

MINUTES REGULAR BOARD MEETING

Wednesday, November 9, 2022, 12:00 P.M. **Board Room, UWCD Headquarters** 1701 N. Lombard Street, Oxnard CA 93030

DIRECTORS PRESENT:

Bruce E. Dandy, president Lynn E. Maulhardt, secretary/treasurer Mohammed A. Hasan, director Gordon Kimball, director (departed at 1:35pm) Michael W. Mobley, director Daniel C. Naumann, director

DIRECTORS ABSENT:

Sheldon G. Berger, vice president

STAFF PRESENT: Mauricio Guardado, general manager David Boyer, legal counsel Anthony Emmert, assistant general manager Maryam Bral, chief engineer John Carman, operations and maintenance program supervisor Brian Collins, chief operations officer Dan Detmer, water resources manager Zachary Hanson, hydrogeologist Tony Huynh, risk and safety manager John Lindquist, supervising hydrogeologist Craig Morgan, engineering manager Zachary Plummer, technology systems manager Linda Purpus, environmental services manager Ed Reese, technology systems specialist Bram Sercu, senior hydrologist

PUBLIC PRESENT:

Sam Collie, OPV Group

Daryl Smith, controller

Brian Zahn, chief financial officer

1. FIRST OPEN SESSION 12:00 P.M.

President Dandy called the meeting to order at 12noon.

1.1 **Public Comments Information Item**

President Dandy asked if there were any public comments. None were offered.

President Dandy asked District Legal Counsel David Boyer to provide an outline of the topics being discussed during Executive (Closed) Session.

Mr. Boyer stated that the Board would discuss one case of anticipated litigation and five cases on existing litigation, those being the City of San Buenaventura v UWCD; the Wishtoyo Foundation v. UWCD; OPV Coalition v Fox Canyon GMA; UWCD v United States and UWCD v California Fish and Game Commission.

1.2 EXECUTIVE (CLOSED) SESSION 12:05 P.M.

President Dandy adjourned the meeting into Executive (Closed) session at 12:05pm.

2. SECOND OPEN SESSION AND CALL TO ORDER 1:23 P.M.

President Dandy called the Second Open Session of the UWCD Board of Directors meeting to order at 1:23p.m.

2.1 Pledge of Allegiance

President Dandy invited Director Michael Mobley to lead everyone in reciting the Pledge of Allegiance.

2.2 Public Comment

Information Item

President Dandy asked if there were any public comments. None were offered.

2.3 Approval of Agenda

Motion

Motion to approve the agenda, Director Naumann; Second; Director Mobley. Voice vote: six ayes (Hasan, Kimball, Maulhardt, Mobley, Naumann, Dandy); none opposed; one absent (Berger). Motion carries unanimously 6/0/1.

2.4 Oral Report Regarding Executive (Closed) Session

Information Item

President Dandy asked Mr. Boyer to report out of Executive Session. Mr. Boyer reported that the Board took no action during Executive session that is reportable under the Brown Act.

2.5 Board Members' Activities Report

Information Item

President Dandy asked if there were any questions or comments regarding the Board's monthly activities reports. None were offered.

2.6 General Manager's Report

Information Item

General Manager Mauricio Guardado stated he just had a quick reminder that tomorrow's AWA WaterWise event would feature presentations from the Three GMs representing Calleguas, Casitas and UWCD and the event was being held in the UWCD Boardroom and was also available online.

2.7 Ventura Local Agency Formation Commission (LAFCo) Ballot for Special District Regular Member and Special District Alternate Member Representatives (one each)

Motion

President Dandy explained the voting process for the LAFCo Special District Regular Member and Alternate Member of the Ventura Local Agency Formation Commission ballot for the term beginning January 1, 2023 and ending on December 31, 2026.

Director Hasan asked to read his candidate statement aloud (it was included in the Board packet materials along with the other candidates' written statements provided by LAFCo).

Motion to vote for Raul Avila as Regular Member and Mohammed Hasan as Alternate Member, President Dandy; Second, Director Naumann. Roll call vote: six ayes (Hasan, Kimball, Maulhardt, Mobley, Naumann, Dandy); none opposed; one absent (Berger). Motion carries unanimously 6/0/1.

3. CONSENT CALENDAR: All matters listed under the Consent Calendar are considered routine by the Board and will be enacted by one motion. There will be no separate discussion of these items unless a Board member pulls an item from the Calendar. Pulled items will be discussed and acted on separately by the Board. Members of the public who want to comment on a Consent Calendar item should do so under Public Comments. (ROLL CALL VOTE REQUIRED)

A. Approval of Minutes

Motion

Approval of the Minutes for the Regular Board Meeting of October 12, 2022.

B. Groundwater Basin Status Reports

Information Item

Receive and file Monthly Hydrologic Conditions Report for the District.

C. Monthly Investment Report

Information Item

Report on the District's investments and the availability or restriction of these funds. All investments are in compliance with the District's investment policy, which is reviewed and approved annually by the Board.

D. Resolution 2022-43 Subsequent Finding that the Governor of California issued a Proclamation of a State of Emergency on March 4, 2020 relating to the COVID-19 virus and local officials continue to recommend social distancing measures to mitigate the spread of the COVID-19 virus and Authorizing remote teleconference meetings of the legislative bodies of United Water Conservation District for the period of November 9, 2022 through December 9, 2022, pursuant to Brown Act provisions

Motion

The Board will consider adopting <u>Resolution 2022-43</u> continuing subsequent findings that the requisite conditions exist for remote teleconference meetings of the District's legislative bodies without compliance with Government Code section 54953(b)(3), as authorized by Government Code section 54953(e).

President Dandy asked if any of the Consent Calendar items needed to be pulled for discussion. None were requested.

Motion to approve the Consent Calendar, Director Naumann; Second, Director Mobley. Roll call vote: six ayes (Hasan, Kimball, Maulhardt, Mobley, Naumann, Dandy); none opposed; one absent (Berger). Motion carries unanimously 6/0/1.

4. PRESENTATIONS AND MONTHLY STAFF REPORTS (By Department)

Administrative Services Department – Brian Zahn and Josh Perez

4.1 Monthly Administrative Services Department Report Information Item

Chief Financial Officer Brian Zahn addressed the Board stating that he had no official presentation for them, but did want to advise the Board that the District's Standard & Poor's (S&P) rating was upgraded from AA- negative to AA stable. He stated that due to the prolonged drought, S&P was reviewing the ratings of most water agencies and thanks to the numerous major accomplishments of the District, and the reviewers virtual attendance at the District's Water Sustainability Summit on October 19, the District earned an improved rating.

President Dandy asked if there were any questions or comments from the Board. None were offered.

Engineering Department – Dr. Maryam Bral

4.2 Monthly Engineering Department Report Information Item

Chief Engineer Dr. Bral addressed the Board and shared a presentation (see attached slides) highlighting the key activities of the Engineering Department during the previous month, including the sixth Board of Consultants two-day meeting for the Santa Felicia Dam Safety Improvement Project in September which included members of FERC, DSoD, consultants and staff (participating in person and virtually). The group reviewed the 30% design for the spillway and 90% design for the Outlet works and will issue a report to UWCD which was then submitted to FERC and DSoD on October 14.

On October 20, engineering staff hosted a table top exercise for 58 people. The workshop was an exercise of a hypothetical emergency to test the reliability of the District's Emergency Action Plan.

There was a brief shut down of the Iron and Manganese Treatment facility to replace pipes on October 26; and the PTP Metering project continues to secure additional easements. Dr. Bral reported that 40 of the 61 easements have been secured and that an additional 5 easements will be completed by the end of 2022, which leaves 17 easements still to go.

Dr. Bral also included public outreach efforts of the department, including the Water Sustainability Summit on October 19, and the teams' participation at the Southern California Salinity Coalition (SCSC) One Water Salinity Management Innovation Summit on October 26.

President Dandy asked if there were any questions or comments for Dr. Bral. Director Maulhardt asked if any members of the Metropolitan Water District were working on desal projects. Dr. Bral sited projects in southern California and stated that no other agencies in Ventura are working on desal projects except UWCD.

Environmental Services Department – Linda Purpus

4.3 Monthly Environmental Services Department Report Information Item

Environmental Services Manager Linda Purpus addressed the Board, asking if there were any questions based on the department's summary report of monthly activities. None were offered. She then shared a presentation (see attached slides) outlining the department's efforts in securing permitting for the Freeman Sediment Management project; the Fish and Game Commission's approval of the District's request for a six-month extension to complete CDFW's status review of the petition to include southern California steelhead under CESA; and an invitation from USGS and UCLA to collaborate on publishing the findings of the Pulsed Flow Study in a peer reviewed journal, and that the District staff would take the lead on the report.

President Dandy asked if there were any questions or comments for Ms. Purpus. Director Maulhardt asked some questions about the advantages of publishing the Pulsed Flow Study report, which Ms. Purpus answered in greater detail.

Operations and Maintenance Department – Brian Collins

4.4 Monthly Operation and Maintenance Department Report <u>Information Item</u>

Chief Operations Officer Brian Collins addressed the Board asking if they had any questions regarding his department's summary report on monthly activities; none were offered. He then shared a presentation (see attached slides) documenting maintenance work on the Freeman Diversion, the replacement of the motor on the Oxnard Hueneme pipeline Well 16; and the emergency replacement of the pump on Pumping Trough pipeline well #3, which experienced a catastrophic failure. Mr. Collins reported that staff leveraged PTP well #12 to supplement the PTP

system during the repair period.

Director Hasan asked Mr. Collins if these emergency situations are covered in the District's budget. Mr. Collins replied that the emergency repair for PTP well #3 followed District protocol and there was no disruption of service.

President Dandy asked if there were any additional questions or comments for Mr. Collins. None were offered.

Director Kimball departed the meeting at approximately 1:35pm.

Park and Recreation Department - Clayton Strahan

4.5 Monthly Park and Recreation Department Report Information Item

Chief Park Ranger Strahan was not at the Board meeting and since the November Recreation Committee meeting was canceled, there were no presentations for the Board.

President Dandy reported that several Directors were in attendance for the Special Board Meeting on Monday at the Lake Piru Recreation Area and were given a tour of the many improvements completed at the lake over the past year. Director Maulhardt added that it was a great tour of all of the facilities and Director Hasan commented on the abundance of wildlife visible in the park.

<u>Water Resources Department</u> – Dan Detmer

4.6 Monthly Water Resources Department Report Information Item

Water Resource Manager Dan Detmer addressed the Board reporting that, based on the response to the department's presentation to the Water Resources Committee, staff made some updates and changes to its presentation for the Fox Canyon GMA entitled Modeling of Projects for OPV Basins' Sustainability (see attached slides). The presentation was a collaborative effort between Supervising Hydrogeologist John Lindquist, Senior Hydrologist Dr. Bram Sercu and Hydrogeologist Dr. Zachary Hanson.

Throughout the presentation there was an extensive discussion regarding the definition of sustainable yield and how the understanding of that term has changed over the years.

Director Maulhardt stated that slide 24, specifically, had great potential to bring projects online, which is the primary mission of the District. President Dandy added that this presentation is very important and will have a huge impact, which is why he wanted a better understanding of the information provided, especially moving forward over the next 50 years. Director Mobley added that the slides are great at conveying important information regarding how the projects, pipelines and pumping fit into the groundwater sustainability plans and explain how much water these projects are bringing into the region.

Mr. Lindquist said that staff is looking for important conclusions and implications based on the modeling data and looks to the Board for additional input and ideas.

Director Naumann suggested including the 1500AF per year that is needed by the Navy. Mr. Detmer said it is an alternate supply of water and Dr. Sercu, addressing slide 25, said that if there is no demand, that water would be used for basin recharge and when there is demand, the water can be moved to accommodate the demand. He added that the average modeling outcome with project recharge and pipeline development accounts for an additional 10,500AF per year (slide 27) and the projects reduce pumping by 39 percent along the coast, which also helps with seawater intrusion.

Mr. Lindquist said that with the projects modeled, the region can reach sustainability without having to reduce pumping and effectively mitigate *nearly all* seawater intrusion, improving the water quality. Addressing slide 35, Mr. Lindquist said "optimization" may not be needed to decrease or mitigate seawater intrusion, but the EBB Water project needs to be a lifelong commitment. He said Fox Canyon GMA will be working on the five-year update to the GSPs and based on modeling may not need to ramp down.

President Dandy asked about subsidence and climate change locally and Mr. Lindquist replied that the planning includes requirements for climate change and seawater rise. Director Maulhardt recalled how, back in the early 1960s, elected officials opted not to build three dams and didn't think there would be such a great need for water. Director Maulhardt said that the modeling shows that "we must to these projects to get these results." He added that Ventura County is the seventh or eighth largest agricultural economy in the United States and needs to be more efficient at using water.

5. MOTION ITEMS (By Department)

Engineering Department - Craig Morgan

5.1 Contract Amendment to the Engineering Support Contract with Stantec Consulting Services, Inc. for the Vertical Slot Fish Passage Alternative Motion

Engineering Manager Craig Morgan addressed the Board and presented a slide which outlined the needs for the amendment to the Stantec professional consulting services agreement for the Vertical Slot fish passage alternative.

Motion to authorize the General Manager to execute an amendment to the professional consulting services agreement with Stantec Consulting Services, Inc. (Stantec) in the amount of \$150,820 to provide continued engineering design support of the Vertical Slot as a Freeman Diversion Fish Passage Facility alternative, Director Maulhardt; Second, Director Naumann. Roll call vote: five ayes (Hasan, Maulhardt, Mobley, Naumann, Dandy); opposed, none; absent, two (Berger, Kimball) Motion carries unanimously 5/0/2.

6. BOARD OF DIRECTORS READING FILE

7. FUTURE AGENDA ITEMS

President Dandy asked if there were any topics for consideration by the Board on future agendas. None were offered.

Director Maulhardt said he wanted to thank staff or the tour of the Lake Piru Recreation Area, and that it was a great tour and he especially appreciated being included in the all staff BBQ.

8. ADJOURNMENT 3:27p.m.

President Dandy adjourned the meeting at 3:27p.m. to the next Regular Board Meeting scheduled for Wednesday, December 14, 2022 or call of the President.

I certify that the above is a true and correct copy of the minutes of the UWCD Special Board of Directors meeting of November 9, 2022.

ATTEST:

Lynn E. Maulhardt, Board Secretary

ATTEST:

Kris Sofley, Clerk of the Board

UWCD Board Meeting 2022-11-09



ENGINEERING DEPARTMENT MONTHLY UPDATE

November 9, 2022





1

Santa Felicia Dam Safety Improvement Project BOC Meeting No. 6 on Sept 28-29



- Review of 60% Design of the new Outlet Works and 30% Design of the Spillway Improvements
- BOC report and BOC tracking form e-filed with FERC on October 14 and submitted hardcopy to DSOD

2

Dam Safety and Regulatory Compliance SFD Tabletop Exercise

- Held on October 20 at District Headquarters
- 58 people attended (41 in person,17 virtual)
- Emergency Action Plan updated
- Gannett Fleming provided support with TTX









3

Iron and Manganese Treatment Facility



New 24" Filtered Water Connection to Existing 42" Upper Aquifer System Pipeline



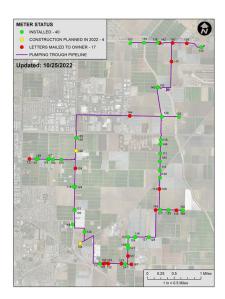
New 14" RAW Bypass connection to Existing 42" Upper Aquifer System Pipeline





PTP Metering System Improvement

- 3
- Meters installed to date: 65% completion (40 of 61)
- A new meter installed at TO # 134 on September 29
- Future installation of five meters by the end of 2022
- Progress meeting with HJA on October 13 to discuss easement acquisition progress





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Public Outreach

2022 Water Sustainability Summit



Santa Felicia Dam Safety Improvement Project Extraction Barrier and Brackish Water Project



Laguna Rd Recycled Water Interconnection



Iron and Manganese Treatment Plant Project



Overview of Benefits and Costs



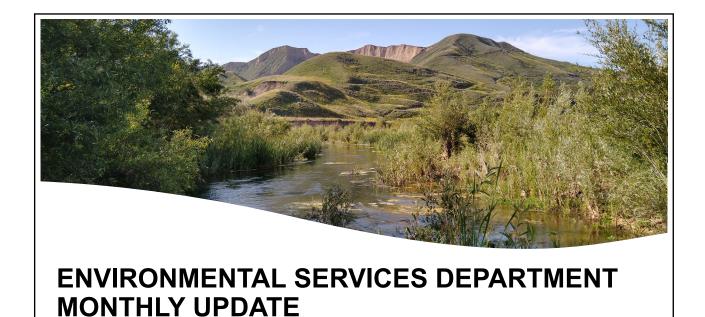
Dr. Bral attended the SCSC 2022 One Water Salinity Management Innovation Summit at MWD on October 26







UWCD Board Meeting 2022-11-09



November 9, 2022





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Department Summary Updates

- Permitting
 - Status update on Freeman Sediment Management project
- CESA
 - F&G Commission approved CDFW's request for six-month extension to complete status review
- · Pulsed Flow Study
 - Partnership with USGS and UCLA to publish findings in peer reviewed journal













UWCD Board meeting 2022-11-09



OPERATIONS AND MAINTENANCE DEPARTMENT MONTHLY UPDATE

November 9, 2022





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Freeman Diversion

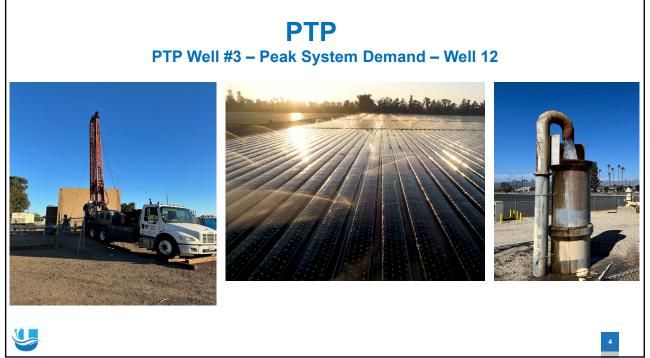
Canal Expansion Joint Seal – Trash Rack Bearing – TID Meter











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4.6 MODELING OF PROJECTS FOR OPV BASINS SUSTAINABILITY

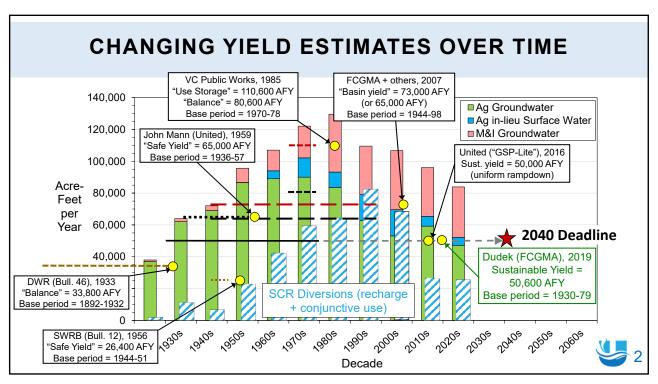
Prepared by Bram Sercu, PhD/Senior Hydrologist

John Lindquist, Supervising Hydrogeologist

Zachary Hanson, PhD/Hydrogeologist

Board of Directors Meeting

November 9, 2022



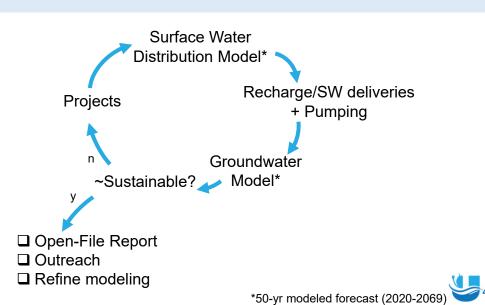
STAKEHOLDER PROCESS FOR DEVELOPING A PREFERRED FUTURE PROJECT SCENARIO

- 1. Major pumping reductions contemplated in Oxnard and Pleasant Valley basin GSPs
 - Many stakeholders were concerned
- 2. In 2020 FCGMA convened an ad hoc Stakeholder Projects Committee
- 3. Committee recommended a "Hybrid Scenario"—combining optimization efforts and a seawater-intrusion barrier—for United to model
 - Referred to herein as "Stakeholder Scenario"
- 4. United was asked to model potential effects of this scenario
- 5. United shared preliminary results with stakeholders at several meetings in 2021
- 6. United made some updates and adjustments, prepared report in 2022
 - Now available on United's website

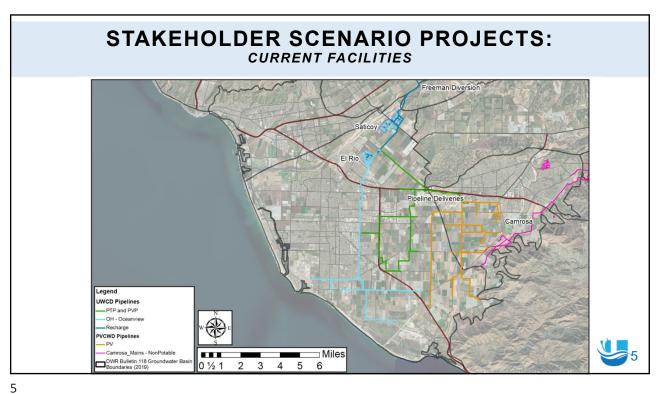


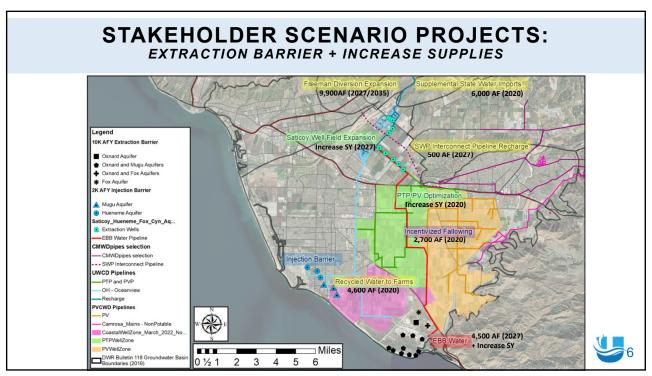
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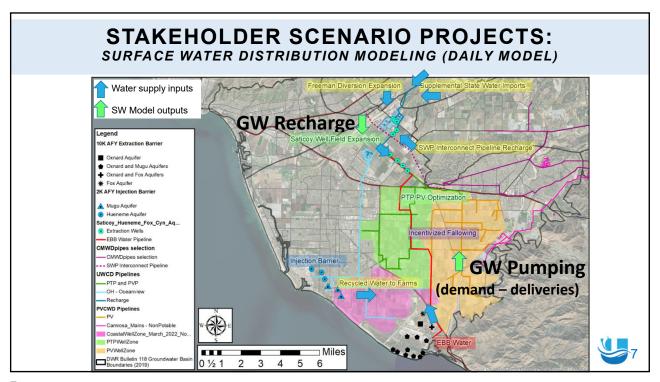
STAKEHOLDER SCENARIO MODELING APPROACH

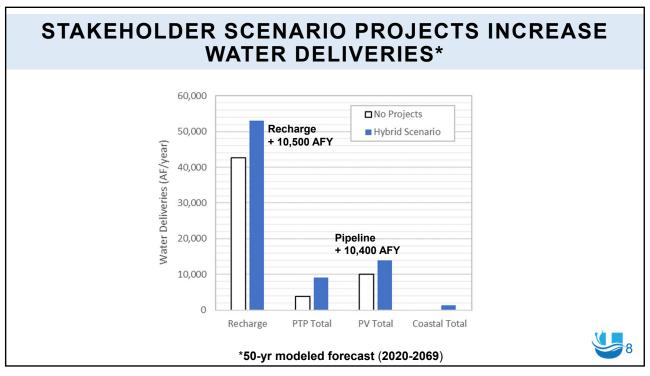






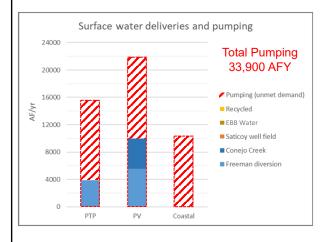




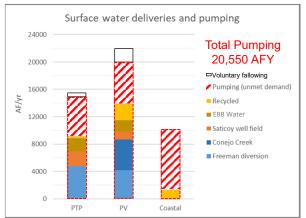


STAKEHOLDER SCENARIO PROJECTS REDUCE PUMPING NEAR COAST BY 39%

Without projects (no pumping reductions)



Stakeholder Scenario (SW barrier, new supplies & optimization)





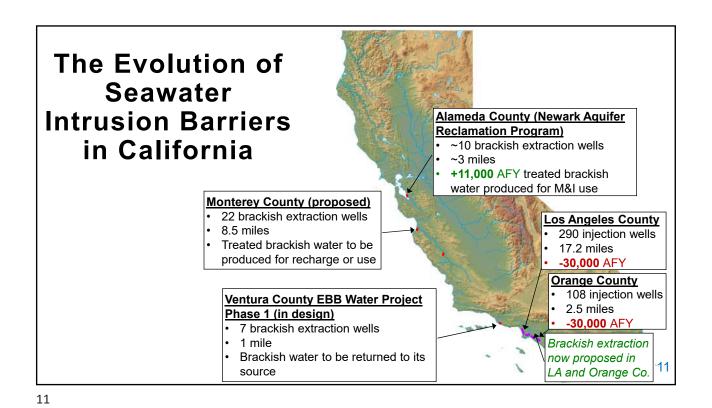
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THE BOTTOM LINE

Modeling results show that the EBB Water extraction barrier

- + new and expanded water-supplies proposed by stakeholders
- = Sustainable yield (without reducing current Ag and M&I pumping)
- Effective mitigation of nearly all seawater intrusion in our aquifers
 - Equal to or better than mitigation provided by "Reduction with Projects" scenario in the GSPs for the OPV Basins
- EBB Water and other projects provide improved groundwater quality





COMPARISON OF STAKEHOLDER SCENARIO TO GSP "REDUCTION WITH PROJECTS" SCENARIO

Issue	Stakeholder Scenario	GSP "Reduction with Projects" Scenario
Change in water supply compared to current use	No change	-27,000 AFY
Net change in area of seawater intrusion: Oxnard Aquifer	-3,600 acres	-3,800 acres
Mugu Aquifer	-300 to -800 acres	+100 acres
Hueneme Aquifer	+100 to +200 acres	+100 acres
Fox Canyon Aquifer	-100 acres	+400 acres
Grimes Canyon Aquifer	-100 acres	Not applicable
High-quality treated water to NBVC-Pt Mugu and Forebay?	Yes	No

STAKEHOLDER SCENARIO WITHOUT INJECTION: OXNARD AQUIFER SEAWATER PARTICLE TRACKS



Benefits:

- No reduction in total supply (compared to 2017-21 averages) except incentivized fallowing
- Provides new high-quality, sources of water (some are "drought-proof")
- Over 50 years, pulls seawater intrusion in Oxnard Aquifer back south 0.5 to 1.5 miles
- No discharge from UAS to Pacific Ocean southeast from Channel Islands Harbor

Challenges:

• Somewhat higher costs for water



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GSP "REDUCTION WITH PROJECTS" SCENARIO: OXNARD AQUIFER SEAWATER PARTICLE TRACKS



Benefits:

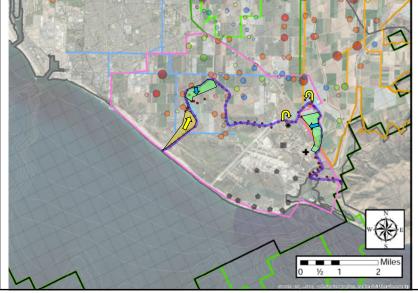
 Over 50 years, seawater intrusion front in Oxnard Aquifer migrates south 0.5 to 0.8 miles

Challenges:

- ~27,000 AFY less local water supplies available to Ag + M&I
- 3,300 AFY discharge from Upper Aquifer System (UAS) to Pacific Ocean
- 1,500 AFY seawater intrusion continues in Lower Aquifer System (LAS)
 - Elimination of seawater intrusion in LAS requires further cutbacks, more discharge to Pacific Ocean



STAKEHOLDER SCENARIO WITHOUT INJECTION: FOX CANYON AQUIFER SEAWATER PARTICLE TRACKS



Benefits:

· Reversal of seawater in east and northwest

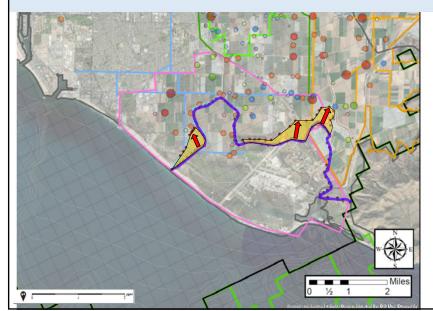
Challenges:

 Minor excursion of seawater intrusion to west



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GSP "REDUCTION WITH PROJECTS" SCENARIO: FOX CANYON AQUIFER SEAWATER PARTICLE TRACKS



Benefits:

None

Challenges:

 Northward and westward expansion of seawater intrusion front



CONCLUSIONS

- The "Stakeholder Scenario" and its variations achieve equal or better mitigation of seawater intrusion than the GSP "Reduction with Projects Scenario"
 - Some improvements possible in all scenarios, including GSP scenario
 - But are they really needed?
 - Optimizing pumping depths and locations is not very impactful when a seawater intrusion barrier is in place (maybe we can save \$60 million?)
- 2. The Stakeholder Scenario does not require large reductions in Ag and M&I water supply
 - However, it requires long-term commitment to both expanding water supplies and mitigating seawater intrusion (even after this drought ends)

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RECOMMENDATIONS

- 1. Ask stakeholders for their input, concerns, questions:
 - Are small advances of the seawater intrusion front in some areas "significant and unreasonable" in context of overall success in mitigating past intrusion?
 - Is recycled water for Ag use going to be available over the long term?
- 2. Further investigation:
 - Better refine benefits of some optimization components vs. costs
 - Conduct detailed transport modeling of preferred scenarios
 - Provides more details regarding future salinity changes in groundwater over time



NEXT STEPS

- 1. Keep moving forward on design of EBB Water
- 2. Keep moving forward on expanding other water supply sources
- 3. Keep updating and refining cost estimates
- 4. Plan stakeholder meetings
- 5. Plan additional modeling—transport and subsidence
- 6. Plan for 5-year update of GSPs, based on Stakeholder Scenario
 - Hard to envision why a rampdown would be needed



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Questions?



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Motion Item 5.1

Contract Amendment with Stantec for Vertical Slot Fish Passage Alternative

- ☐ Contract Amendment with Stantec for \$150,820
 - ❖ Additional Engineering Design Updates to include:
 - continued support to address agency comments on the physical modeling for submittal, in accordance with the latest stipulated order;
 - continued support provided by principal-level staff throughout the remainder of the physical modeling;
 - o 3D drawings development in support of the design; and
 - o CFD modeling software refinement.

