisting with the preparation of a monitoring plan and other grant submittal documents as part of the TSS grant. In May, staff put out a request for proposal for well drilling services. The proposal submittal deadline is June 16 and a site visit is scheduled for June 8 for potential contractors.

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.

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 May 19. Notable topics included:

- The Board approved the draft Fiscal Year 2022-2023 Budget and scheduled a public hearing during the next regular Board meeting in June to consider adoption of the associated groundwater extraction charges.
- The Board authorized the Executive Director to issue a work order to Intera, Inc. for as-needed GSP implementation support for an amount no-to-exceed \$25,000.

The next regular MBGSA Board meeting is scheduled for June 16, at 1:00 pm.

GSP implementation –United staff has instrumented four existing shallow monitoring wells in the vicinity of the Santa Clara River estuary with pressure transducers. During May, staff visited the wells to measure water levels and download data from the transducers. This on-going effort supports the evaluation of surface water-groundwater interaction as planned in the Mound Basin GSP. Drilling and construction of a cluster of new monitoring wells just south of Ventura Harbor

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commenced this month and is expected to be completed in June. This work is being performed by DWR's drilling contractor under a technical support services (TSS) grant from the State.

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 are preparing a draft version of the Santa Paula Basin Annual Report for 2021.
- Harold Edwards was elected to be the new TAC representative for the Santa Paula Basin Pumpers Association, and Bryan Bondy will now support the association on groundwater matters, following the retirement of Alex Teague and the passing of long-term technical representative Frank Brommenschenkel, respectively.