

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



UNITED WATER CONSERVATION DISTRICT  
“Conserving Water since 1927”

General Manager  
Mauricio E. Guardado, Jr.

Legal Counsel  
David D. Boyer

**MINUTES**  
**REGULAR BOARD MEETING**  
**Wednesday, January 10, 2018, 12:00 P.M.**  
**Board Room, UWCD G.I. “Irv” Wilde Headquarters**  
**106 North 8<sup>th</sup> Street, Santa Paula, California**

**Directors Present:**

Robert Eranio, President, Division 3  
Daniel C. Naumann, Vice President, Division 6  
Michael W. Mobley, Secretary/Treasurer, Division 2  
Sheldon G. Berger, Division 7  
Bruce E. Dandy, Division 5  
Edwin T. McFadden, Division 1  
Michael W. Mobley, Division 2

**Directors Absent:**

Lynn Maulhardt, Division 4

**Staff Present:**

Mauricio E. Guardado, Jr., General Manager  
David Boyer, Legal Counsel, AALRR  
Anthony Emmert, Deputy General Manager  
Tony Morgan, Deputy General Manager/Groundwater Resources Manager  
Tina Rivera, Chief Financial Officer  
Mike Ellis, Chief Operations Officer  
Jim Grisham, Engineering Manager  
Christy Ramirez, Executive Coordinator  
Katherine Ayers, Assistant Ecologist  
Brian Collins, Electrical and Instrumentation Supervisor  
Pete Cervantes, Recharge O&M Work II  
Lynne Cope, Accountant I  
Dan Detmer, Supervising Hydrogeologist  
Kelly Johnson, Recharge O&M Worker II  
Ofelia Leon, HR Administrator  
Murray McEachron, Senior Hydrologist  
Craig Morgan, Senior Engineer  
Lourie Schaffer Hyde, Accounting Technician III  
Kris Sofley, Executive Assistant/Clerk of the Board  
Clayton Strahan, Senior Park Services Officer

**Visitors Present:**

Steve Hongola, Rincon Consultants  
Mark Jurgenson, Wellhead Electric

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Jeanette Lombardo, Global Water Innovations  
Aubrey Mescher, Rincon Consultants  
Chris Williamson, Wellhead Electric

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

President Dandy called the Board meeting to order. He then asked Legal Counsel (Mr. Boyer) to announce the topics for discussion in Executive Session. Mr. Boyer reported that, as detailed in the agenda's Exhibit A, in Executive Session the Board would discuss item 1.1 Discussion of real property negotiations pursuant to Government Code §54956.8 and items 2.1 A.-D. Conference with Legal Counsel – Existing Litigation, pursuant to Government Code §54956.9 (d)(1). President Dandy asked if there were any public comments regarding Executive Session items or general comments, none were offered.

**1.2 EXECUTIVE (CLOSED) SESSION 12:04 P.M.**

The Board convened to Executive (Closed) Session to discuss items listed in Exhibit A. District Counsel Jane Usher and William Carter of Musick Peeler & Garrett and Jared Mueller of Somach Simmons & Dunn, participated via teleconference.

**2. SECOND OPEN SESSION AND CALL TO ORDER 1:42 P.M.**

**2.1 Pledge of Allegiance**

President Dandy led the group in the Pledge of Allegiance.

**2.2 Public Comment  
Information Item**

President Dandy asked if there were any public comments regarding today's agenda or any other matters for the Board's consideration. No public comments were offered.

**2.3 Approval of Agenda  
Motion**

Motion to approved the agenda as is, Director Mobley; Second, Director Eranio. Voice vote: Six ayes (Berger, Dandy, Eranio, McFadden, Mobley and Naumann); none opposed; one absent (Maulhardt). Motion carries 6/0/1.

**2.4 Oral Report Regarding Executive (Closed) Session  
Information Item**

President Dandy asked District Legal Counsel David D. Boyer if there was any action to report resulting from Executive Session, Mr. Boyer stated that there was no action to report.

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### **2.5 Board Communication**

#### **Information Item**

Director Mobley reported that he attended the Special Board meeting on December 18, the Mound Basing GSA and the Fox Canyon GMA meetings.

Director McFadden reported that he had attended the Recreation Committee meeting on December 19, the Groundwater Committee meeting on January 8 and had spent the rest of the time “putting out fires, literally.”

Director Berger reported that he had attended the AWA Board of Directors Meeting, the Finance Committee Meeting on January 9, and the Special Board Meeting on December 18.

Director Naumann reported that he had attended the Special Board Meeting on December 18, the Groundwater Committee meeting on January 8, the Finance Committee meeting on January 9 and that he and President Dandy had attended the Calleguas Municipal Water District Board of Directors meeting on December 20.

Director Eranio reported that he had participated in the Groundwater Committee meeting on January 8, the Executive Committee meeting on January 4, Fox Canyon GMA Special Board meeting on January 3, the Fox Canyon GMA Board meeting review with UWCD staff, and the Agenda Review meeting with President Dandy and Mr. Guardado on January 9.

President Dandy reported that he attended Oxnard Chamber of Commerce Water Issues Committee meeting on December 18 and United’s Special Board Meeting on that same day, the Executive Committee meeting on January 4 and the Agenda Review meeting with Director Eranio and Mr. Guardado on January 9.

Director Berger added that he wanted to remind the Board and staff that Eric Bolt from the U.S. Weather Service would be presenting at the AWA Breakfast on January 18 in Oxnard. President Dandy added that on the third Monday in March (March 19), from 12noon to 1pm, the Oxnard Chamber of Commerce’s Water Issues Committee would be presenting a special “meet and greet” luncheon with the City of Oxnard’s new Public Works Director Rosemarie Gaglione, and that interim Director Thien Ng and Water Manager Omar Castro would also be on hand to discuss the city’s capital improvement projects and water rates.

### **2.6 General Manager’s Report**

#### **Information Item**

General Manager Mauricio E. Guardado, Jr., reported to the Board that his recent trip to Sacramento to attend the State Water Contractors meetings

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was very successful in that it provided an opportunity for him to meet with grant decision makers from the Department of Water Resources (DWR) and the State Water Resources Quality Control Board (SWRQCB). The meetings were organized by The Gualco Group's Bob Gore and yielded helpful insights and suggested actions which staff are following up with currently. Mr. Guardado also reported that there have been executive changes at DWR, most notably that Grant Davis has left his post after only five months and has been replaced by Karla Nemeth. Mr. Guardado also said that in speaking with Dennis Cardoza, the Ad Hoc Legislative Committee should meet soon to discuss a potential follow-up visit to D.C. in February.

Mr. Guardado reported that the District had hired a new employee in the Operations and Maintenance department and invited Mike Ellis to introduce the newest staff member. Mike Ellis then introduced the Board to Pete Cervantes, who is a Recharge O&M Worker II in Saticoy. Mr. Cervantes thanked the Board and said he was happy to be working for the District.

#### **2.7 Mid-Year Review – Mauricio E. Guardado, Jr.** **Information Item**

Mr. Guardado reported on the mid-year achievements resulting from the District's staff efforts and also correlated those achievements to the goals and objectives set forth by the Board of Directors.

Among the highlights of the report were the Passage of AB 552, implementation of the District's new financial software, grant funding for installation of SCADA integrated metering system for the District's PTP system, and one OH and two PTP well/pump rehabilitation projects among others under the District's goal of managing resources.

Under the heading of protecting resources, achievements included federal legislative outreach, preliminary Sustainability Yield Modeling in support of Fox Canyon GMA, pilot study for Quagga Mussel eradication and revision and submission of the District's Habitat Conservation Plan.

As part of the District's efforts in the conservation of resources, achievements include changes/revisions to PMC's operating agreement at Lake Piru which cut costs by approximately \$150,000 plus revenue increase of \$65,000 for increasing film production activities, the establishment of Groundwater Sustainability Agencies for the Mound Basin and Fillmore and Piru Basins, PTP and OH well sequence program which resulted in electrical power efficiencies and cost saving, and the cooperative interconnection study with Calleguas, Casitas and Ventura Water.

Under the heading of enhancing resources and relationships, achievements included diversifying investments and increasing contribution amount in

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Ventura County pool, ability to fund Article 21 supplemental water, District's study and outreach related to economic impact of decreased water diversions at Freeman Diversion, progress in developing Recycled Water projects and the 90<sup>th</sup> Anniversary celebration which garnered wonderful support from constituents, elected officials, other water agencies and others and continues to build positive recognition for the District through video interviews and photos from the event that have been posted online and with various social media platforms.

### **2.8 Election of Officers**

#### **Motion Item**

President Dandy expressed his gratitude for being able to lead the Board and the District over the past two years and spoke about his wishes for the District moving forward. He then asked the Board to address the nomination and election of the three officers one by one, starting first the nomination of a Board President.

Director Berger nominated Director Robert Eranio for president of the Board; Second, Director Mobley. Then Director McFadden nominated Director Dan Naumann for president of the Board; Second, Director Naumann. Roll call vote: four votes for Director Eranio as president (Berger, Dandy, Eranio, Mobley) and two votes for Director Naumann (McFadden, Naumann), one absent (Maulhardt). Director Eranio was elected as Board President 4/2/1.

Director Berger nominated Director Dan Naumann for vice president of the Board; Second, Director Eranio. Six votes for Director Naumann (Berger, Dandy, Eranio, McFadden, Mobley, Naumann), none opposed, one absent (Maulhardt). Director Naumann was elected as Board Vice President 6/0/1.

Director Berger nominated Director Mike Mobley for secretary/treasurer of the Board; Second, Director Naumann. Six votes for Director Mobley (Berger, Dandy, Eranio, McFadden, Mobley, Naumann), none opposed, one absent (Maulhardt). Director Mobley was elected as Board Secretary/Treasurer 6/0/1.

President Eranio assumed the dais position of the Board president, with Director Mobley moving into President Eranio's previous seat, next to the Board president. Director Dandy moved next to Director Berger, which moved Director Maulhardt between Mobley and McFadden. This is to be the new seating arrangement for the Board's directors.

### **2.9 Staff Service Awards for the Year 2017**

#### **Information Item**

President Eranio presented staff service awards to two employees. Recognizing 10 years of service to the District, President Eranio presented a plaque to Kelly Johnson from the Operations and Maintenance

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department, who currently serves as Lead Recharge O&M Worker in Saticoy.

President Eranio then presented a plaque in recognition of 15 years of service to the District to Lourie Schaffer Hyde, who holds the title of Accounting Technician III in the District's Finance department.

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)**

Motion to approve the Consent Calendar, Director Naumann; Second, Director Berger. Roll call vote: six ayes (Berger, Dandy, McFadden, Mobley, Naumann and Eranio), none opposed, one absent (Maulhardt). Consent Calendar approved unanimously.

A. **Approval of Minutes**

**Motion**

Approval of the Minutes for the Regular Board meeting of December 13, 2017, Special Board Meeting of December 13 and Special Board Meeting of December 18, 2017.

B. **Groundwater Basin Status Reports**

**Information Item**

Receive and file Monthly Hydrologic Conditions Report for the District.

C. **Monthly Investment Report**

**Information Item**

Receive and file 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.

4. **MOTION ITEMS (By Department)**

**Administrative Department – Christy Ramirez and Tina Rivera**

4.1 **Award District Banking Services**

**Motion**

President Eranio asked Ms. Rivera if any larger banks were considered by the District, to which she replied that the District's request for proposals was sent to several larger banks but those banks were non-responsive.

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Director Dandy inquired about the cost of converting from the District's current banking institution to the staff recommended Bank of the Sierra. Ms. Rivera stated that equipment for electronic transmissions was provided by the bank and was included in the proposal and that since checks are printed on an individual as needed basis conversion costs were minimal and mainly covered the printing of deposit slips and stamps for endorsing check payments.

Director Mobley said that Bank of Sierra was a strong institution, and was in favor of supporting staff's recommendation as the convenience of having a local bank seemed efficient as well.

President Eranio asked if there were any public comments or further questions from the Board for Ms. Rivera. None were offered.

Motion to support staff's recommendation to award the District's banking to Bank of the Sierra, Director Dandy; Second, Director McFadden. Roll call vote: four ayes (Dandy, McFadden, Mobley, Eranio); two opposed (Berger, Naumann); one absent (Maulhardt). Motion carries 4/2/1.

### **Engineering Department – Jim Grisham**

#### **4.2 Authorize Contract with Stantec to develop a vertical slot fish ladder as a Freeman Diversion Fish Passage Facility alternative**

##### **Motion**

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

Director Naumann commented that the vertical slot fish ladder design had been supported by National Marine Fisheries Services (NMFS) previously.

Director McFadden asked about the cost of the project. Mr. Grisham responded that all in, it was a \$40 million dollar project and that the 2010 study could work with major modifications.

Director McFadden asked if it would be less expensive than other designs. Mr. Grisham said that it involved a lot of concrete and that while no physical modeling would be required, creating computer generated imagery (CGI) models instead, it would only save about \$500,000.

Director Naumann added that the Finance committee had reviewed the motion and endorsed it as it moves the District closer to receiving a take permit.

Motion to authorize the General Manager to execute a professional services agreement with Stantec Consulting Services Inc. (Stantec) in the amount of \$179,000 to provide analysis of a vertical slot fish ladder as a Freeman

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Diversion Fish Passage Facility alternative, Director Naumann; Second, Director Mobley. Roll call vote: Six ayes (Berger, Dandy, McFadden, Mobley, Naumann, Eranio), none opposed, one absent (Maulhardt). Motion carries 6/0/1.

### **4.3 Proposed Option and Easement Terms between United Water Conservation District (“Owner”) and (“Grantor”) and Wellhead Energy, LLC (“Wellhead”) and (“Grantee”) Granting Wellhead Energy, LLC, an Exclusive Option for an Air Space Rights Easement for a Potential Electricity Generation Facility and Permission to Apply to Southern California Edison for an Interconnection Feasibility Study** **Motion**

Mr. Grisham introduced Mark Jurgensen of Wellhead Electric, the parent company of Wellhead Energy, and Chris Williamson, retired principal planner from the City of Oxnard who is working as an independent consultant to help shepherd the project through CEQA, county permits and other issues. Mr. Jurgensen described Wellhead Energy and its background and experience with other solar projects, including an installation at Elk Grove. Mr. Jurgensen then informed the Board that he was hoping to ‘fast track’ the term sheet in order to get the project in front of Southern California Edison who would need to evaluate the interconnect issues of the project before it could move forward.

Director Berger said that while he endorsed the potential project, he thought the rate or fees being proposed by Wellhead Energy were too low and needed to be negotiated at a higher rate.

Director Naumann asked if the term sheet, exclusive air rights easement option and contract had been reviewed by District’s legal counsel. District Legal Counsel David Boyer said that things needed to be added to the term sheet.

Mr. Boyer suggested that the Board could authorize the General Manager to negotiate the term sheet and the Board could approve it at a later date, or grant the General Manager the authority to negotiate and approve the term sheet.

Director Berger than stated that he didn’t care who signs off on the agreement, but he didn’t like being pressured. He was comfortable with giving the GM authority with legal review.

Janette Lombardo, Global Water, then asked how maintenance and silt remover was going to work with all the big trucks and equipment trying to negotiate between the posts holding up the solar panels. Mike Ellis said that maintenance requirements and the size of equipment was something Wellhead was able to factor into its construction plan. Mr. Grisham said

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that cleaning out the recharge basins could be less efficient and there should also be consideration of damage and repair to panels.

Director McFadden said he thought it was a clever way to generate revenue and, by his math, the revenue generated could pay for 2600 AF of water.

Motion to authorize the General Manager to negotiate and finalize the Term sheet, with legal review, consistent with future Easement and Option Agreement between United Water Conservation District and Wellhead Energy, LLC, Director Dandy; Second, Director Mobley. Roll call vote: Six ayes (Berger, Dandy, McFadden, Mobley, Naumann, Eranio), none opposed, one absent (Maulhardt). Motion carries unanimously 6/0/1.

### 5. PRESENTATIONS AND MONTHLY STAFF REPORTS (By Department)

#### Administration Services – Tina Rivera and Christy Ramirez

##### 5.1 Monthly Administrative Services Department Report – Tina Rivera Information Item

Ms. Rivera said the only thing she had to add to her staff report was an update on the mailing of the groundwater statements at the end of the year. Typically, she said, this process takes weeks, but with the new accounting software, it now takes a day or two to generate and mail statements. She added that new laptops had been received and set up for Directors. President Eranio asked if there were any questions from the Board for Ms. Rivera. None were offered.

#### Outreach, Legislative, Grants and Training Report – Christy Ramirez

##### 5.2 Outreach, Legislative, Grants and Training Report Information Item

Ms. Ramirez reported that the GM's recent trip to Sacramento had generated several good "fits" for grants from SWRQCB. Ms. Ramirez also reported that Mr. Morgan had presented the District's Economic Impact of reduced diversions at the Freeman to the Ventura County Board of Supervisors and Fox Canyon GMA. She also reiterated Mr. Guardado's report of executive changes at DWR. She is continuing to work with Kennedy/Jenks on seeking grant funding opportunities, currently pursuing a grant for the Iron and Manganese Treatment project at El Rio. President Eranio asked if there were any questions from the Board for Ms. Ramirez. None were offered.

**Engineering Department – Jim Grisham**

**5.3 Monthly Engineering Department Report  
Information Item**

Mr. Grisham reported that, as evidenced by the photo of the penstock in his report, the Quagga mussels that had been cleaned out in June with the water release are back and larger. He also said that on February 6 and 7, there would be a second Board of Consultants meeting in Sacramento with the Division of Safety of Dams (DSoD) and FERC. President Eranio asked if there were any questions from the Board for Mr. Grisham. None were offered.

**Environmental Planning and Conservation Department – Anthony Emmert**

**5.4 Monthly Environmental Planning and Conservation Department  
Report  
Information Item**

This was a summary report on the Engineering department's monthly activities. President Eranio asked if the Board had any questions or comments. None were offered. President Eranio asked if there were any questions or comments from the public. None were offered.

**5.5 Quagga Mussel Management Efforts Update  
Information Item**

This was a summary report on the ongoing management and monitoring efforts related to the Lake Piru quagga mussel infestation. President Eranio asked if the Board had any questions or comments. None were offered. President Eranio asked if there were any questions or comments from the public. None were offered.

**Groundwater Department – Tony Morgan**

**5.6 Monthly Groundwater Department Report  
Information Item**

Summary report on monthly Groundwater Department activities. President Eranio asked if the Board had any questions or comments. None were offered. President Eranio asked if there were any questions or comments from the public. None were offered.

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### **5.7 Update on the Fillmore and Piru Basins and the Mound Basin Groundwater Sustainability Agencies**

#### **Information Item**

Summary report on the monthly activities of the two Groundwater Sustainability Agencies (Fillmore and Piru Basins and Mound Basin) which the District serves as a member director. President Eranio asked if the Board had any questions or comments. None were offered. President Eranio asked if there were any questions or comments from the public. None were offered.

### **Operations and Maintenance – Mike Ellis**

### **5.8 Monthly Operation and Maintenance Department Report**

#### **Information Item**

Mr. Ellis reported on monthly operations and maintenance of District facilities. He provided an update on the purchase of 10,000 AF of Article 21 water earlier this year, telling the Board that DWR has since decided that, due to release delays caused by Castaic Lakes' need to repair the penstock cone valve, the water purchased by the District was being reclassified as Table A water. Staff has had conference calls with Casitas' Neal Cole and DWR's contract administrator Craig Trombly, who concurred that the delays in delivery were beyond the District's control, but Mr. Trombly retired before the issue was resolved. Casitas is working with the District to resolve the designation issue with DWR.

Director Berger asked why it took so long for DWR to re-designate the water and at what point does the GM intervene to get North and South on the same page.

Mr. Guardado clarified that since Grant Davis left DWR so abruptly, he was going to wait a bit longer for Mr. Wickstrum to resolve the issue. However, Mr. Guardado said that he has documentation ready to go but since Mr. Ellis and Murray McEachron were still in the process of making calls and the District has not been charged yet, he thinks the District will be able to resolve the matter shortly.

Director Naumann suggested that the District make Assemblymember Jacqui Irwin aware of the situation.

Director Mobley asked if the District had been billed from Casitas yet. Mr. Guardado responded that the District had paid for the Article 21 water and followed all protocols, but since this is essentially an accounting error, the District has to go through all the proper levels to resolve the error.

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Anthony Emmert added that the southern staff at DWR are supporting the District's argument, however, DWR's contract administration staff, all located in the department's northern offices, are the ones not acknowledging the problem.

Director Dandy asked what the dollar difference was between Article 21 and Table A water purchases from the State. Mr. Guardado answered that Article 21 water was purchased at \$194 AF, while Table A water purchases are billed through Casitas and Ventura's allocations at \$234 AF, but the greater impact is that the District loses the water and he's not going to let that happen.

Director Dandy asked if an agreement on the Table A water had been reached yet. Mr. Ellis said that Casitas is okay and the City of Ventura has been delayed due to the Thomas Fire, but there is an agreement for Casitas' Table A water allocation. Ventura Water is waiting to communicate with its City Council to get consent and legal review of the agreement. Mr. Ellis had given Ventura Water a copy of Casitas' contract with the District for review.

Mr. Guardado said that more details would be explained during the Strategic Planning Workshop, including bringing new water into the region and the Board needs to be prepared for future opportunities by having cash on hand and the relationships to work out water transfers.

Mr. Ellis then invited Brian Collins to the lectern. Mr. Collins gave the Board a presentation on SoCalREN, a program that helps the District function and operate more efficiently by saving energy which also generates cost savings. The program identified five pumps that had an overall pumping efficiency (OPE) rating of "poor." By performing rehabilitation on the five wells and adopting a pump sequencing optimization process, the District's wells are running more efficiently, generating a 300 percent savings on energy costs.

Mr. Collins then reported that the District's desilting cleanout project at the Saticoy recharge basins yielded more cost savings. The project had been estimated to cost \$338,000 based on outside contractor estimates. However, using District staff and renting heavy equipment, District staff was able to remove 57,000 cubic yards of silt and completed the project for only \$102,000. That represents a cost savings of \$236,000.

**Park and Recreation Division – Clayton Strahan**

**5.9 Monthly Park and Recreation Department Report  
Information Item**

Summary report on operations and items of note relative to the Lake Piru Recreation Area. President Eranio asked if the Board had any questions or comments. None were offered. President Eranio asked if there were any questions or comments from the public. None were offered.

**7. ADJOURNMENT 3:48p.m.**

The Board will adjourn to the **Regular Board Meeting on Wednesday, February 14, 2018** or call of the President.

ATTEST:   
Director Michael W. Mobley, Secretary/Treasurer

I certify that the above is a true and correct copy of the minutes of the Board of Directors meeting of January 10, 2018.

ATTEST:   
Kris Sofley, Clerk of the Board



# Mid Year Accomplishments 2017-18

## MANAGE

- Passage of AB 552
- Financial Software Implementation
- Staff Cross Training
- Adopted Debt Management Policies
- Freeman Diversion desilting basin cleanout (40,000 cubic yards of materials removed)
- Installation of 2,300 feet of power conduit and wiring (Saticoy Grand Canal gates and equipment)
- Grant Funding for installation of SCADA Integrated Metering System (PTP System)



*United Water Conservation District shall*

**MANAGE, PROTECT,**

**CONSERVE and ENHANCE**

*the water resources of the Santa Clara River, its tributaries and associated aquifers, in the most cost effective manner.*

## MANAGE

- Significant reduction to unfunded liability by close to \$1 million
- One OH and Two PTP Well/Pump rehabilitation projects
- Hiring of New Water Resource Technicians
- Staff expertise and testimony on behalf of ongoing litigation
- Outreach for emergency planning with Piru Neighborhood Council and Ventura County OES



## GOALS

1. Develop a plan to maximize our State Water Project (SWP) to Region
2. Maximize Recycled Water from City of Oxnard Advanced Water Purification Facility (AWPF)
3. Complete Piru Solar Power Phase 1 Project
4. Complete OH Agreement process
5. Groundwater Model/Water Sustainability Projects
6. Make significant progress on District Headquarters Building project

**Bonus -- Regional Planning and Collaboration**

## PROTECT

- Federal Legislative Outreach
- Outcome of City of San Buenaventura v UWCD
- Replaced all OH Well control Cabinets and PLCs
- Direct read metering implemented for all OH PTP and Saticoy wells
- Preliminary Sustainability Yield Modeling in support of Fox Canyon GMA
- Pilot Study for Quagga Mussel eradication
- Revision and submission of Habitat Conservation Plan



## PROTECT

- Continued outreach and work with NMFS and consultants on moving the District toward reasonable watershed solutions
- Installation of low-flow metering devices (Freeman Diversion)
- Lake Piru Park Maintenance (roadway, shoulder and fire clearance)
- Juan Fernandez Boat Ramp Clean-Up



## ENHANCE

- 90th Anniversary Celebration
- Diversified Investments and increased amount in Ventura County pool
- Ability to fund Article 21 supplemental water
- Study and outreach related to Economic Impacts of decreased water diversions at Freeman Diversion
- Progress in Recycled Water projects



## CONSERVE

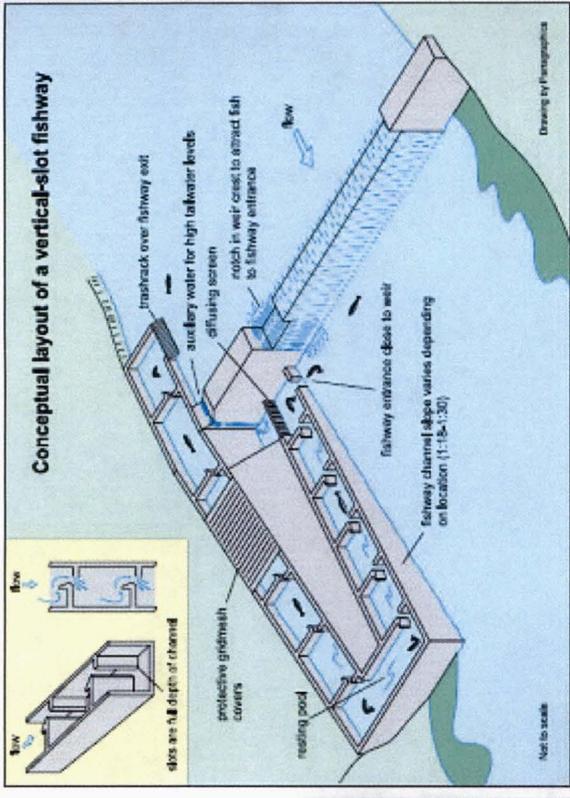
- Changes/revisions to PMC operating agreement at Lake Piru Cut costs by approximately \$150,000 plus revenue increase of \$65,000 for increasing film production/permits
- Groundwater Sustainability Agencies established for Mound Basin and Fillmore and Piru Basins
- PTP and OH Well sequence programming for electrical power efficiency savings
- Lighting CIP Project for electrical power savings



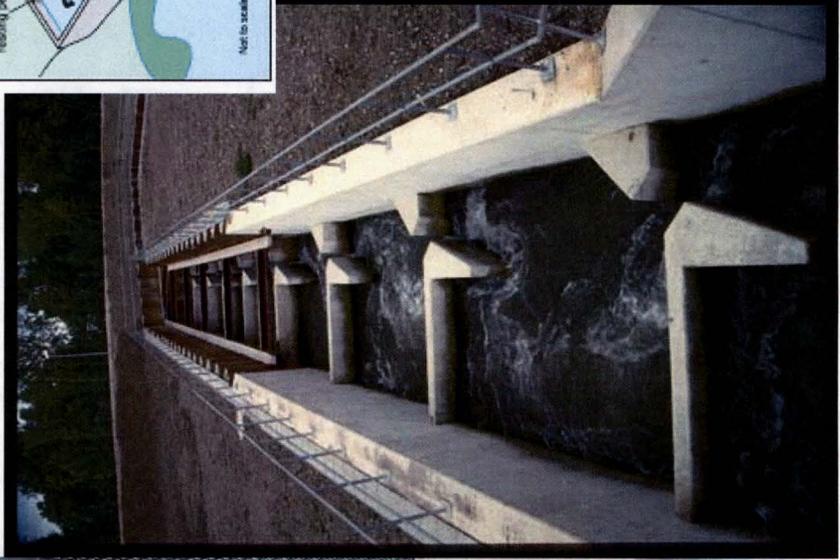
## CONSERVE

- OH Well 18 installation of electrical power and piping manifold
- Cooperative interconnection Study with Calleguas, Casitas and Ventura
- Grant Funding for installation of SCADA Integrated Metering System (PTP System)





# EXAMPLE OF A VERTICAL-SLOT FISH PASSAGE FACILITY



PROPOSED OPTION and EASEMENT TERMS BETWEEN WELLHEAD ENERGY AND UNITED WATER CONSERVATION DISTRICT

JANUARY 10, 2018

PROPOSED OPTION and EASEMENT TERMS

- ▶ The annual fee for the Easement Rights estimated to be \$1,000/acre based on the acreage of the measured air space. Agreement includes annual escalation clause.
- ▶ Both parties shall have the right to request a fair market rental appraisal.
- ▶ Potential for entering into an offtake agreement to which the District would purchase the power.
- ▶ The initial term shall be up to 25 years. WellHead shall have 5 successive options to renew the Easement Term for 3 years.

PROPOSED OPTION and EASEMENT TERMS

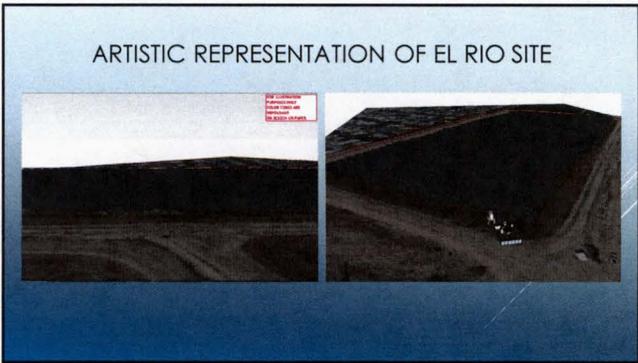
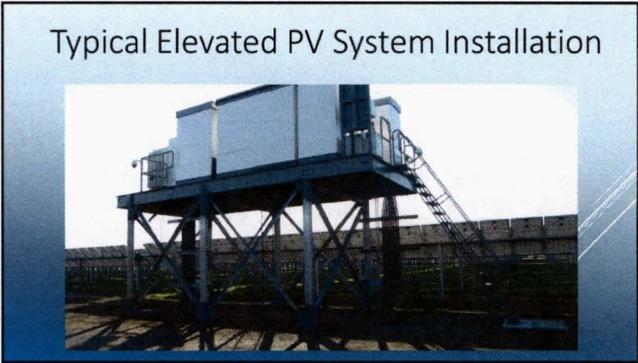
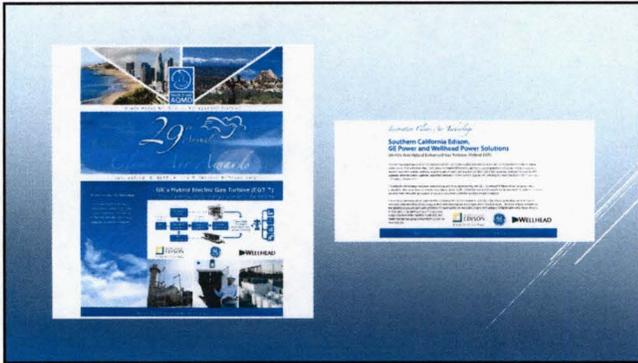
- ▶ SCE Moorpark Local Capacity Requirements (LCR)/Goleta Resiliency Request for Proposals
- ▶ WellHead Energy, LLC is preparing a proposal for the LCR that would include the installation of solar panels in United's groundwater recharge basins.
- ▶ SCE requires WellHead to obtain exclusive air space rights over the basins.
- ▶ The gross area of the basins is approximately 700 acres, less areas reserved for existing levees, canals, well sites, pipelines, reservoirs, structures, and future planned capital improvements.



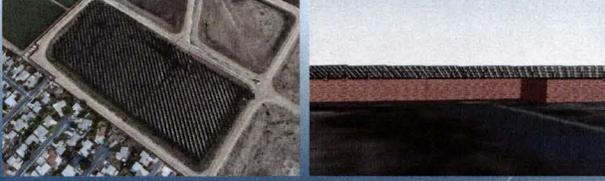
PROPOSED OPTION and EASEMENT TERMS

- ▶ The solar power generation facilities shall not interfere with United's operations and maintenance activities of its groundwater recharge facilities as currently used by United.
- ▶ Five-year Option period. "Exercise Notice." "Easement Agreement." Monthly fee for retaining option.
- ▶ If WellHead is not the recipient of a SCE contract on or before December 31, 2021, then United shall have the right to terminate the option.

Site Name	Site Address	Acreage	Longitude	Latitude
Sutro	NE Side of LA Avenue Hwy 118 & Pacific Milling Road, Ventura, CA 93004	133	34.272	-119.13844
El Rio	New E. Vaerstad Avenue & Loma Avenue, Oxnard, CA 93036	88	34.344	-119.155
Noble's Rose	NE Side of LA Avenue Hwy 118 & Pacific Milling Road, Oxnard, CA 93036	226	34.268	-119.135
Frost	SE Side of Vaerstad, Oxnard, CA 93036	180	34.262	-119.153
Perr	E. Telegraph Road & Tenny Road, Perris, CA 92071	80	34.405	-118.791

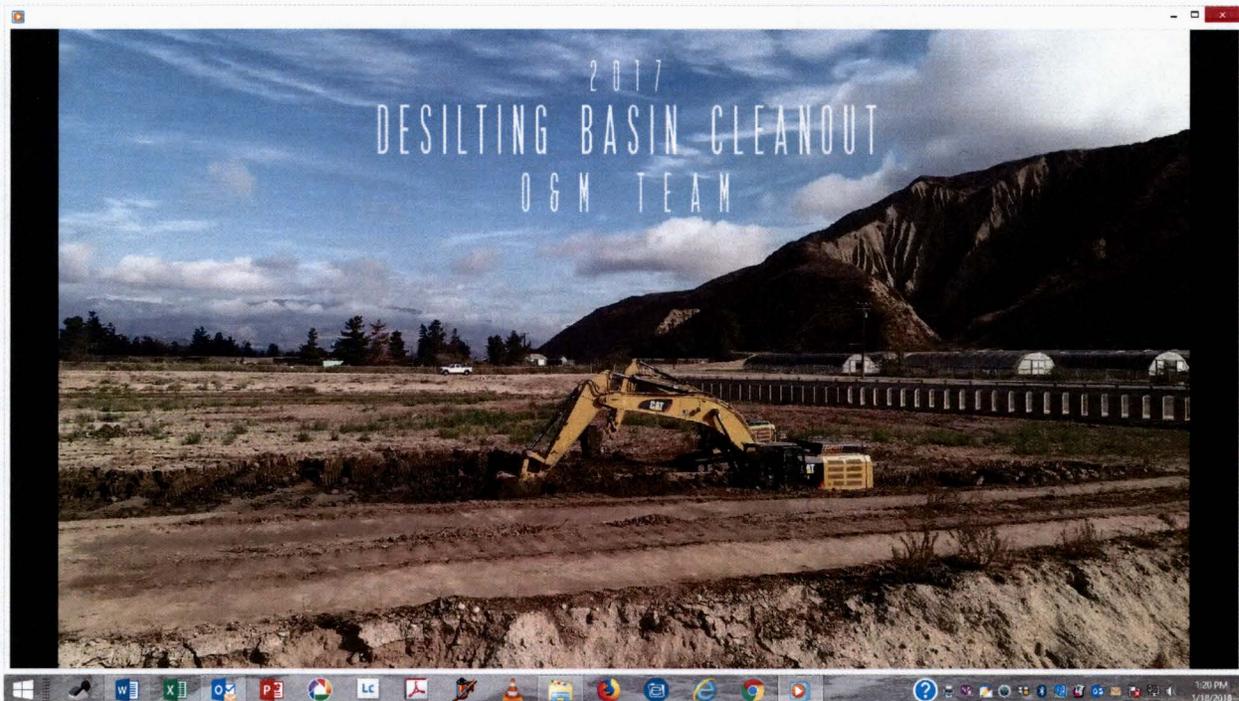


ARTISTIC REPRESENTATION OF EL RIO SITE

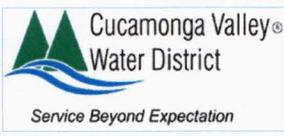


# State Water Update

- ▶ 2017 Article 21 Purchase Issue
- ▶ 2017 Table A Purchase
- ▶ Purchase of Casitas MWD & City of Ventura 2018 Table A Allocations
- ▶ Dry Year Transfer Program (DYTP)



## SoCalREN would like to thank:



**Cucamonga Valley Water District**  
Service Beyond Expectation



12/5/2017 presentation

Southern California REGIONAL ENERGY NETWORK

## United Water Conservation District

**Success with SoCalREN**

**Energy & Environmental Benefits**

Nearly **2.5 million kWh** saved annually  
**226 KW** annual peak demand reduction  
 Equates to **722** metric tons GHG avoidance

**Operational Benefits**

**\$345,000** utility bill savings annually  
**\$149,000** utility incentives captured



**Brian Collins**  
United Water Conservation District

Southern California REGIONAL ENERGY NETWORK

## SoCalREN Water Agencies

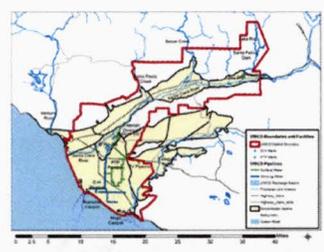


1. City of Monrovia
2. City of Rialto
3. City of Ventura
4. City of Buena Park
5. City of Santa Barbara
6. Cucamonga Valley Water District
7. United Water Conservation District
8. Las Virgenes Municipal Water District
9. Yucaipa Valley Water District
10. Lake Arrowhead Community Services District
11. Running Springs Water District
12. Western Municipal Water District
13. Eastern Municipal Water District

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### Situation Analysis:

UWCD leveraged SoCalREN services to develop a holistic and proactive approach to addressing EE throughout operations. UWCD was motivated to capture retiring incentives for pump upgrades & obtain max benefit from sequencing once ideal OPE achieved for pump system.

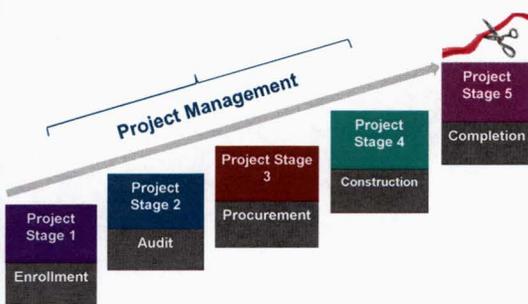


**Projects:**

- Two-Phased Pump Overhaul - 5 wells
- Pump Sequencing Optimization - 17 wells
- Lighting Projects
- Pump VFD

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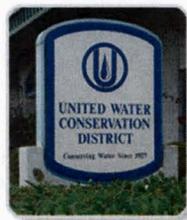
## SoCalREN's Coordinated Approach to Project Delivery



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### SoCalREN Services Leveraged

- ✓ Project Identification
- ✓ Audit Commissioning
- ✓ Financial Feasibility Analysis
- ✓ Project Management
- ✓ Utility Incentives Support Through WISE Program



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### Identifying Inefficiencies

5 pumps with poor OPE (Overall Pumping Efficiency) identified by WISE through review of pump test data.

Pump Station Name	Pump Type	Motor HP	Base OPE	Proposed OPE	Post-Install OPE
OH WELL #2A	TW	100	30.4	69.0	72.1
PTP WELL NO. 3	TW	250	67.8	70.0	76.0
OH WELL #16	TW	100	66.3	69.0	71.9
PTP WELL NO. 2	TW	250	64.1	70.0	76.0
PTP WELL NO. 5	TW	300	54.9	70.0	71.9

### Pump Sequencing Optimization

Completed in November!

Sequencing project solution developed & installed by UWCD Staff:

- OH and PTP pump sequencing - 17 wells 100HP - 500 HP
- Automated pump sequencing system adjusts for water quality constraints
- Energy savings of 1.7 million kWh/year
- Estimated simple payback period of only 8 months
- \$72,850 in incentives captured \*\*

More efficient result than estimated!

### Additional Savings through LED Lighting Retrofits

- Exterior fixtures
- Maintenance Yard, Lake Piru Parking Lot

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### Well Pump Rehabilitation

Before

After

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### Sequencing Solution

Compact Logix Controller

Ethernet SMC

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### Water Quality Solution

Pump overhauls implemented in 2 phases  
Significant OPE and well production improvements

#### UWCD Pump Overhaul - OPE

More efficient output than estimated!

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### Water Quality Solution

SCADA interface overview

Nitrate management

- Primary Control - Power intensity kWh/Aft
- Secondary Control- Nitrate (N) management

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## Project Details

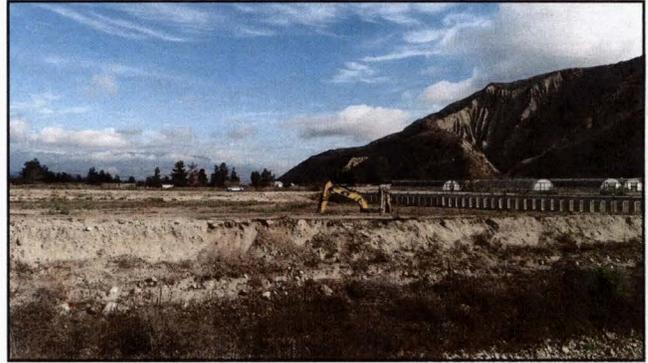


Service Account #	Pumping Plant Name	Pump Type	Motor HP	PA Estimates				RI Verified			
				Estimated Savings (kWh/year)	Estimated Peak kW	Measure Cost (\$)	Estimated Incentive	Verified Savings (kWh/year)	Verified Peak kW	Installed Measure Cost (\$)	Verified Incentive
117282	CH WELL #2A	TW	100	238,654	33.00	\$35,000	\$24,042	296,587	64.01	\$91,417	\$71,328.83
117283	PPWP WELL NO. 5	TW	300	127,334	2.37	\$105,000	\$6,430	134,024	2.38	\$107,723	\$14,726.18
117280	CH WELL #2C	TW	100	26,836	8.66	\$35,900	\$3,006	32,033	16.09	\$34,487	\$4,609.26
167959	PPWP WELL NO. 2	TW	250	63,501	12.09	\$87,500	\$6,893	114,419	19.83	\$82,388	\$74,246.52
117284	PPWP WELL NO. 1	TW	250	41,488	19.73	\$87,500	\$6,813	127,196	19.56	\$99,368	\$13,023.77
<b>PE Totals</b>				<b>483,811</b>	<b>66.14</b>	<b>\$250,000</b>	<b>\$49,426</b>	<b>784,793</b>	<b>110.26</b>	<b>\$419,882</b>	<b>\$72,927.25</b>
				PA Estimates				RI Submitted			
Values: [Pump Sequencing] Values				665,456	67.33	\$283,637	\$55,321	1,736,103	119.86	\$148,324	\$72,856.37
<b>Sequencing Totals</b>				<b>665,456</b>	<b>67.23</b>	<b>\$183,637</b>	<b>\$55,321</b>	<b>1,726,197</b>	<b>118.66</b>	<b>\$148,701</b>	<b>\$72,856.37</b>
<b>SoCalRENWISE Totals</b>				<b>1,059,267</b>	<b>133.37</b>	<b>\$533,637</b>	<b>\$104,747</b>	<b>2,440,990</b>	<b>226.01</b>	<b>\$565,264</b>	<b>\$145,783.72</b>

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REGIONAL ENERGY NETWORK

## 2017 Desilting basin Cleanout Project

**11/15/2017 - 12/15/2017**



### Engineering estimate

United Water Conservation District

**Project:** Desilting Basin Sediment Removal Project DRAFT  
**Estimate:** Engineer's Opinion of Probable Construction Cost  
**Date:** 12/06/2017  
**Estimator:** RUI  
**Cost Ref.:** RS Means 2016 and EPA Cost Curves (1975) Current Historical Index: 211.6

Spec No.	Description	Qty	Unit	Material	Labor	Equipment	Unit Price Subtotal	Historical Index	City Index	Total
31 23 16 43	Excavator, hydraulic, 5 C.Y. bucket, 100% fill factor, /w loading	57,717	B.C.Y.	\$0.00	\$0.17	\$0.87	\$1.04	207.3	103.8	\$64,200
31 23 21 20	34 C.Y. truck, off-road, 15 min. work/load, 15 MPH, cycle 4,000 ft	57,717	L.C.Y.	\$0.00	\$0.39	\$2.11	\$2.50	207.3	103.8	\$154,377
<b>DIV. 02 to 48 Subtotal</b>				\$0.00	<b>\$32,321.52</b>	<b>\$173,996.64</b>	<b>\$206,318.18</b>			<b>\$218,536</b>
	Sales Tax (7.5%)						\$12,899.75			\$12,899.75
<b>DIV. 02 to 48 Subtotal</b>				\$0.00	<b>\$32,321.52</b>	<b>\$186,896.41</b>	<b>\$209,318.18</b>			<b>\$231,427</b>
01 23 55 50	General Contractor, Project Management (10%)									\$23,143
01 33 13 80	Contractor Overhead and Profit (20%)									\$46,285
01 33 13 90	Performance Bond (1%)									\$2,314
01 43 26 50	Permits (1.5%)									\$3,471
01 43 21	Quality Control, Testing and Inspection (2%)									\$4,629
01 54 36 50	Mobilization and Demobilization (5%)									\$11,571
<b>DIV. 01 Subtotal</b>										<b>\$32,843</b>
	Contingency (5%)									\$16,421
<b>DIV. 01 to 48 Project Total</b>										<b>\$338,983</b>

#### United Water Conservation District- Desilting basin project summary

Actual- Staff performed		Engineering estimate	
Equipment Rental-	\$50,422		
Fuel-	\$11,779		
Staff costs-*	\$39,793		
	<b>\$101,994</b>	<b>Total Cost</b>	<b>\$338,983</b>
<b>Statistics</b>			
B.C.Y. removed	57,717		57,717
Total loads	1749		
Average loads/day	83.28		
Working days	21		
Man hours	803		
\$/cubic Yard	\$1.77	\$/cubic yard	\$5.87
<b>District Savings</b>	<b>\$236,989</b>		

\*-Roll up costs included