



## **SPECIAL NOTICE REGARDING CORONAVIRUS DISEASE 2019 (COVID-19) AND PARTICIPATION IN PUBLIC MEETINGS**

On March 4, 2020, Governor Newsom declared a State of Emergency resulting from the threat of COVID-19. On September 16, 2021, Governor Newsom signed Assembly Bill No. 361 into law. Assembly Bill No. 361 amends Government Code section 54953(e) by adding provisions for remote teleconferencing participation in meetings by members of a legislative body, without the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions. The San Bernardino Valley Municipal Water District adopted a resolution determining, by majority vote, that, as a result of the declared State of Emergency, a meeting in person would present imminent risks to the health or safety of attendees. Accordingly, it has been determined that all Board and Workshop meetings of the San Bernardino Valley Municipal Water District will be held pursuant to the Brown Act and will be conducted via teleconference. There will be no public access to the meeting venue.

### **BOARD OF DIRECTORS WORKSHOP - RESOURCES** **THURSDAY, SEPTEMBER 1, 2022 – 2:00 P.M.**

#### **PUBLIC PARTICIPATION**

Public participation is welcome and encouraged. You may participate in the September 1, 2022, meeting of the San Bernardino Valley Municipal Water District online and by telephone as follows:

**Dial-in Info: (877) 853 5247 US Toll-free**

**Meeting ID: 979 215 700**

**PASSCODE: 3802020**

**<https://sbvmwd.zoom.us/j/979215700>**

If you are unable to participate online or by telephone, you may also submit your comments and questions in writing for the District's consideration by sending them to [comments@sbvmwd.com](mailto:comments@sbvmwd.com) with the subject line "Public Comment Item #" (insert the agenda item number relevant to your comment) or "Public Comment Non-Agenda Item". Submit your written comments by 6:00 p.m. on Wednesday, August 31, 2022. All public comments will be provided to the Chair and may be read into the record or compiled as part of the record.

**IMPORTANT PRIVACY NOTE: Participation in the meeting via the Zoom app is strongly encouraged. Online participants MUST log in with a Zoom account. The Zoom app is a free download. Please keep in mind: (1) This is a public meeting; as such, the virtual meeting information is published on the World Wide Web and available to everyone. (2) Should you participate remotely via telephone, your telephone number will be your "identifier" during the meeting and available to all meeting participants; there is no way to protect your privacy if you elect to call in to the meeting.**



**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT**  
380 E. Vanderbilt Way, San Bernardino, CA 92408

**BOARD OF DIRECTORS WORKSHOP - RESOURCES**

**AGENDA**

**2:00 PM Thursday, September 1, 2022**

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**CALL TO ORDER**

Chairperson: Director Hayes

Vice-Chair: Director Harrison

**1) INTRODUCTIONS**

**2) PUBLIC COMMENT**

Members of the public may address the Board regarding any item within the subject matter jurisdiction of the Board; however, no action may be taken on off-agenda items except as authorized by law. Each speaker is limited to a maximum of three (3) minutes.

**3) SUMMARY OF PREVIOUS MEETING**

3.1 Board of Directors Workshop - Resources - August 4, 2022(Page 3)  
[Summary Notes BOD Workshop - Resources 080422](#)

**4) DISCUSSION ITEMS**

4.1 Consideration of the United States Geological Survey (USGS) Data Collection Program for Fiscal Year 2022-2023 (Page 9)  
[Staff Memo - Consideration of the United States Geological Survey \(USGS\) Data Collection Program for Fiscal Year 2022 - 2023](#)  
[USGS Joint Funding Agreement 23ZGJFA22000034](#)

4.2 Consider Contract Amendment with Dudek to Develop Well Ordinance for the Yucaipa Sustainable Groundwater Management Agency(Page 17)  
[Staff Memo - Consider Contract Amendment with Dudek to Develop Well Ordinance for the Yucaipa Sustainable Groundwater Management Agency](#)  
[Dudeks Proposal to Develop Well Ordinance for Yucaipa GSP Plan Area](#)

- 4.3 Discuss and Provide Direction to Staff establishing Board Meeting and Workshop Agenda Protocol (Page 26)  
[Staff Memo - Discuss and Provide Direction to Staff establishing Board Meeting and Workshop Agenda Protocol](#)

**5) CLOSED SESSION**

- 5.1 Conference with Real Property Negotiators  
Property: Southern California Edison East End Hydroelectric Generation Plants  
Agency negotiator: Heather Dyer, Wen Huang  
Negotiating parties: Southern California Edison Company  
Under negotiation: Price and terms of payment

**6) FUTURE BUSINESS**

**7) ADJOURNMENT**

PLEASE NOTE:

Materials related to an item on this Agenda submitted to the Board after distribution of the agenda packet are available for public inspection in the District's office located at 380 E. Vanderbilt Way, San Bernardino, during normal business hours. Also, such documents are available on the District's website at [www.sbvmd.com](http://www.sbvmd.com) subject to staff's ability to post the documents before the meeting. The District recognizes its obligation to provide equal access to those individuals with disabilities. Please contact Melissa Zoba at (909) 387-9228 two working days prior to the meeting with any special requests for reasonable accommodation.



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**DATE:** September 1, 2022  
**TO:** Board of Directors Workshop – Resources  
**FROM:** Staff  
**SUBJECT:** Summary of August 4, 2022, Board of Directors Workshop – Resources

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The Resources Workshop convened on August 4, 2022. Director Hayes chaired the meeting via video conference.

Directors Present: President Kielhold, Vice President Hayes, Director Botello, Director Harrison and Director Longville.

**Staff Present:**

Cindy Saks, CPA – Deputy General Manager / Chief Financial Officer  
Bob Tincher, PE, MS – Deputy General Manager / Chief Water Resources Officer

Kristeen Farlow, MPA -- Strategic Communications Manager  
Anthony Flordelis – Business Systems Analyst  
Matthew E. Howard, MS – Water Resources Senior Planner  
Adekunle Ojo, MPA – Manager of Water Resources  
Shavonne Turner, MPA – Water Conservation Program Manager

Olivia Ramirez, SBVMWD Intern

**Members of the Public Present:**

Chris Mann, Yucaipa Valley Water District  
Lonni Granlund, Yucaipa Valley Water District  
Joyce McIntire, Yucaipa Valley Water District  
Melody McDonald, San Bernardino Valley Water Conservation District  
Leland Lubinsky  
Larry Smith

**1. Introductions**

There were none.

## **2. Public Comment**

Chair Hayes invited public comment. There was none.

### **3.1 Summary of Previous Meeting**

The meeting notes from the July 7, 2022 Board of Directors Workshop - Resources were accepted with no corrections.

#### **4.1 Consider the Findings of the Regional Annual Water Supply and Demand Assessment.**

Deputy General Manager / Chief Water Resources Officer Bob Tincher stated both items are related to the drought and the Governor's Executive Order, which requires preparation of a Regional Annual Water Supply and Demand Assessment. The goal is for each agency to compare how their annual supplies compare with demand, he noted.

Water Resources Manager Adekunle Ojo presented the report. This assessment is a new requirement, he explained. The preliminary and final reports were submitted to the California Department of Water Resources (DWR) by the deadline, and retailers did the same.

The Assessment shows that demand will be 21 percent lower than supplies, Mr. Ojo continued. The presentation will demonstrate compliance with State law and regulations and give peace of mind regarding water supply conditions, he said. He noted the related legislation and explained the new way of standardizing Water Shortage Contingency Plans (WSCP) throughout the State. If conditions change, the assessment can be updated, he advised.

Mr. Ojo reviewed the process of assessment covering the period of July 2022 to the end of the fiscal year. The assessment was shared with the Basin Technical Advisory Committee (BTAC), which recommended no shortage level to be activated at the regional level. Mr. Ojo pointed to the availability of groundwater supply, estimated safe yields, and assumption of a five percent State Water Project allocation next year. No diminishment of capacity for this assessment period is anticipated, he noted. Some retailers do have constraints addressed in their own assessments as well as WSCPs, he added.

Mr. Ojo showed findings that demand has been shrinking over the last couple of years, and much of the region's water supply comes from the San Bernadino Basin. He reiterated that demand is at about 79 percent of the available supplies.

Mr. Ojo detailed extractions from the basin which show demand consistently below the limit since 2012, and gains in water conservation achieving a 19 percent reduction in demand.

Mr. Ojo summarized the unconstrained demand totaling 173,000 acre-feet, with anticipated supply of 208,000 acre-feet. Factoring in the 5,000 acre-feet approved for incentivizing retail agencies to conserve, brings the potential balance to 24 percent below supplies, he stated. The Assessment includes demand response actions which will be implemented although there is no water shortage, he explained. These include an expanded public information campaign, stored water supply, and buyback of demand, along with spillover effect from actions of other agencies. He contrasted the situation of the Inland Empire Utilities Agency with a 35 percent shortage and declared drought emergency.

Mr. Ojo assured there is adequate water supply for the Valley District service area even in continued dry conditions through 2023. The Integrated Regional Urban Water Management Plan Reliability Factor is 15 percent, he noted, which enables the District to deal with uncertainties, he stated. Data shows that people in this area have embraced conservation as a way of life, he added, but there is room for improvement. He reminded the Board that Valley District was created to help the region withstand prolonged critically dry, drought conditions, and this Assessment shows that the agency is delivering on that mission.

Director Longville noted the resolution related to this item was passed in June 2021. Mr. Ojo explained that the State changed the way the Urban Water Management Plan (UWMP) was conducted on a five-year cycle, and the Water Supply and Demand Assessment is meant to be on a one-year cycle. The law requires adoption of the UWMP separately from the WSCP, and last year, the WSCP was adopted and dictated how the Assessment would be done.

Vice President Hayes noted that the Assessment is based on the basin safe yield, not the amount of water underground. Mr. Ojo confirmed and stated that it shows the area is living within its limit.

Director Harrison asked if aquifer storage was currently 8 million acre-feet. Mr. Tincher confirmed that was a fair estimate.

The Board received and filed the Annual Water Supply and Demand Assessment.

## **4.2 Staff Update on Regional Drought Response and Compliance with Water Conservation Emergency Regulations**

Deputy General Manager / Chief Water Resources Officer Bob Tincher advised the State had responded to the request to avoid a one-size-fits-all approach, but there is a lot of confusion in terms of the Executive Order, he noted.

Water Conservation Program Manager Shavonne Turner updated the Board on drought response and compliance with water conservation emergency regulations. The Governor's Drought State of emergency was declared on October 19, 2021, and the first emergency regulation was adopted on January 4, 2022. There was a second regulation adopted May 24 with an effective date of June 10.

Actions that fell under Water Shortage Level 2 include drought surcharges, water audits (free home checkups), increased direct drought messaging, notification to customers with wasteful use, and submission of the Annual Water Supply and Demand Assessment.

The State asked that non-functional turf should not be irrigated with potable water, Ms. Turner continued. She shared examples of non-functional turf and noted that there will be outreach and education on water management.

Ms. Turner noted Valley District has always planned ahead, seeking opportunities for collaboration, and providing for capture and storage of water in wet years which has resulted in the region being prepared for times like this. She listed ongoing water efficiency, collaboration on outreach with retail agencies, shared resources, and exchange of information. Two workshops will be coming in the fall as another way to support the retailers and push collaboration and permanent change, she added. In addition, the Demand Management Incentive program was approved by the Board and will pay retailers for the water saved, she reminded.

Ms. Turner highlighted actions and water shortage levels by retail agencies. Director Harrison asked for a copy of the slide and an explanation of the water shortage levels.

In response to Vice President Hayes, Ms. Turner advised that the water shortage stages are defined by the State. Mr. Ojo noted that the agency can define content using the State's guidance.

Director Longville noted she received questions and this presentation was explanatory. She acknowledged the interface of non-functional turf with trees and pointed out there is a long-term educational issue with helping area residents understand the difference between water conservation and using nature-based solutions to deal with challenges.

Director Longville said she would be interested to see how many of the non-functional areas would begin to turn brown. So far, she is not seeing many, she noted.

In response to President Kielhold, Mr. Ojo noted that the 24 percent demand reduction was from available supplies. He noted the steady decline in use of available water.

President Kielhold asked about coordination with retail agencies and Ms. Turner said she has been meeting regularly with agencies to build partnerships and discuss options. Each agency is different, and work is based on their needs, she noted. President Kielhold asked if agencies had reached out or if contact was made by the District. Ms. Turner said it was both and noted improvement in relationship building and working together.

Director Harrison noted the potable and non-potable reference in the chart and wondered for those who didn't have access to these irrigation alternatives, were lawns just to go brown. The ask applies to non-residential, non-functional turf, Ms. Turner clarified.

Vice President Hayes asked about a general statement about irrigation timing. Ms. Turner explained it would depend on the type of soil, zone location, and plant material. She offered additional irrigation considerations. Mr. Tincher suggested adjusting timing to achieve a light green lawn. Mr. Ojo discussed the variables of grass type and irrigation heads.

Vice President Hayes pointed out that communication needs to be tailored to the average person who needs simple answers.

Director Botello acknowledged the unique concerns of retailers and said he would like to see a greater leadership role in convening the retailers quarterly or once a year to focus on lessons learned, innovative ideas, and disseminating the information. He shared some examples from East Valley Water District.

Director Botello pointed out that some retailer actions include rate increases and said he would like to have a conversation about the increases. Mr. Ojo posited that the City of San Bernardino has done a very good job of navigating this and the rate increase should not be seen as a negative. The change was introduction of drought surcharges for inefficient use, he noted. Director Botello stated that the message sent by the chart is that in Stage 3 there are rate increases due to the water shortage, and that is not the case. He said he did not want this to be seen as a reduction in demand leads to rate increases. The State is requiring a Stage 2 for all agencies, Mr. Tincher advised, and said he did not know why San Bernardino was at Stage 3.

Ms. Turner clarified she regularly meets with retailers and as a group, studies and experiences of projects and programs are shared, which can be easily implemented without re-creating



the wheel. Mr. Tincher also pointed to the BTAC forum. Director Botello said it sounds like there is no formal way for retailers to meet with staff and asked if there were future plans to bring people together for the lessons learned and conservation. Sometimes there is need to be in the same room, he noted.

Vice President Hayes asked how much conservation information is discussed at BTAC. Ms. Turner advised that in-person meetings will be restarted and clarified that some one-on-one meetings are in person, but some agencies are not yet allowing outside people to enter the agency. She described ways the agencies are working together including sharing ideas for grant applications. Director Botello encouraged further meetings.

The Board received and filed the Annual Water Supply and Demand Assessment.

#### **5. Future Business.**

None added.

#### **6. Adjournment.**

Chair Hayes adjourned the meeting at 3:01 p.m.

#### **Staff Recommendation**

Receive and file.



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**DATE:** September 1, 2022

**TO:** Board of Directors' Workshop - Resources

**FROM:** Matthew Howard, Senior Water Resources Planner

**SUBJECT:** Consideration of the United States Geological Survey (USGS) Data Collection Program for Fiscal Year 2022 – 2023

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**Staff Recommendation**

Staff is recommending that the Board place this item on a future regular Board of Directors meeting agenda for consideration.

**Summary**

For decades, Valley District and the other Santa Ana River Watermaster entities have partnered with the United States Geological Survey (USGS) to monitor streamflows in the upper portion of the Santa Ana River Watershed along with precipitation levels and groundwater levels in the Valley District service area.

Staff is recommending the attached Joint Funding Agreement with the USGS for the FY 2022-23 data collection and monitoring program that supports the Western-San Bernardino Watermaster, Santa Ana River Watermaster, the Habitat Conservation Plan, the Yucaipa Sustainable Groundwater Management Agency and the Basin Technical Advisory Committee at a total cost of \$1,164,460. The USGS is contributing a total of \$159,000 leaving a remainder of \$1,005,460 to be paid by Valley District and its partners. Valley District's net cost is \$769,377 which is within the approved FY22-23 General Fund Budget. The cost for the FY 22-23 program is 3.4% higher than last year's program. The form of the agreement is essentially the same as previous versions, which was reviewed by House Counsel and approved as to form.

This Agreement is specifically focused on the collection of data in support of the projects listed above and is separate from the Water Resource Investigations Agreement that was recently approved by the Board of Directors in August 2022. This Data Collection Agreement is managed by the USGS Redlands field office, where USGS staff monitor, maintain, and collect data in the Valley District service area. The recently approved Water Resource Investigations Agreement is managed by the USGS Water Science Center located in Sacramento, California and focuses on specific projects such as groundwater modeling, specific studies, and programs which are outside Redlands field office scope of services. Next month one more USGS Agreement will be brought for Board consideration for biological studies in support of the Santa Ana River HCP. These services will be completed by the USGS Western Ecological Research Center based out of San Diego, California.

### **District Strategic Plan Application**

This project is consistent with Valley District's Mission Statement to work collaboratively to provide a reliable and sustainable water supply to support the changing needs of our region's people and environment and with the following strategies:

- Proactively manage a diverse, adaptable water supply portfolio to maximize the value of the region's water assets
- Drive science-based decision making and proactive risk management
- Build trust by being a collaborative and resourceful partner through effective communication and engagement

### **Fiscal Impact:**

This item has been budgeted in the FY 2022-23 Valley District General Fund Budget Line Item 6350 - United States Geological Survey. After taking into consideration the USGS contribution and reimbursement from our partners, Valley District's net cost for this agreement will be \$769,377.

### **Attachment**

U.S. Department of the Interior U.S. Geological Survey Joint Funding Agreement for Water Resource Investigations, Agreement # 23ZGJFA22000034



## United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
 California Water Science Center  
 6000 J Street, Placer Hall  
 Sacramento, CA 95819

August 15, 2022

Mrs. Heather Dyer  
 Chief Executive Officer/General Manager  
 San Bernardino Valley Municipal Water District  
 380 East Vanderbilt Way  
 San Bernardino, CA 92408

Dear Mrs. Dyer:

Attached is the Joint Funding Agreement (JFA) 23ZGJFA22000034, signed by our agency, for your approval to enact the cost changes to the project(s) California Water Science Center Water Resources Investigations, during the period October 1, 2022 through September 30, 2023 in the amount of \$1,005,460 from your agency. U.S. Geological Survey contributions for this agreement are \$159,000 for a combined total of \$1,164,460. If you are in agreement with this proposed program, please return the fully executed signed copy to CAgageADMIN@usgs.gov (preferred) or send one fully executed paper copy to Cade Castro at the address in the letter head.

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **October 1, 2022**. If, for any reason, the agreement cannot be signed and returned by the date shown above, please contact Jonathan Newby by phone number (909) 798-3272 or email jnewby@usgs.gov to make alternative arrangements.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Cade Castro at phone number (970) 462-2034 or email at ccastro@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

ALISSA COES  
 Digitally signed by ALISSA  
 COES  
 Date: 2022.08.16 11:54:06  
 -04'00'

Alissa Coes  
 Acting Director, USGS California Water Science  
 Center

Enclosure  
 Detailed Summary

Form 9-1366  
(May 2018)

U.S. Department of the Interior  
U.S. Geological Survey  
Joint Funding Agreement  
FOR  
Water Resource Investigations

Customer #: 600000809  
Agreement #: 23ZGJFA22000034  
Project #: ZG00GZV  
TIN #: 95-6005196

Fixed Cost Agreement YES[ X ] NO[ ]

THIS AGREEMENT is entered into as of the October 1, 2022, by the U.S. GEOLOGICAL SURVEY, California Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the San Bernardino Valley Municipal Water District party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation Water Resource Investigations (per attachment), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$159,000 by the party of the first part during the period  
October 1, 2022 to September 30, 2023
- (b) \$1,005,460 by the party of the second part during the period  
October 1, 2022 to September 30, 2023
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0

Description of the USGS regional/national program:

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (<https://www.usgs.gov/about/organization/science-support/science-quality-and-integrity/fundamental-science-practices>).

Form 9-1366  
(May 2018)

U.S. Department of the Interior  
U.S. Geological Survey  
Joint Funding Agreement  
FOR  
Water Resource Investigations

Customer #: 600000809  
Agreement #: 23ZGJFA22000034  
Project #: ZG00GZV  
TIN #: 95-6005196

9. Billing for this agreement will be rendered quarterly. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

**USGS Technical Point of Contact**

Name: Jonathan Newby  
Supervisory Hydrologic Technician  
Address: 1653 Plum Lane  
Redlands, CA 92374  
Telephone: (909) 798-3272  
Fax: (909) 335-3407  
Email: jnewby@usgs.gov

**Customer Technical Point of Contact**

Name: Heather Dyer  
Chief Executive Officer/General Manager  
Address: 380 East Vanderbilt Way  
San Bernardino, CA 92408  
Telephone: (760) 397-7756  
Fax:  
Email: heatherd@sbvmwd.com

**USGS Billing Point of Contact**

Name: Cade Castro  
Budget Analyst  
Address: 6000 J Street Placer Hall  
Sacramento, CA 95819  
Telephone: (970) 462-2034  
Fax:  
Email: ccastro@usgs.gov

**Customer Billing Point of Contact**

Name: Cindy Saks  
Chief Financial Officer  
Address: 380 East Vanderbilt Way  
San Bernardino, CA 92408  
Telephone: (909) 387-9224  
Fax: (909) 387-9247  
Email: cindys@sbvmwd.com

U.S. Geological Survey  
United States  
Department of Interior

San Bernardino Valley Municipal Water District

Signature

ALISSA  
COES  
By ALISSA COES Date: \_\_\_\_\_  
Digitally signed by ALISSA COES  
Date: 2022.08.16 11:54:37 -04'00'  
Name: Alissa Coes  
Title: Acting Director, USGS California Water Science Center

Signatures

By \_\_\_\_\_ Date: \_\_\_\_\_  
Name:  
Title:  
  
By \_\_\_\_\_ Date: \_\_\_\_\_  
Name:  
Title:  
  
By \_\_\_\_\_ Date: \_\_\_\_\_  
Name:  
Title:

San Bernardino Valley Municipal Water District  
 Heather Dyer, Chief Executive Officer/General Manager  
 380 East Vandebilt Way  
 San Bernardino, CA 92408

USGS Cooperative Water Program  
 Oct 1, 2022 - Sept 30, 2023  
 232G1FA22000034

Data Section Total = \$1,664,460  
 USGS Cooperative Matching Funds = \$139,000  
 Cooperator Total = \$1,005,460

Table 1: Watermaster Data-Collection Program

Type	Station Number	Station Name	Activity	Activity Cost	USGS Funds	Cooperator Funds	Notes
SW	11051495	Santa Ana R/nr Mentone CA (RIVER ONLY)	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	Data quarterly to Watermaster
SW	11051502	Sr Supp Gage nr Mentone CA	Streamflow, Partial Range (CMF)	\$ 14,830	\$ 4,750	\$ 10,080	Data quarterly to Watermaster
SW	11055000	Mill C nr Mentone CA	Discharge measurement	\$ 12,480	\$ -	\$ 12,480	24 24 Measurements/Year
SW	11055500	Plunge C nr East Highlands CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11055700	City Creek Water Co Canal near Highland CA	Streamflow, Partial Range (CMF)	\$ 14,830	\$ 4,750	\$ 10,080	
SW	11058500	E Twin C nr Highland CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11058600	Waterman Canyon Creek nr Arrowhead Springs CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11059300	Santa Ana River at E Street near San Bernardino CA	Periodic seasonal suspended sediment	\$ 17,620	\$ -	\$ 17,620	
SED	11059300	Santa Ana River at E Street near San Bernardino CA	Periodic seasonal suspended sediment	\$ 17,620	\$ -	\$ 17,620	
SW	11064000	Warm C nr San Bernardino CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11064100	Fontana Water Co Infiltration Line near Fontana CA	Streamflow record, full - review	\$ 6,070	\$ 1,850	\$ 4,220	
SW	11062399	Fontana Water Co Surface Div. Weir 2 near Fontana CA	Streamflow, continuous - fixed Geometry	\$ 9,430	\$ -	\$ 9,430	Data quarterly to Watermaster
SW	11062400	Fontana Water Co Surface Div. near Fontana CA	Streamflow, continuous - fixed Geometry	\$ 9,430	\$ -	\$ 9,430	Data quarterly to Watermaster
SW	11062450	Fontana PH Forebay Spillway near Fontana CA	Streamflow, Partial Range	\$ 15,800	\$ -	\$ 15,800	Data quarterly to Watermaster
SW	11062700	Lytle Creek Diversion to Fontana Powerhouse AVIM near Fontana CA	Discharge, AVIM quality assurance check/review	\$ 1,470	\$ -	\$ 1,470	Data quarterly to Watermaster
SW	11062800	Fontana Water Company Spill Channel from Atterbay nr Fontana	Streamflow, Partial Range	\$ 15,800	\$ -	\$ 15,800	Data quarterly to Watermaster
SW	11063510	Chalon C bl Lone Pine C nr Kernbrook CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11063680	Devil Cyn C nr San Bernardino CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11065000	Lytle Ca Colton CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11066320	Rk Outflow a Santa Ana R nr Grand Terrace CA	Water Level/Reservoir, continuous	\$ 9,200	\$ -	\$ 9,200	
SW	11066460	Santa Ana R A MWD Crossing CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	Data quarterly to Watermaster
SW	11066460	Santa Ana R A MWD Crossing CA	Discharge measurement (CMF)	\$ 12,480	\$ 2,590	\$ 9,890	24 24 Measurements/Year Data quarterly to Watermaster
QW	11066460	Santa Ana R A MWD Crossing CA	Discharge measurement (CMF)	\$ 15,840	\$ 4,410	\$ 11,430	24 24 Samples/year @ 660 each, includes processing- Same costs applied to COWD
SW	11071900	Temescal Creek at Corona Lake nr Corona CA	TDS Sample - biweekly	\$ 15,800	\$ -	\$ 15,800	
SW	11071900	Temescal Creek at Corona Lake nr Corona CA	Streamflow, Partial Range	\$ 15,800	\$ -	\$ 15,800	
SW	11073360	Chino Creek above Wain St nr Chino CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11073360	Chino Creek at Shafer Avenue nr Chino CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	
SW	11073465	Cuamnosos Creek nr Mira Loma CA	Streamflow, continuous (CMF)	\$ 24,710	\$ 7,330	\$ 17,380	Data quarterly to Watermaster
SW	3405261165613001	Mill Creek Precipitation nr Forest Falls CA	Precipitation, continuous	\$ 9,610	\$ -	\$ 9,610	Data quarterly to Watermaster
SW	34074211751617001	Gilbert Street Precipitation Gage at San Bernardino CA	Precipitation, continuous	\$ 9,610	\$ -	\$ 9,610	
SW	3414251165931001	Big Bear Lake Precipitation near Big Bear CA	Precipitation, continuous	\$ 9,610	\$ -	\$ 9,610	
SW	3415091173126001	Middle Fork Lytle Creek Precipitation Gage near Lytle Creek	Precipitation, continuous	\$ 9,610	\$ -	\$ 9,610	
SW	3400141170509001	Weather Station at West County Line Road at Calimesa CA	Precipitation, continuous	\$ 9,610	\$ -	\$ 9,610	Precipitation is published all other weather parameters are provisional
<b>Summary of Monitoring Conducted for Other Agencies</b>							
SW	11057500	San Timotee Creek near Loma Linda	Streamflow, continuous	USGS Federal Priority Streamgage			
SW	11062000	Lytle Creek near Fontana	Streamflow, continuous	USGS Federal Priority Streamgage			
SW	11074000	Santa Ana River below Prado Dam	Discharge measurement - 2 per month	Orange County Water Distr Data furnished monthly to Watermaster			
SW	11074000	Santa Ana River below Prado Dam	Specific Conductance and temp, continuous	Orange County Water Distr Data furnished monthly to Watermaster			
SW	11074000	Santa Ana River below Prado Dam	TDS (bi weekly)	Orange County Water Distr Data furnished monthly to Watermaster			
SW	11074000	Santa Ana River below Prado Dam	Streamflow, continuous	Orange County Water Distr Data furnished monthly to Watermaster			
SW	11075000	Sanisigo Creek near Santa Ana CA	Streamflow, continuous	USGS Federal Priority Stream Data furnished quarterly to Watermaster			
SW	11078000	Santa Ana River at Santa Ana CA	Streamflow, continuous	USGS Federal Priority Stream Data furnished quarterly to Watermaster			

Table 2: Groundwater Level Monitoring Program

Type	Station Number	Station Name	Activity	Activity Cost	USGS Funds	Cooperator Funds	Notes
GW	3400451170208001	0025002W12H001S	Groundwater level, continuous	\$ 9,200	\$ 280	\$ 8,920	Yuccipa Enc. 5 Equestrian Park
GW	3400451170208002	0025002W12H002S	Groundwater level, continuous (ea addit well in cluster)	\$ 2,770	\$ 280	\$ 2,490	Yuccipa Enc. 5 Equestrian Park
GW	3400451170208003	0025002W12H003S	Groundwater level, continuous (ea addit well in cluster)	\$ 2,770	\$ 280	\$ 2,490	Yuccipa Enc. 5 Equestrian Park
GW	3400451170208004	0025002W12H004S	Groundwater level, continuous (ea addit well in cluster)	\$ 2,770	\$ 280	\$ 2,490	Yuccipa Enc. 5 Equestrian Park
GW	3401301170549001	0025002W04L002S	Groundwater level, continuous	\$ 9,200	\$ 280	\$ 8,920	Yuccipa Enc. 5 Dunlap Acres
GW	3401301170549002	0025002W04L003S	Groundwater level measurement, bimonthly	\$ 1,660	\$ 280	\$ 1,380	Yuccipa Enc. 5 Dunlap Acres
GW	3401301170549003	0025002W04L004S	Groundwater level, continuous (ea addit well in cluster)	\$ 2,770	\$ 280	\$ 2,490	Yuccipa Enc. 5 Dunlap Acres
GW	3401301170549004	0025002W04L005S	Groundwater level, continuous (ea addit well in cluster)	\$ 2,770	\$ 280	\$ 2,490	Yuccipa Enc. 5 Dunlap Acres
GW	3401301170549005	0025002W04L006S	Groundwater level, continuous (ea addit well in cluster)	\$ 2,770	\$ 280	\$ 2,490	Yuccipa Enc. 5 Dunlap Acres
GW	3401361170339001	0025002W02F002S	Groundwater level, continuous	\$ 9,200	\$ 280	\$ 8,920	Yuccipa Enc. 5 6th and F

Table 2 Total = \$624,100  
 USGS Cooperative Matching Funds = \$45,360  
 Cooperator Total = \$578,740



GW	34013611703992	0025002W02D0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Yucalpa Enc. 5 6th and F
GW	34013611703993	0025002W02D0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Yucalpa Enc. 5 6th and F
GW	34013611703994	0025002W02D0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Yucalpa Enc. 5 6th and F
GW	34024811702091	0015002W36A0025	Groundwater level, continuous (ea addit well in cluster)	\$	9,200	\$	280	\$	8,920	Yucalpa Enc. 5 Wilson Creek
GW	34024811702092	0015002W36A0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Yucalpa Enc. 5 Wilson Creek
GW	34024811702093	0015002W36A0045	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Yucalpa Enc. 5 Wilson Creek
GW	34031611714101	0015004W27N0015	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Yucalpa Enc. 5 Wilson Creek
GW	34031611714102	0015004W27N0035	Groundwater level, continuous (ea addit well in cluster)	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 3 Rich Dauer Park
GW	34031711759403	0015004W29K0035	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	34031711759404	0015004W29K0045	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	34031711759405	0015004W29K0055	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	340321117153801	0015004W25E0055	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	340321117153802	0015004W25E0075	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	340326117185301	0015004W29H0045	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	340326117185302	0015004W29H0055	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	340326117185303	0015004W29H0065	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	340326117185304	0015004W29H0075	Groundwater level measurement, monthly	\$	3,320	\$	280	\$	3,040	Rialto/Colton Enc. 4 Fogg2
GW	340408117165301	0015004W22D0015	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 2 Commerce Center West
GW	340408117165302	0015004W22D0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Commerce Center West
GW	340408117165303	0015004W22D0055	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Commerce Center West
GW	34041117192001	0015004W20H0015	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 2 Commerce Center West
GW	34041117192002	0015004W20H0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Commerce Center West
GW	34041117192003	0015004W20H0055	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Commerce Center West
GW	34041411790201	0015004W20H0025	Groundwater level, continuous (ea addit well in cluster)	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 2 Colton Plunge Park
GW	34041411790202	0015004W20H0045	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Colton Plunge Park
GW	34041411790203	0015004W20H0065	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Colton Plunge Park
GW	34043311712101	0015004W22B0095	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 2 Colton Plunge Park
GW	34043311712102	0015004W22B0115	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Treatment Plant
GW	34043311712103	0015004W22B0135	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Treatment Plant
GW	340439117173901	0015004W22D0025	Groundwater level, continuous (ea addit well in cluster)	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 2 SBVWD (MUNI Yard)
GW	340439117173902	0015004W22D0045	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 2 SBVWD (MUNI Yard)
GW	340439117173903	0015004W22D0065	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 2 SBVWD (MUNI Yard)
GW	340439117173904	0015004W22D0085	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 2 SBVWD (MUNI Yard)
GW	34050311704101	0015003W15K0015	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 2 Riverview
GW	34050311704102	0015003W15K0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Riverview
GW	34050311704103	0015003W15K0055	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Riverview
GW	340508117163301	0015004W14E0085	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 3 Mill Center
GW	340508117163302	0015004W14E0095	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 3 Mill Center
GW	340508117163303	0015004W14E0115	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 3 Mill Center
GW	340508117163305	0015004W14E0125	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Mill Center
GW	340509117172401	0015004W15E0065	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 3 Orange Show
GW	340509117172402	0015004W15E0075	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Orange Show
GW	340521117121001	0015005W13B0015	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Rialto/Colton Enc. 4 Rialto High School
GW	340521117121002	0015005W13B0025	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Rialto/Colton Enc. 4 Rialto High School
GW	340521117121003	0015005W13B0045	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Rialto/Colton Enc. 4 Rialto High School
GW	340521117121004	0015005W13B0055	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Rialto/Colton Enc. 4 Rialto High School
GW	340524117182801	0015004W16C0065	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 San Bernardino Valley College
GW	340524117182803	0015004W16C0075	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 San Bernardino Valley College
GW	340538117171401	0015004W10K0115	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 3 Burbank Elementary
GW	340538117171402	0015004W10K025	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Burbank Elementary
GW	340541117074001	0015002W07Q0015	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 2 Cone Camp
GW	340541117074002	0015002W07Q0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Cone Camp
GW	340541117074003	0015002W07Q0055	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Cone Camp
GW	340541117074004	0015002W07Q0065	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 2 Cone Camp
GW	340541117074005	0015002W07Q0085	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 2 Cone Camp
GW	340546117182901	0015004W09L0035	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Urtle Creek Park
GW	340546117182902	0015004W09L0045	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Urtle Creek Park
GW	340555117161201	0015004W11K0025	Groundwater level, continuous	\$	9,200	\$	280	\$	8,920	Bunker Hill Enc. 3 Lena Road
GW	340555117161202	0015004W11K0035	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 3 Lena Road
GW	340555117161203	0015004W11K0045	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Lena Road
GW	340555117161204	0015004W11K0055	Groundwater level measurement, bimonthly	\$	1,660	\$	280	\$	1,380	Bunker Hill Enc. 3 Lena Road
GW	340555117161205	0015004W11K0065	Groundwater level, continuous (ea addit well in cluster)	\$	2,770	\$	280	\$	2,490	Bunker Hill Enc. 3 Lena Road







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**DATE:** September 1, 2022

**TO:** Board of Directors' Workshop - Resources

**FROM:** Matthew Howard, Senior Water Resources Planner

**SUBJECT:** Consider Contract Amendment with Dudek to Develop Well Ordinance for the Yucaipa Sustainable Groundwater Management Agency

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**Staff Recommendation**

The Yucaipa Sustainable Groundwater Management Agency (Yucaipa SGMA) is requesting an amendment to Dudek's existing contract to develop a well ordinance for the Yucaipa Basin at an additional cost of \$14,890. Valley District's share of this contact amendment is \$930.63.

**Summary**

The Yucaipa SGMA has approved the development of a well ordinance in response to Governor Newsom's Executive Order N-7-22 of March 28, 2022, which requires written approval from the local Groundwater Sustainability Agency prior to issuing any new well permits.

**Background**

The Yucaipa SGMA consisting of the Yucaipa Valley Water District, Western Heights Water Company, South Mesa Water Company, South Mountain Water Company, City of Yucaipa, City of Redlands, San Gorgonio Pass Water Agency, and Valley District is legally responsible for the long-term sustainability of the groundwater resources in the Yucaipa Basin.

Yucaipa SGMA is now required, under Executive Order N-7-22, to approve new wells or well alterations submitted to the San Bernardino County Environmental Health Services and/or the Riverside County Department of Environmental Health. The overarching purpose of the well ordinance is to regulate the flow measurement, installation, abandonment, alteration, or destruction of wells in order to sustainably manage the groundwater resources in the Yucaipa Basin consistent with the adopted Groundwater Sustainability Plan.

This proposal was approved by the Yucaipa SGMA at the Yucaipa SGMA Board Meeting on July 27, 2022. The Yucaipa SGMA proportions 75% of the costs to the retail water agencies and 25% shared equally amongst the two regional water agencies and two cities.

### **District Strategic Plan Application**

The development of the well ordinance is consistent with Valley District's Mission Statement to work collaboratively to provide a reliable and sustainable water supply to support the changing needs of our region's people and environment and with the following strategies:

- Proactively manage a diverse, adaptable water supply portfolio to maximize the value of the region's water assets
- Build trust by being a collaborative and resourceful partner through effective communication and engagement

### **Fiscal Impact:**

As the contracting agency, Valley District would amend the existing contract with Dudek for the entire, additional amount of \$14,890. However, the net fiscal impact to Valley District is \$930.63 after reimbursements from the other partners; funds are available under 6360 Consultants in the FY 2022-23 General Fund Budget to cover this cost.

### **Attachment**

Dudek Proposal to Develop Well Ordinance for the Yucaipa GSP Plan Area

June 20, 2022

Yucaipa Groundwater Sustainability Agency  
c/o Western Heights Water Company  
Attn: Mark Iverson, President  
32352 Avenue D  
Yucaipa, California 92399-1801

Subject: Proposal to Develop Well Ordinance for the Yucaipa GSP Plan Area

Dear Yucaipa GSA Member Agencies:

One of the discussion topics at the Yucaipa GSA Board meeting on April 27, 2022 was the Drought Executive Order N-7-22 issued by the Governor of California on March 28, 2022. Paragraph 9 of the Drought Executive Order states that a public agency responsible for issuing well permits must obtain “written verification” from a Groundwater Sustainability Agency (GSA) that “groundwater extraction by the proposed well would not be inconsistent with any sustainable groundwater management program established in any applicable Groundwater Sustainability Plan adopted by the GSA and would not decrease the likelihood of achieving a sustainability goal for the basin covered by such a plan.” To help verify whether a proposed new well or alteration to an existing well would be consistent with the Yucaipa GSP, the Yucaipa GSA discussed adopting a well ordinance that would require specific design requirements (e.g., totalizing flow meter, accessible sounding port or mechanism to measured depths-to-water) to monitor and evaluate the operation of a well in the Yucaipa Subbasin (Plan Area). The overarching purpose of the well ordinance will be to regulate the installation, abandonment, alteration, or destruction of wells to protect and sustainably manage the groundwater resource in the Plan Area.

Dudek is pleased to present this scope of work and fee to the Yucaipa GSA to develop an ordinance for the construction, reconstruction, abandonment, and destruction of groundwater wells in the Plan Area defined in the Yucaipa Groundwater Sustainability Plan (GSP) (Dudek 2022). The development of a well ordinance is within the authority of the GSA per the 2014 Sustainable Groundwater Management Act (SGMA). SGMA provides authority to the Yucaipa GSA per Water Code Section 10725.2(b), *Authority of Groundwater Sustainability Agency*, to “adopt rules, regulations, ordinances, and resolutions” and through Section 10725.8, *Measurement Devices and Reporting*, to require “that the use of every groundwater extraction facility within the management area of the groundwater sustainability agency be measured by a water-measuring device satisfactory to the groundwater sustainability agency.”

The Plan Area well ordinance will provide general standards and requirements for existing and proposed new wells to ensure that accurate and representative information is collected to evaluate conditions in the Subbasin (Dudek 2022). This information includes measurements of depths-to-water, accurate measurements and recordings of the volumes of groundwater extracted on a monthly basis, and that each well is accessible to collect water quality samples that are representative of conditions in the Subbasin. The collection of this information will assist the GSA in verifying that the well is consistent with

the sustainability goal of the GSP and is constructed and operated accordingly to maintain sustainability of the groundwater resource.

The public agencies responsible for issuing well permits in the Plan Area include the San Bernardino County Environmental Health Services (EHS) and the Riverside County Department of Environmental Health (DEH). These two agencies have contacted the Yucaipa GSA about forwarding well permit applications for review. With respect to the Drought Executive Order N-7-22 Paragraph 9 Section A, the Plan Area well ordinance will require additional information from the well owner than what is required in the well permit applications for either Riverside County DEH or San Bernardino County EHS. The additional information requested by the well ordinance may include, at a minimum, the following:

- Estimated monthly and/or annual peak production rate for a proposed extraction well.
- Details on the installation of a sounding tube to measure depths-to-water for a proposed extraction well; or other methodology to measure depths-to-water in the well.
- Results of a survey by a licensed surveyor that include coordinates of the well plus elevations of land surface and a reference point from which depths-to-water are measured at the well. Well coordinates should be referenced to the North American Datum of 1983 (NAD83), and elevations referenced to the North American Vertical Datum of 1988 (NAVD88) in units of feet.
- Details for the installation of an access port to collect representative water quality samples; or a different methodology to collect representative groundwater quality samples.
- Details for the installation of a calibrated totalizing flow meter for a proposed extraction well.
- A copy of the well completion report filed with DWR and the County that issued the well permit.

The following scope of work and fee details the work Dudek will undertake to develop a well ordinance.

## 1 Scope of Work

### Task 1 Prepared Draft Well Ordinance

Dudek will use the County of Riverside's Ordinance 682.4, which regulates the construction, reconstruction, abandonment, and destruction of wells, and San Bernardino County's Ordinance 3872, which regulates groundwater management in the unincorporated, unadjudicated desert region of the county, as guides to develop a specific well ordinance for the Plan Area. The Plan Area well ordinance will adopt the County of Riverside's Ordinance 682.4 standards, as it does apply to the portion of the Plan Area within the County of Riverside, as well as establish new regulations to assist the GSA in evaluating groundwater conditions in the Yucaipa Subbasin. San Bernardino County's ordinance 3872 does not apply to the portion of the Plan Area within the County of San Bernardino, but will be used as a guide to be consistent with San Bernardino County's approach to managing groundwater resources. The following is a brief description of the anticipated schedule for developing the Yucaipa GSA well ordinance:

- A draft outline of the Yucaipa GSA well ordinance will be provided to the Yucaipa GSA to review and provide comments. The draft outline will present the major components for the ordinance

with brief descriptions identifying their intents and purposes. Dudek anticipates providing the draft outline to the GSA four to six weeks after receiving authorization to proceed with this task.

- Dudek anticipates providing the GSA three weeks to review and provide comments on the draft outline.
- Dudek will prepare a letter with responses to comments by the GSA on the draft ordinance. The letter will be submitted to the GSA. If the GSA finds the responses satisfactory and requires no further revisions to the draft ordinance, then Dudek will prepare a final version for consideration at the following Yucaipa GSA Board meeting.

*Fee for Task 1* ..... \$14,890

### Deliverables

- Draft well ordinance for Yucaipa GSP Plan Area
- Response-to-Comments Letter to Yucaipa GSA
- Final version of well ordinance for consideration by Yucaipa GSA

## Schedule

The following schedule outlines the anticipated timeframe for developing the well ordinance:

- **July 27, 2022** – GSA Board Meeting – Authorization for Dudek to Proceed with the Well Ordinance
- **September 5, 2022** – Draft Well Ordinance to Yucaipa GSA to Review
- **September 26, 2022** – Comments from GSA Member Agencies
- **October 3, 2022** – Response to Comments Letter to GSA
- **October 10-14, 2022** – Finalize Well Ordinance
- **October 26, 2022** – GSA Board Meeting – Consideration of Adopting Well Ordinance

## Fee Summary

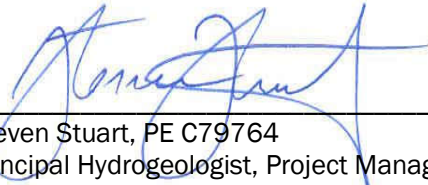
The fee presented in this proposal will be charged on a time and materials basis in accordance with Dudek’s 2022 Standard Schedule of Charges. The time and materials fee provided in this proposal represents an estimate of the anticipated level of effort required to complete the tasks described in the proposal. Should the actual effort required to complete the tasks be less than anticipated, the amount billed will be less than the total fee. Conversely, should the actual effort to complete the proposed tasks be greater than anticipated, additional fee authorizations will be requested. No work in excess of the proposed fee or outside of the proposed scope of work will be performed without written authorization from the Yucaipa GSA.

**TOTAL FEE.....\$14,890**

Dudek appreciates the opportunity to present this proposal to develop a well ordinance for the Yucaipa GSP Plan Area. We look forward to continuing our working relationship with the Yucaipa GSA.

If you have any questions regarding this proposal, please call me at 760-415-9079 or email me at [sstuart@dudek.com](mailto:sstuart@dudek.com).

Sincerely,



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Steven Stuart, PE C79764  
Principal Hydrogeologist, Project Manager

Att.: *Table 1. Fee for Developing a Well Ordinance for the Yucaipa GSP Plan Area*  
*Dudek 2022 Standard Schedule of Charges*  
cc: *Matt Howard, San Bernardino Valley Municipal Water District*

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# Attachment A

## Table 1. Fee for Developing a Well Ordinance for the Yucaipa GSP Plan Area

### Dudek 2022 Standard Schedule of Charges



**TABLE I. FEE FOR DEVELOPING A WELL ORDINANCE FOR THE YUCAIPA GSP PLAN AREA  
DUDEK FEE SCHEDULE**

<i>Team Member:</i>		Steven Stuart, PE	Hugh McManus, PG	<b>TOTAL HOURS</b>	<b>LABOR COST</b>	<b>TOTAL</b>
<i>Project Team Role:</i>		Project Manager	Hydrogeologist			
<i>Labor Class:</i>		Principal Hydrogeologist I	Hydrogeologist V			
<i>Billable Rate :</i>		\$280	\$185			
<b>Task 1 - Develop Well Ordinance for Yucaipa GSP Plan Area</b>						
1-1	Draft Well Ordinance	20	16	36	\$ 8,560	\$ 8,560
1-2	Response-to-Comments by Yucaipa GSA	4	4	8	\$ 1,860	\$ 1,860
1-3	Finalize Well Ordinance	4	6	10	\$ 2,230	\$ 2,230
1-4	Project Management/Meetings	8		8	\$ 2,240	\$ 2,240
	<b>Subtotal Task 1</b>	<b>36</b>	<b>26</b>	<b>62</b>	<b>\$ 14,890</b>	<b>\$ 14,890</b>
	<b>Total Hours and Fee</b>	<b>36</b>	<b>26</b>	<b>62</b>	<b>\$ 14,890.00</b>	<b>\$ 14,890.00</b>

## DUDEK 2022 Standard Schedule of Charges

### Engineering Services

Project Director .....	\$310.00/hr
Principal Engineer III .....	\$285.00/hr
Principal Engineer II .....	\$275.00/hr
Principal Engineer I .....	\$265.00/hr
Program Manager .....	\$255.00/hr
Senior Project Manager .....	\$255.00/hr
Project Manager .....	\$245.00/hr
Senior Engineer III .....	\$240.00/hr
Senior Engineer II .....	\$230.00/hr
Senior Engineer I .....	\$220.00/hr
Project Engineer IV/Technician IV .....	\$210.00/hr
Project Engineer III/Technician III .....	\$200.00/hr
Project Engineer II/Technician II .....	\$185.00/hr
Project Engineer I/Technician I .....	\$165.00/hr
Senior Designer II .....	\$190.00/hr
Senior Designer I .....	\$185.00/hr
Designer .....	\$175.00/hr
Assistant Designer .....	\$170.00/hr
CADD Operator III .....	\$165.00/hr
CADD Operator II .....	\$155.00/hr
CADD Operator I .....	\$140.00/hr
CADD Drafter .....	\$125.00/hr
CADD Technician .....	\$115.00/hr
Project Coordinator .....	\$145.00/hr
Engineering Assistant .....	\$120.00/hr

### Environmental Services

Project Director .....	\$255.00/hr
Senior Specialist IV .....	\$235.00/hr
Senior Specialist III .....	\$225.00/hr
Senior Specialist II .....	\$210.00/hr
Senior Specialist I .....	\$195.00/hr
Specialist V .....	\$185.00/hr
Specialist IV .....	\$175.00/hr
Specialist III .....	\$165.00/hr
Specialist II .....	\$150.00/hr
Specialist I .....	\$140.00/hr
Analyst V .....	\$130.00/hr
Analyst IV .....	\$115.00/hr
Analyst III .....	\$105.00/hr
Analyst II .....	\$95.00/hr
Analyst I .....	\$85.00/hr
Technician III .....	\$75.00/hr
Technician II .....	\$65.00/hr
Technician I .....	\$55.00/hr

### Mapping and Surveying Services

Application Developer II .....	\$195.00/hr
Application Developer I .....	\$155.00/hr
GIS Analyst V .....	\$205.00/hr
GIS Analyst IV .....	\$165.00/hr
GIS Analyst III .....	\$145.00/hr
GIS Analyst II .....	\$130.00/hr
GIS Analyst I .....	\$115.00/hr
UAS Pilot .....	\$115.00/hr
Survey Lead .....	\$185.00/hr
Survey Manager .....	\$135.00/hr
Survey Crew Chief .....	\$115.00/hr
Survey Rod Person .....	\$95.00/hr
Survey Mapping Technician .....	\$95.00/hr

### Construction Management Services

Principal/Manager .....	\$195.00/hr
Senior Construction Manager .....	\$185.00/hr
Senior Project Manager .....	\$175.00/hr
Construction Manager .....	\$160.00/hr
Project Manager .....	\$150.00/hr
Resident Engineer .....	\$150.00/hr
Construction Engineer .....	\$150.00/hr
On-site Owner's Representative .....	\$140.00/hr
Prevailing Wage Inspector .....	\$139.00/hr
Construction Inspector .....	\$135.00/hr
Administrator/Labor Compliance .....	\$100.00/hr

### Hydrogeology/HazWaste Services

Project Director .....	\$305.00/hr
Principal Hydrogeologist/Engineer II .....	\$280.00/hr
Principal Hydrogeologist/Engineer I .....	\$260.00/hr
Senior Hydrogeologist V/Engineer V .....	\$240.00/hr
Senior Hydrogeologist IV/Engineer IV .....	\$230.00/hr
Senior Hydrogeologist III/Engineer III .....	\$220.00/hr
Senior Hydrogeologist II/Engineer II .....	\$210.00/hr
Senior Hydrogeologist I/Engineer I .....	\$200.00/hr
Project Hydrogeologist V/Engineer V .....	\$185.00/hr
Project Hydrogeologist IV/Engineer IV .....	\$175.00/hr
Project Hydrogeologist III/Engineer III .....	\$165.00/hr
Project Hydrogeologist II/Engineer II .....	\$155.00/hr
Project Hydrogeologist I/Engineer I .....	\$145.00/hr
Hydrogeologist/Engineering Assistant .....	\$120.00/hr

### District Management & Operations

District General Manager .....	\$210.00/hr
District Engineer .....	\$205.00/hr
Operations Manager .....	\$160.00/hr
District Secretary/Accountant .....	\$135.00/hr
Collections System Manager .....	\$135.00/hr
Grade V Operator .....	\$125.00/hr
Grade IV Operator .....	\$110.00/hr
Grade III Operator .....	\$100.00/hr
Grade II Operator .....	\$80.00/hr
Grade I Operator .....	\$75.00/hr
Operator in Training .....	\$75.00/hr
Collection Maintenance Worker .....	\$75.00/hr

### Creative Services

Creative Services IV .....	\$165.00/hr
Creative Services III .....	\$150.00/hr
Creative Services II .....	\$135.00/hr
Creative Services I .....	\$120.00/hr

### Publications Services

Technical Editor IV .....	\$165.00/hr
Technical Editor III .....	\$150.00/hr
Technical Editor II .....	\$135.00/hr
Technical Editor I .....	\$120.00/hr
Publications Specialist IV .....	\$120.00/hr
Publications Specialist III .....	\$110.00/hr
Publications Specialist II .....	\$100.00/hr
Publications Specialist I .....	\$90.00/hr
Clerical Administration .....	\$90.00/hr

**Forensic Engineering** – Court appearances, depositions, and interrogatories as expert witness will be billed at 2.00 times normal rates.

**Emergency and Holidays** – Minimum charge of two hours will be billed at 1.75 times the normal rate.

**Material and Outside Services** – Subcontractors, rental of special equipment, special reproductions and blueprinting, outside data processing and computer services, etc., are charged at 1.15 times the direct cost.

**Travel Expenses** – Mileage at current IRS allowable rates. Per diem where overnight stay is involved is charged at cost.

**Invoices, Late Charges** – All fees will be billed to Client monthly and shall be due and payable upon receipt. Invoices are delinquent if not paid within 30 days from the date of the invoice. Client agrees to pay a monthly late charge equal to 1% per month of the outstanding balance until paid in full.

**Annual Increases** – Unless identified otherwise, these standard rates will increase 3% annually.

The rates listed above assume prevailing wage rates does not apply. If this assumption is incorrect Dudek reserves the right to adjust its rates accordingly.



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**DATE:** September 1, 2022  
**TO:** Board of Directors  
**FROM:** Heather Dyer, CEO/General Manager  
**SUBJECT:** Discuss and Provide Direction to Staff establishing Board Meeting and Workshop Protocol

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### **Staff Recommendation**

Staff recommends the Board of Directors discuss and provide direction to staff on the following items: 1) Formally establish a time limit for public comment, 2) Consider taking formal Board actions at workshops, 3) Establish a common practice for approval of meeting minutes.

### **Summary**

The District is required to adhere to a set of guidelines set forth under the Ralph M. Brown Act (Brown Act) to ensure members of the public have proper access to the meeting and that the District is properly and timely posting agendas. Under the Brown Act any action, possible action or discussion must be specifically identified as such on the agenda in order for the Board to vote on the agenda item. First, at the request of the Board, this item is being presented to discuss establishing a formal public comment time limit. Second, staff has identified a few additional areas for Board discussion that would reduce the repetitiveness of agenda items, reduce workload related to preparation and review of staff memos, and reduce confusion regarding meeting minutes. All changes proposed for consideration continue adherence to the Brown Act and provide the public transparency the Board desires.

### **Meeting and Agenda Protocol Items for Discussion**

Provide direction to staff on the following items as they pertain to setting agenda protocol:

1. Consider setting a time limit for Public Comment posted on all agendas.

The Board of Directors handbook suggests the Board consider setting a time limit for public comment. Staff's research of other local water agencies has concluded that most agencies provide a three (3) minute time limit per speaker for public comment.

- Staff requests the Board provide direction regarding a maximum time limit per public comment speaker that would be posted on all future agendas.

2. Consider taking Board action at Workshop meetings.

All Board meetings and Board Workshops are properly agendaized under the Brown Act, and therefore, so long as a quorum is present, Board action/voting on items can occur at these meetings. The “regular” meeting of the Board of Directors occurs on the first and third Tuesdays of each month. Historically, items were taken to a “workshop”, or special meeting, for a staff presentation to the Directors present, which were optionally attended by Board members. In the past, not all Directors attended the workshops, and a quorum was not always met or required. The workshops were usually held in the conference room for a less formal setting and staff requested items be “forwarded to a future regular Board meeting” for final vote and consideration when all Directors were present. In recent years, the Directors’ practice has been to attend all workshops. Due to the fact that all Directors have heard the staff presentation during a workshop, had discussion on the item and due to the number of items on our agendas, the General Manager has been presenting a shortened explanation of the action items at Board meetings with a reference that the item was previously presented at a workshop and now being forwarded to a regular Board meeting for consideration. Over the past six (6) months the Board has reviewed staff memos and background documents for approximately 150 agenda items, between the workshops and regular Board meetings. Roughly 85-90% of those items have come to the Board twice with minimal changes, once at the workshop and then again at the Board meeting. The preparation of two sets of staff memos and corresponding documents for the two meetings takes a significant amount of time and lengthens the amount of time needed to present items to the Board for consideration. In an effort to be more efficient and reduce the duplication of effort, staff proposes the Board consider taking action at all meetings, regular Board meetings and workshops, when a quorum is present, and the Board has no additional questions or feedback on a particular item. This would also allow staff to get contracts signed and projects moving quicker than if waiting for an upcoming regular meeting for Board action.

- Staff is requesting the Board discuss the option of taking action at Board Workshops in addition to regular Board meetings. At their discretion, the Board may direct staff to bring back any item at a future meeting for additional review,

discussion, and consideration thus allowing more time for staff to compile additional information as requested by the Board.

3. Consider approving both Workshop and Board minutes at Board meetings.

Currently all workshop summary notes are reviewed at the Board meeting under Reports and at each individual workshop. In the past, since no formal action was taken at workshops, the summary notes were much less detailed and comprehensive than regular meeting minutes. In the last two years, we have transitioned to all meetings having the same level of detail presented in a “minute” format rather than a summary report for workshops. If the Board authorizes the protocol to approve items at workshops, then workshop minutes would need to be formally approved by the Board at a Board meeting.

- Staff is requesting the Board discuss changing the workshop summary notes to workshop minutes which would be formally approved at the Board meeting during the “Approve Meeting Minutes” portion of the agenda.

4. Consider a Consent Calendar on the Board meeting agenda

A Consent Calendar allows the Board to approve all items listed under the title “Consent Calendar” together without discussion or individual motions. This allows a streamlined process increasing the productivity and overall flow of the meeting. During the meeting, prior to the vote on the consent calendar, the President would ask each Board member if they had any items identified on the consent calendar they would like to be pulled for individual discussion and action. Typically, items that would be placed on a consent calendar would be routine, procedural, informational and self-explanatory non-controversial items. Over the past six months a few items that could have been considered for this calendar would include Board minutes, Resolution setting the appropriation limit, Resolution for remote meetings under the Brown Act, Resolution for approval of a grant application and Resolution appointing the district’s Watermaster representative.

- Staff is requesting the Board discuss utilizing a Consent Calendar on Board meeting agenda.

**Fiscal Impact**

There is no fiscal impact to establishing a protocol of Board meeting and Workshop agendas.