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Edwin T. McFadden III
Daniel C. Naumann

General Manager
Mauricio E. Guardado, Jr.

Legal Counsel
David D. Boyer

MINUTES
ENGINEERING AND OPERATIONS
COMMITTEE MEETING

Thursday, July 1, 2021, 9:00 A.M.

Board Room

UWCD, 1701 North Lombard Street, Oxnard CA 93030

COMMITTEE MEMBERS PRESENT:

Director Edwin T. McFadden III
Director Daniel C. Naumann
Director Lynn E. Maulhardt, chair

STAFF ATTENDING

Mauricio E. Guardado, Jr., general manager
Dr. Maryam Bral, chief engineer
Anthony Emmert, assistant general manager
Brian Collins, chief operations officer
Joseph Jereb, chief financial officer
Craig Morgan, senior engineer
Robert Richardson, senior engineer
Adrian Quiroz, associate engineer
Erik Zvirbulis, GIS analyst
Josh Perez, human resources manager
Zachary Plummer, IT administrator
Linda Purpus, environmental services manager
Tessa Lenz, associate environmental scientist
Cherie Windsor, environmental services field technician

PUBLIC PRESENT

None

OPEN SESSION: 9:02 a.m.

Director McFadden called the Engineering and Operations Committee Meeting to order at 9:02 a.m.

1. Public Comment

Director McFadden asked if there were any public comments for the Committee. None were offered.

2. Approval of Minutes

Motion to approve the Minutes from the May 6, 2021 Engineering and Operations Committee meeting, Director McFadden; Second, Director Naumann. Voice vote, two ayes (Naumann, McFadden); none opposed; one absent (Maulhardt). Motion carried, 2/0/1.

General Manager Mauricio Guardado requested a reorder of the agenda, for items 3.5 and 4.2 to be presented first.

3. July 14, 2021 Board Meeting Motion Agenda Items

3.5 Approving the procurement of a Long Reach Excavator

Chief Operations Officer Brian Collins addressed the committee regarding a request to recommend approval of the motion item to the full Board which considers authorizing the General Manager to execute the procurement of a long reach excavator in the amount of \$281,000. The committee members agreed to recommend approval of the motion item to the full Board.

4. Project Highlights

4.2 Operations Department Monthly Update

Chief Operations Officer Brian Collins provided updates and slides (see attached) on the Operations and Maintenance department's activities for the month. Mr. Collins stated that Operations undertook a big project on the PTP System which resulted in shutdown for 12 users over a three (3) day period, he added that there was significant stakeholder outreach to ensure that all owners and irrigators were informed of the outage and were able to collaborate through the challenge. The committee members had no further questions.

3.1 Iron and Manganese Treatment Project Construction Management and Inspection Services Contract Award to HDR Engineering, Inc.

Dr. Bral informed the committee of a request to recommend awarding a construction management and inspection services contract to HDR Engineering, Inc., in the amount of \$701,956 (includes 10% contingency or \$63,814 to be used upon written authorization only) and authorizing the General Manager to execute the contract with HDR Engineering, Inc., for construction and inspection services for the Iron and Manganese Treatment Plant to the full Board. The committee members agreed to recommend approval of the motion item to the full Board.

Chair Maulhardt joined the meeting at 9:17 am.

3.2 Iron and Manganese Treatment Project Design Services during Construction Contract Award to Kennedy Jenks Consultants, Inc.

Dr. Bral informed the committee of a request to recommend awarding a design service during construction contract to Kennedy Jenks Consultants, Inc. (K/J), in the amount of \$537,488 (includes 10% contingency or \$48,863 to be used upon written authorization only) and authorizing the General Manager to execute the contract with Kennedy Jenks Consultants, Inc., for design services during construction for the Iron and Manganese Treatment Plant to the full Board.

Dr. Bral also included the revised staff report for agenda item 3.2 (see attached).

Director Naumann stated that everyone is anxiously waiting for this project and asked if Dr. Bral could provide an update on the project time frame. Dr. Bral stated that Engineering is ready to begin construction as soon as the three contracts are awarded. Construction will begin in August of this year and will be complete by October of next year, which is a 16 month duration.

Chair Maulhardt asked for clarification on what design services consist of. Dr. Bral stated that K/J is the primary designer, their scope is to prepare plans and specifications during process and are also responsible for quality control/ assurance during construction. She added, it is typical practice to have the designer and construction manager alongside during the construction phase, their role is to make sure the contractor does not deviate from the design and if so, this deviation would then be captured in the drawings.

Chair Maulhardt then inquired about the role of the construction manager. Dr. Bral stated that the construction manager is the actual boots on the ground, they are looking over the construction contractors' shoulders and ensuring that the specifications are a match.

Chair Maulhardt stated that United has essentially a \$10.5 million dollar contract for this project. Dr. Bral stated that at the OH Users meeting, staff presented the engineering cost estimate. Mr. Guardado stated these costs were also included in the budget workshops. Dr. Bral then stated that we also received grants for this project.

Direct McFadden asked if this is a standard practice, Dr. Bral responded and stated that yes, it is a standard practice. Mr. Guardado requested that staff include detail on the functions of each role for the Board Meeting. Chair Maulhardt stated this is a series of checks and balances and ensures that the \$9 million project cost is constructed correctly. The committee members agreed to recommend approval of the motion item to the full Board.

3.3 Iron and Manganese Treatment Project Construction Contract Award to GSE Construction Company, Inc.

Dr. Bral informed the committee of a request to recommend approval of the motion item to the full Board that considers awarding a contract to the lowest responsible bidder, GSE Construction Company, Inc., in the amount of \$9,342,900 and authorizing the General Manager to execute the contract with GSE Construction Company, Inc. for the construction of the Iron and Manganese Treatment Plant. Dr. Bral stated that United cast a wide net to attract the attention of contractors for this project, because of the market conditions staff expected the bid results to be significantly higher than the engineers cost estimate. Staff selected GSE as the lowest responsible bidder, GSE has been in business for 39 years and specializes in construction of water and wastewater infrastructure. The bid received from GSE is within budget expected for this fiscal year and next fiscal year.

Director Naumann mentioned the rising price of materials and asked what will occur if we cannot obtain an item. Dr. Bral stated that staff is well aware of this issue and has been notified by the design engineer and construction manager that if that occurs, we will

have K/J to look at the equals which meet the design criteria. The committee members agreed to recommend approval of the motion item to the full Board.

3.4 Resolution 2021-16 Approving the CEQA Notice of Exemption Determination for the Lake Piru Water Treatment Plant Slope Repair and Drainage Improvements Project

Dr. Bral informed the committee of a request to recommend approval of Resolution 2021-16 to the full Board that considers approving the California Environmental Quality Act (CEQA) Notice of Exemption (NOE) determination for the Lake Piru Water Treatment Plant Slope Repair and Drainage Improvements Project and authorizing staff to file a NOE for the project with the Ventura County Clerk and Recorder's Office. The committee members agreed to recommend approval of the motion item to the full Board.

4.1 Engineering Department Monthly Update

Dr. Bral provided updates and slides (see attached) on the Engineering department's activities for the month. Dr. Bral stated that the Grand Canal project will be complete by the end of July.

4.3 Environmental Services Department Monthly Update

Environmental Services Manager Linda Purpus provided updates and slides (see attached) on quagga monitoring and control activities. Ms. Purpus stated that the departments plan is to present an Initial Study Mitigative Negative Declaration (ISMND) to the Board in September. Associate Environmental Scientist Tessa Lenz and Environmental Services Field Technician Cherie Windsor provided updates on the quagga activities. Chair Maulhardt stated that Lake Piru level is low and asked if these conditions are setting up for growth of quagga mussels. Ms. Lenz provided an explanation of seasonal stratification in Lake Piru and the potential effects on quagga mussels.

Ms. Lenz provided information on water quality, veliger sampling, adult mussel recruitment, and streambed surveys. Ms. Lenz showed a chart indicating the adult quagga mussel population in the lake has declined since the peak in 2015 and 2016. Director Naumann asked why this is occurring. Ms. Lenz discussed an observed pattern correlating high suspended sediment levels in the lake to a decline in adult mussel population. It has been hypothesized the suspended sediment is smothering the adult mussels in the lake. Director Naumann asked if we could incorporate control or containment measures into the design of the Santa Felicia Dam. Dr. Bral stated that throughout the design evaluations staff has explored epoxy coated steel as it is a material quagga mussel do not attach to, staff is working with GEI to identify alternative options.

Chair Maulhardt inquired if staff has explored solutions downstream. Dr. Bral stated that as staff is advancing the design, staff are more engaged with GEI Consultants and Environmental Staff to find alternatives to contain the release of veligers through the outlet works.

Ms. Lenz stated that scraping of infrastructure is an effective control strategy to protect infrastructure in the lake, Mr. Guardado added that staff has increased the amount of scraping to multiple times a year.

UWCD Engineering and Operations Committee Meeting MINUTES

July 1, 2021

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Chair Maulhardt asked how long these species can survive without water. Ms. Lenz stated that according to research from Richter 2008, Pacific Northwest Aquatic Invasive Species Profile, they can survive for four to 21 days out of water.

Director Naumann asked if staff has a plan in place in case these species travel to Pleasant Valley (PV). Ms. Lenz stated that staff has increased monitoring and sampling in the lower system. In addition, staff has budgeted for a permanent sodium hypochlorite injection facility to treat the lower system.

5. Future Agenda Topics

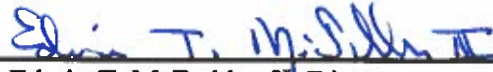
No future agenda topics were offered.

ADJOURNMENT 11:06 a.m.

Director McFadden adjourned the Engineering and Operations Committee meeting at 11:06 am.

I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting of July 1, 2021.

ATTEST:



Edwin T. McFadden II, Director

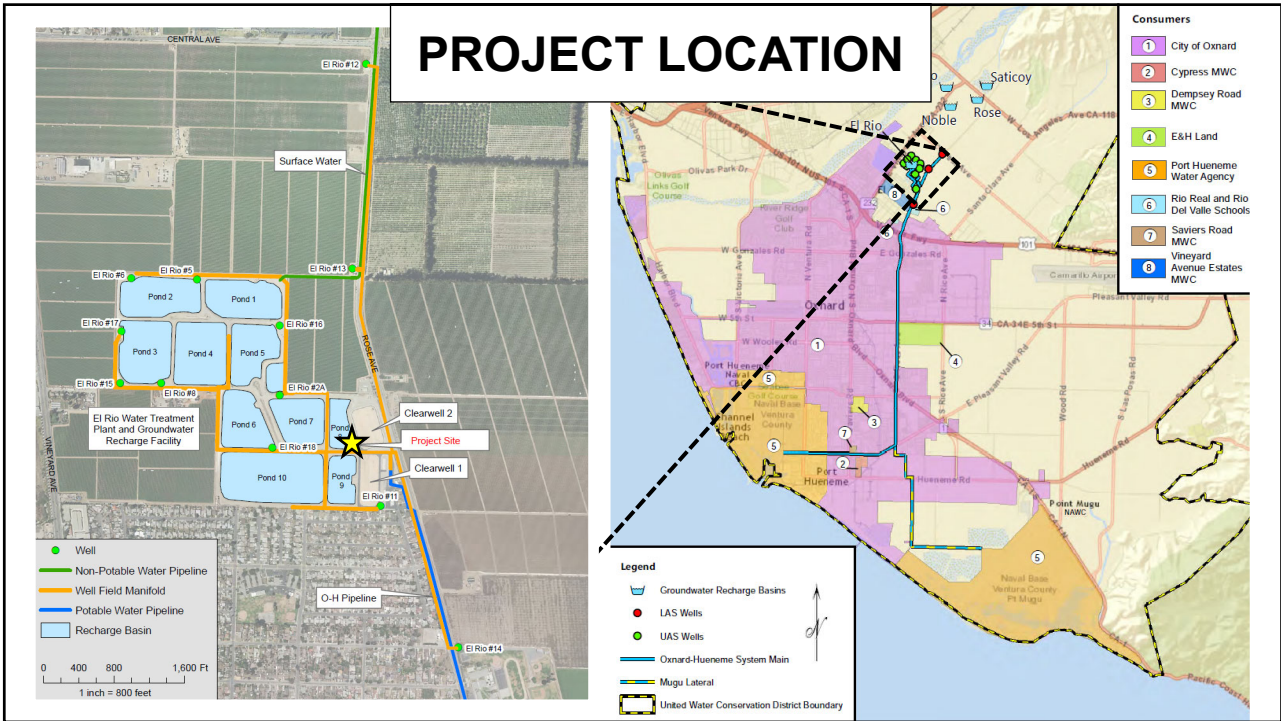


ENGINEERING DEPARTMENT Motion Items

July 1, 2021



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Motion Item

3.1

Iron and Manganese Treatment Project Construction Management and Inspection Services Contract Award to HDR Engineering, Inc.

- ☐ RFQ/RFP released on March 5, 2021
- ☐ 13 Consultants were invited
- ☐ 4 Consultants submitted proposals by April 23, 2021
- ☐ 3 Consultants were interviewed
- ☐ HDR Engineering, Inc. was selected by the interview panel
- ☐ Contract Amount: \$638,140 + \$63,814 (10% contingency) = \$701,956

A photograph showing a group of about ten people standing in a paved area, possibly a parking lot or a construction site. They are dressed in casual business attire. In the background, there is a large, light-colored building with a blue roof. The sky is overcast.


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Motion Item 3.2

Iron and Manganese Treatment Project Design Services during Construction Contract Award to Kennedy Jenks Consultants, Inc.

- ☐ Prepare Conformed Plans and Specifications
- ☐ Respond to Contractor’s Requests for Information (RFI)
- ☐ Respond to Contractor’s Submittals and Shop Drawings
- ☐ Respond to Change Order Requests (CORs)
- ☐ Provide O&M Manual, Operations Plan and startup assistance
- ☐ Prepare Record Drawings
- ☐ Contract Amount: \$488,625 + \$48,863 (10% contingency) = \$537,488

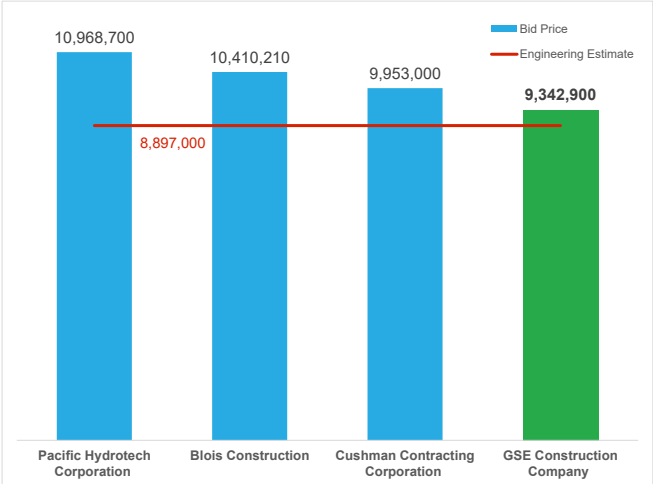



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Motion Item 3.3

Iron and Manganese Treatment Project Construction Contract Award to GSE Construction Company



Company	Bid Price	Engineering Estimate
Pacific Hydrotech Corporation	10,968,700	8,897,000
Blois Construction	10,410,210	
Cushman Contracting Corporation	9,953,000	
GSE Construction Company	9,342,900	




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Motion Item

3.4

Approving the CEQA Notice of Exemption Determination for the Lake Piru Water Treatment Plant Slope Repair and Drainage Improvements Project





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ENGINEERING DEPARTMENT

Monthly Update

July 1, 2021






United Water

CONSERVATION DISTRICT

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Santa Felicia Dam Safety



2020 Annual Security Compliance Certification Letter Approved

Submitted to FERC in December 2020.


FERC approval letter received on June 4 with no comments.

Physical Dam Inspection is Back!

DSOD Dam Inspection on Thursday, June 24


EAP Call-Down Drill

Annual EAP Drill on June 29




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Santa Felicia Dam Safety Improvement Project




- ☐ Response Letter to FERC regarding the request for project schedule extension on June 16, 2021
- ☐ Requested FERC for consultant approval for the BOC on June 24, 2021
- ☐ New contract with Catalyst/Cardno for 30% design development for the new release channel
- ☐ Channel Design Workshop with FERC, NMFS, and CDFW on June 10, 2021
- ☐ Fish Screen Workshop (technical assistance meeting) with FERC, NMFS, and CDFW on June 22, 2021





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Grand Canal Project



Construction Substantially Complete

- ❑ New Headworks hydraulic capacity increased to 500 cfs
- ❑ New Headworks includes
 - 3 new Culverts (18 - 5 ft x 4 ft RCB)
 - 3 new stainless-steel gates (5 ft x 4ft) with 3 new EMOs
 - Concrete headwalls and catwalks
 - Grouted riprap
 - Electrical conduits





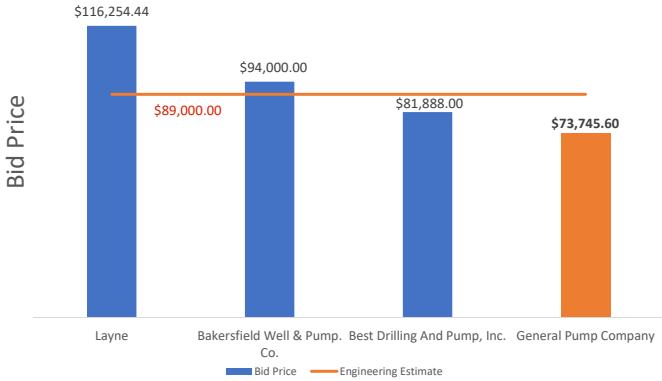
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El Rio Water Well No. 19


Pump and Motor Installation

- Four (4) bids received
- General Pump Company lowest responsible bidder at \$73,745.60
- Agreement with GPC executed on June 14, 2021



Company	Bid Price
Layne	\$116,254.44
Bakersfield Well & Pump Co.	\$94,000.00
Best Drilling And Pump, Inc.	\$81,888.00
General Pump Company	\$73,745.60

Engineering Estimate: \$89,000.00




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OH System Backup Generator Project


- ❑ CalOES approved District’s request for project time extension.
- ❑ The new project completion date is March 26, 2022.
- ❑ Contractor mobilized to the site on June 14.



Demolition of Existing Generator Pad




Over-Excavation and Compaction for the new Pad




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Coastal Brackish Groundwater Extraction and Treatment Project




- Leadership meeting with the Navy on May 26
- Participated in the meeting between with Congresswoman Brownley’s office and the Navy on June 22



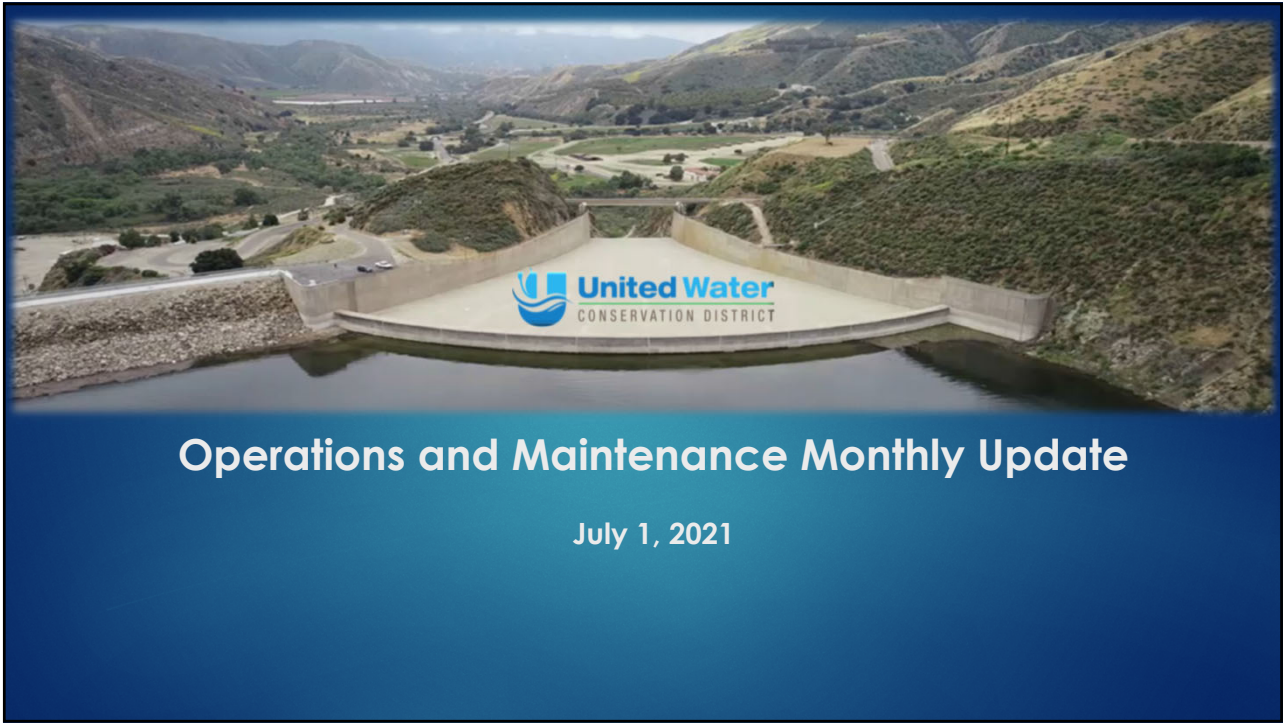
- RFP for CEQA documentation and processing was released on April 21
- Two proposals received on May 21. Interviews scheduled for June 28 and 30



- DWR received a request for time extension for the completion of the groundwater modeling feasibility study report



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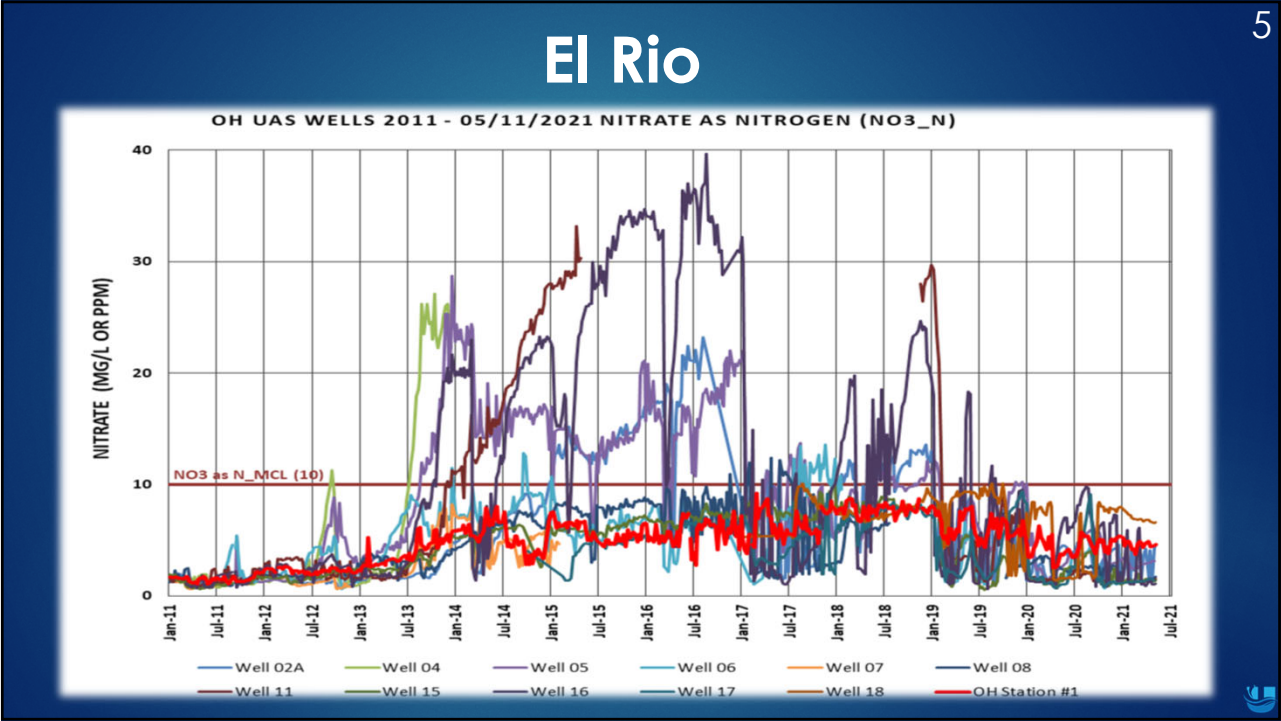
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Questions?

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Environmental Services Department

July 1, 2021

Department Updates

Freeman Sediment Management Program

Freeman Geotechnical Exploration Permitting

Key Highlight

Quagga Mussel Monitoring and Control Plan - 2020 Annual Report Summary

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Quagga Mussel Monitoring and Control Plan 2020 Annual Report Summary



United Water Conservation District

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2020 Annual Report Takeaways

COVID-19 Impacts on Monitoring Program

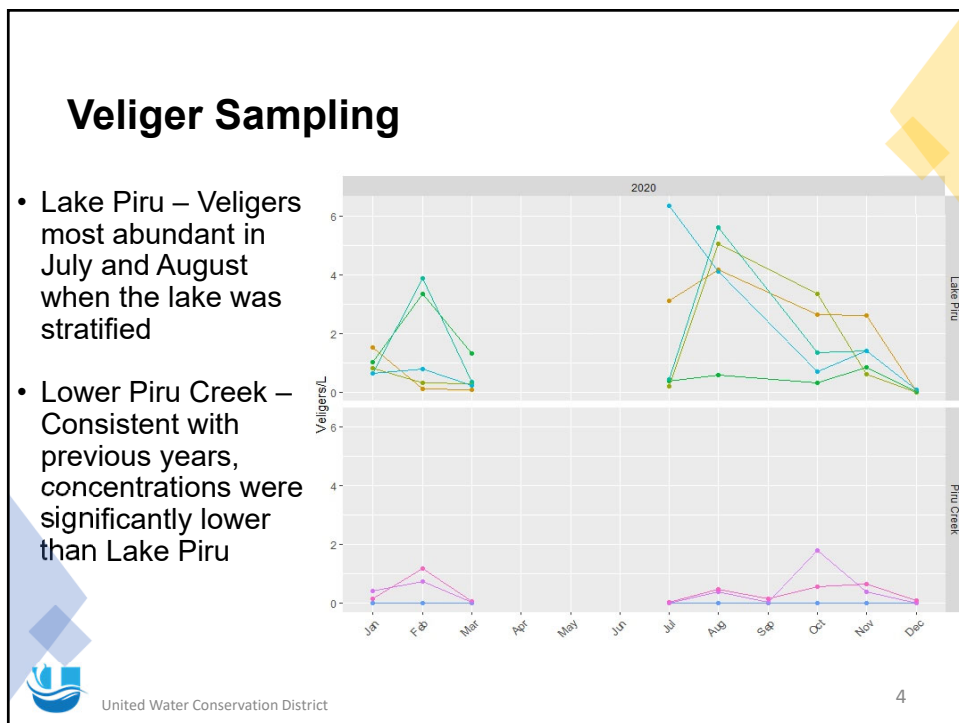
Water Quality

- Lake Piru had year-round favorable conditions to support quagga veligers and adult development
- DO levels fell below viable threshold for veligers at depths below the thermocline in July and August



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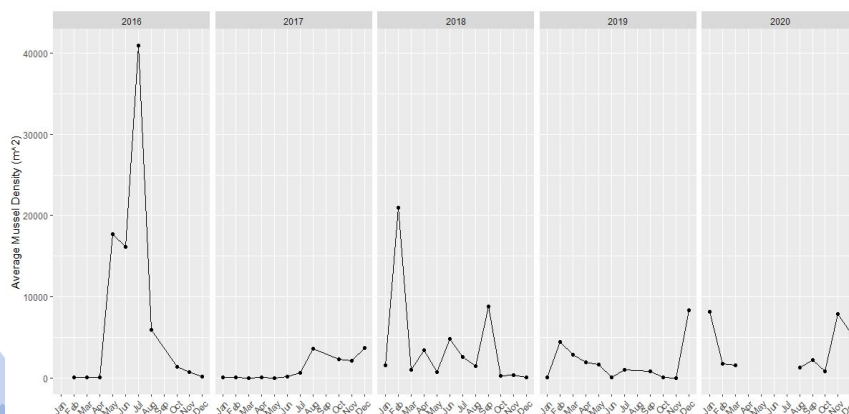
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Mussel Recruitment

Lake Piru Reservoir - highest recruitment in January and November



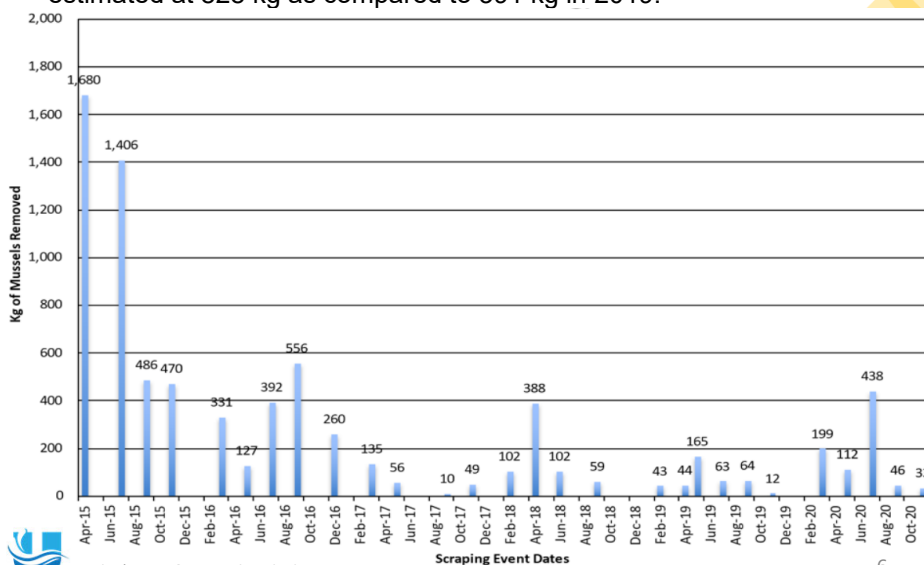
United Water Conservation District

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Infrastructure Scraping Control

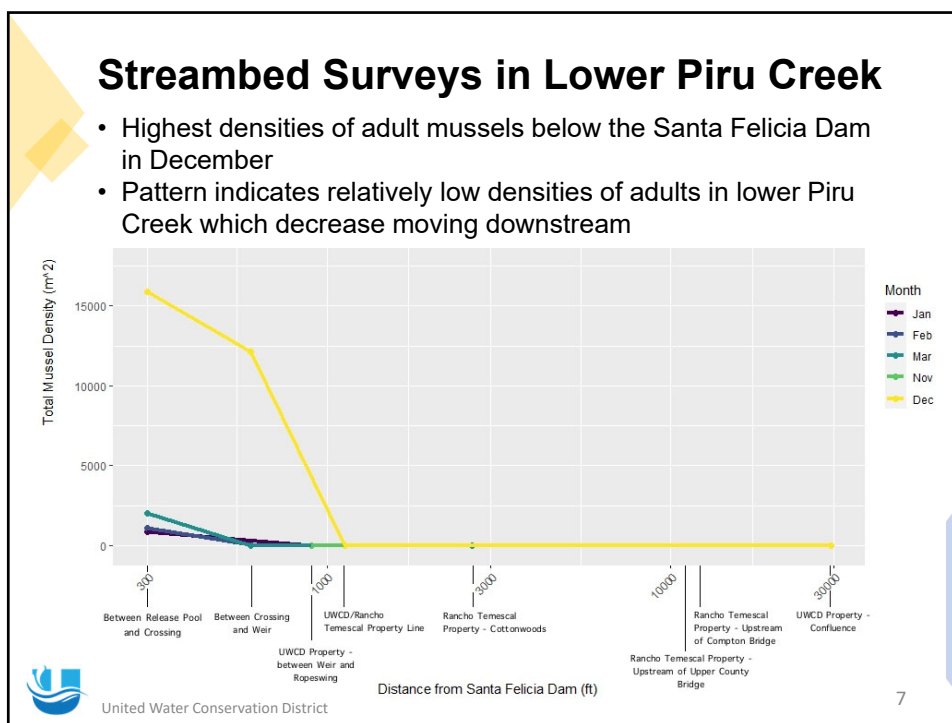
Total mass of mussels scraped from infrastructure in 2020 was estimated at 828 kg as compared to 391 kg in 2019.



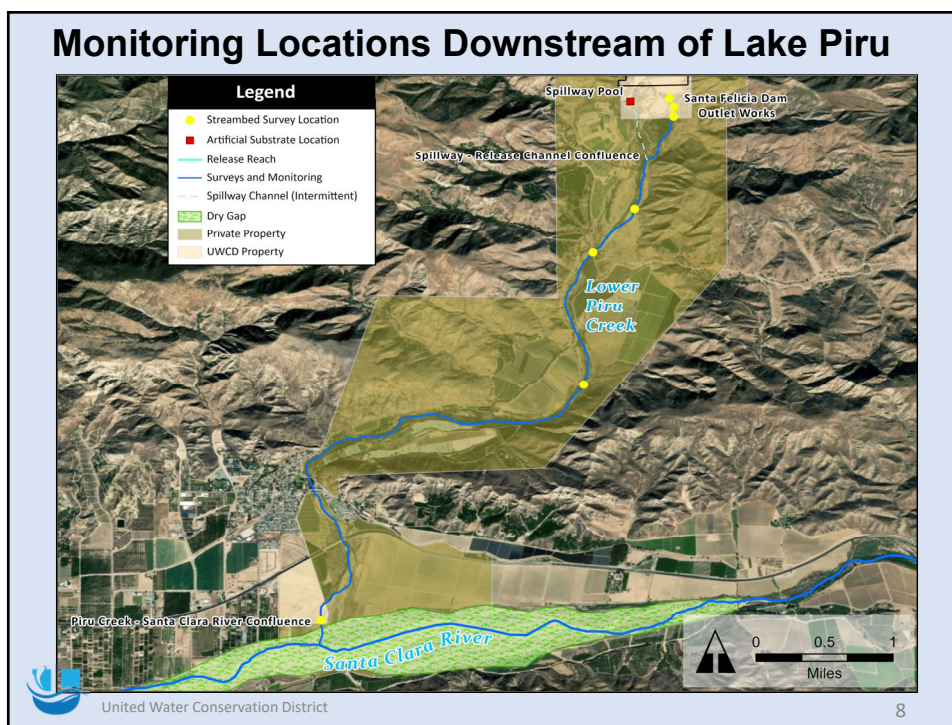
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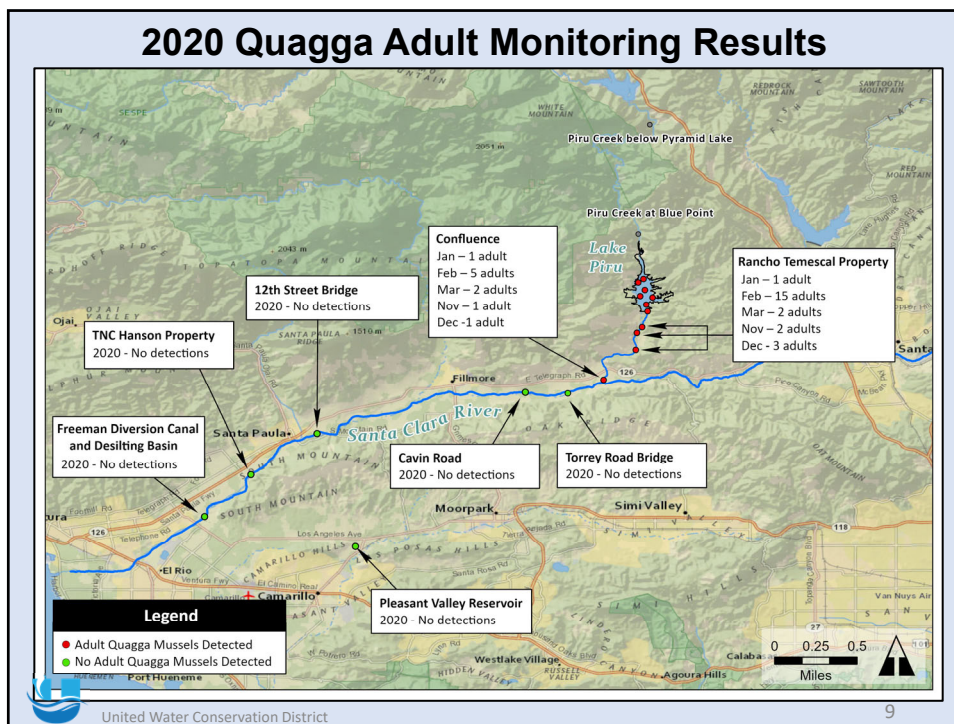
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Control Techniques for Consideration

- Chemical Control – Potential Molluscicide Pilot Study
- Physical Control – Lake Level Management Strategy

United Water Conservation District

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October 2020 Veliger Detection at Moss Screen Facility

UWCD Response:

- Installed a chlorine injection system at the moss screen facility to protect lower system infrastructure
- Additional monitoring and surveys initiated at seven locations in the lower system
- Lower system monitoring conducted six months following detection



United Water Conservation District



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Thank you!

Questions



United Water Conservation District

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