



## **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.

### **REGULAR MEETING OF THE BOARD OF DIRECTORS TUESDAY, AUGUST 16, 2022 – 2:00 P.M.**

#### **PUBLIC PARTICIPATION**

Public participation is welcome and encouraged. You may participate in the August 16, 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: 684 456 030**

**PASSCODE: 3802020**

**<https://sbvmwd.zoom.us/j/684456030>**

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 Monday, August 15, 2022. All public comments will be provided to the President 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

**REGULAR MEETING OF THE BOARD OF DIRECTORS**

**AGENDA**

**2:00 PM Tuesday, August 16, 2022**

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**CALL TO ORDER/PLEDGE OF ALLEGIANCE/ROLL CALL**

**1) 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.

**2) APPROVAL OF MINUTES**

2.1 August 2, 2022, Meeting (Page 4)  
[BOD Minutes 080222](#)

**3) DISCUSSION AND POSSIBLE ACTION ITEMS**

3.1 Consider the Approval of the Fiscal Year 2022-2023 Joint Funding Agreement for Water Resources Investigations with the United States Geological Survey (Page 12)  
[Staff Memo - Consider the Approval of the Fiscal Year 2022-2023 Joint Funding Agreement for Water Resources Investigations with the United States Geological Survey Fiscal Year 2022-2023 Joint Funding Agreement](#)

3.2 Authorize the Purchase of a Network Firewall and Monitoring/Analytics Application (Page 25)  
[Staff Memo - Authorize the Purchase of a Network Firewall and Monitoring/Analytics Application](#)  
[Fortinet Security Fabric Tools illustration](#)

3.3 Authorize the Purchase of a Core Switch (Page 28)  
[Staff Memo - Authorize the Purchase of a Core Switch](#)  
[Nth Generation core switch quote](#)

3.4 Consider Replacement of Two Air Conditioning Units at Greenspot and Crafton Hills Pump

Stations(Page 32)

Staff Memo - Consider Replacement of Two Air Conditioning Units at Greenspot and Crafton Hills Pump Stations

Quotes for Replacement of two 2 AC units by Ontario Refrigeration

**4) REPORTS (Discussion and Possible Action)**

4.1 CEO/General Manager's Report (Page 38)

Staff Memo - CEO/General Manager's Report

Solve the Water Crisis Coalition Information

California's water supply goes beyond the current drought - Orange County Register

4.2 State Water Project Report (Page 47)

Staff Memo - State Water Project Report

SWC Statement: State Water Contractors Applaud Release of Draft Environmental Impact Report for the Delta Conveyance Project

Sites Reservoir Monthly Status Report - June 2022

4.3 Directors' Report of Activities and Travel Requests in accordance with Resolution 1100 (Page 53)

SBVMWD Director Fees and Expenses paid in July 2022

Director Botello Activity Report - July

Director Harrison Activity Report - July

Director Hayes Activity Report - July

Director Kielhold Activity Report - July

Director Longville Activity Report - July

4.4 General Counsel Report

4.5 SAWPA Meeting Report

4.6 Operations Report (Page 59)

Operations Report - July 2022

4.7 Treasurer's Report (Page 65)

Treasurer's Report - July 2022

4.8 Board of Directors Tres Lagos Master Plan Workshop - July 27, 2022 (Page 77)

Summary Notes BOD Special Workshop 072722

**5) FUTURE BUSINESS**

**6) ANNOUNCEMENTS**

6.1 List of Announcements (Page 89)

List of Announcements 081622

**7) CLOSED SESSION**

7.1 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

- 7.2 Conference with Real Property Negotiators - Pursuant to Government Code Section 54956.8  
Property APNs 1210-211-12, -13, and -14.  
Agency negotiator: Heather Dyer, Wen Huang  
Negotiating parties: Diversified Pacific - Under negotiation: Price and terms of payment.

**8) 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.



**MINUTES  
OF  
THE  
REGULAR BOARD MEETING  
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT**

**August 2, 2022**

**Directors Present:** Gil J. Botello, T. Milford Harrison, June Hayes, Susan Longville, and Paul R. Kielhold

**Directors Absent:** None.

**Staff Present:**

Wen Huang, PE, MS – Deputy General Manager / Chief Engineer  
Jose Macedo, ML, CPT-P (USA Retired) – Chief of Staff / Clerk of the Board  
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  
Adekunle Ojo, MPA – Water Resources Manager  
Karen Resendez, MAOL – Human Resources / Risk Manager  
Shavonne Turner, MPA – Water Conservation Program Manager

Olivia Ramirez, SBVMWD Intern

Brad Neufeld, Varner & Brandt, District Counsel

**Members of the Public in Attendance:**

Melody McDonald, San Bernardino Valley Water Conservation District  
John Longville, San Bernardino Valley Water Conservation District  
Ben Kelly, Western Heights Mutual Water Company  
Allen Bartleman  
Jessica McDermott

The regular meeting of the Board of Directors was called to order by President Kielhold at 2:00 p.m. Director Botello led the Pledge of Allegiance. A quorum was noted present by roll call.

**Agenda Item 1. Public Comment**

President Kielhold stated that any member of the public wishing to make any comments to the Board may do so.

Mr. Allen Bartleman spoke during public comment.

### **Agenda Item 2. Approval of Minutes of the July 19, 2022, Board Meeting.**

The minutes of the July 19, 2022, Regular Board meeting were approved by the following roll-call vote:

MOVED: Harrison	SECONDED: Botello	APPROVED: 5-0
AYES:	Botello, Harrison, Hayes, Longville, Kielhold	
NOES:	None	
ABSTAIN:	None	
ABSENT:	None	

### **Agenda Item 3. Discussion and Possible Action Items.**

**3.1) Consider Adoption of Resolution No. 1159 Setting a Tax Levy and Approval of the State Water Contract and Devil Canyon Castaic Debt Service Fund Budgets for Fiscal Year 2022- 2023.** Deputy General Manager / Chief Financial Officer Cindy Saks reminded the Board of discussion at the July 21, 2022 Workshop. It is an annual requirement of the Board to set a tax rate to pay for State Water Contract expenditures for the next fiscal year. Based on discussion, staff was directed to prepare the budget based on a tax rate of \$0.13 per \$100 of assessed valuation, the same rate as the prior year.

Director Harrison pointed out the board was able to maintain the same tax rate as the prior year even with increasing costs.

The Board of Directors approved a Debt Service Fund tax rate at \$0.13 per \$100 of assessed valuation, adopted Resolution No. 1159 setting a Tax Levy, and approved the State Water Contract and Devil Canyon Castaic Debt Service Fund Budgets for Fiscal Year 2022- 2023 by the following roll-call vote:

MOVED: Longville	SECONDED: Hayes	APPROVED: 5-0
AYES:	Botello, Harrison, Hayes, Kielhold, Longville	
NOES:	None	
ABSTAIN:	None	
ABSENT:	None	

### **RESOLUTION NO. 1159**

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
SAN BERNARDINO VALLEY MUNICIPAL WATER  
DISTRICT DETERMINING THE AMOUNT OF MONEY  
NEEDED TO MAKE ANNUAL PAYMENTS FOR  
INDEBTEDNESS APPROVED BY THE VOTERS PRIOR TO  
JULY 1, 1978, AND/OR FOR WHICH A TAX LEVY IS  
REQUIRED UNDER ARTICLE I, SECTION 10 OF THE  
UNITED STATES CONSTITUTION AND MAKING A TAX  
LEVY THEREFOR**

**(SEE RESOLUTION BOOK)**

**3.2) Consideration of Fiscal Year 2022-2023 State Water Project Audit Contract with Ernst & Young, LLP.** Deputy General Manager / Chief Financial Officer Cindy Saks explained that each year, the State Water Contractors Association (SWC) hires an auditing firm to perform some agreed-upon procedures of expenses of the Department of Water Resources (DWR). The services are advisory in nature and are not a formal audit but do ensure proper and efficient use of funds paid by the SWC to the DWR, she stated.

For the 2022-23 year, the cost to the District to perform these auditing services range from \$38,021 to \$46,752 if only 80 percent of the agencies participate, Ms. Saks advised. Historically, more than 80 percent of the agencies participate. This is an increase of \$991 over the prior year. The SWC and Valley District find this a worthwhile investment, she noted.

District Legal Counsel Brad Neufeld detailed some minor amendments necessary to comply with applicable law. He pointed to the California Public Records Act considerations. In response to a question from Vice President Hayes, Neufeld said that Ernst and Young indicated they would review the concerns.

In response to Vice President Hayes, Mr. Neufeld noted he did not expect Ernst and Young to reject the amendment, but would communicate the work is desired, but there is no exception under the law that allows denial of a copy of the report.

The Board of Directors approved the contract with Ernst and Young to provide auditing services for the 2022-2023 year for an amount not to exceed \$46,752 and authorized the CEO/General Manager to sign the agreement, subject to amendments necessary to comply with applicable law by the following roll-call vote:

MOVED: Hayes	SECONDED: Harrison	APPROVED: 5-0
AYES:	Botello, Harrison, Hayes, Kielhold, Longville	
NOES:	None	
ABSTAIN:	None	
ABSENT:	None	

**3.3) Consider Initiating the Development of a Master Plan for the Tres Lagos Property.** Deputy General Manager / Chief Engineer Wen Huang noted that due to the development of the Habitat Conservation Plan and the need for mitigation land in support of many water projects over the next several decades, the District acquired 1,650 acres of land in the east Highland area earlier this year. Since then, there have been workshops conducted with the Board, public, and stakeholders. Staff requests Board direction for the next logical step, a request for proposal (RFP) for master planning on the Tres Lagos property.

Mr. Huang provided background on the land and its purchase in February 2022 for just under \$32 million. Opportunities for the land have been discussed in workshops on April 21 and July 27, and include recreational space, conservation land, open space, habitat value, and water infrastructure. The concept includes two or three reservoirs which can be used to provide additional emergency water supply for some of the retail agencies, and provide some system redundancy, he explained.

Director Harrison and Director Longville indicated they would like to see the RFP before it is published. Director Botello concurred, saying that this is a huge undertaking. President Kielhold indicated that by the time the RFP goes out, he would like to see written summaries of the workshops and would like to know that there has been some attempt at gauging retailer interest with a more directed survey. He said he would also like to see a draft of District priorities to see where the project fits in. The Board needs to know the priorities and how this project relates to other projects, he said.

The Board approved the composition of an RFP for development of a Master Plan for the Tres Lagos property to be brought back to the Board for review before distribution by the following roll-call vote:

MOVED: Harrison	SECONDED: Botello	APPROVED: 5-0
AYES:	Botello, Harrison, Hayes, Kielhold, Longville	
NOES:	None	
ABSTAIN:	None	
ABSENT:	None	

**3.4) Consider In-Person meetings or alternatively Resolution 1160 authorizing the San Bernardino Valley Municipal Water District to conduct remote meetings for the period August 2, 2022, through August 30, 2022.**

Vice President Hayes supported continuing remote meetings. She asked Business Systems Analyst Anthony Flordelis about plans to continue to have the teleconference format available upon returning to meeting in person. Mr. Flordelis stated all options are available with the recent Board Room upgrade.

Director Harrison agreed and said he wants to see what happens with Assembly Bill 2449 before making any further decision or varying from the pattern.

The Board of Directors adopted Resolution No. 1160 authorizing the San Bernardino Valley Municipal Water District to conduct remote meetings for the period August 2, 2022, through August 31, 2022 by the following roll-call vote:

MOVED: Harrison	SECONDED: Botello	APPROVED: 5-0
AYES:	Botello, Harrison, Hayes, Kielhold, Longville	
NOES:	None	
ABSTAIN:	None	
ABSENT:	None	

**RESOLUTION NO. 1160**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT PROCLAIMING A LOCAL EMERGENCY, RATIFYING THE PROCLAMATION OF A STATE OF EMERGENCY BY GOVERNOR GAVIN NEWSOM ON MARCH 4, 2020, AND AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES OF SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT FOR THE PERIOD AUGUST 2, 2022, THROUGH AUGUST 31, 2022, PURSUANT TO BROWN ACT PROVISIONS.**

**(SEE RESOLUTION BOOK)**

**Agenda Item 4. Reports (Discussion and Possible Action Items).**

**4.1) Directors' Report of Activities**

Director Botello reported that he attended:

- July - Climate Center Webinar
- July 23 - Sterling Natural Resources Center Ribbon Cutting
- July 28 - John Mura (East Valley Water District) Retirement

Vice President Hayes reported that she attended:

- July 18 - Special Districts meeting
- July 21- San Bernardino Valley Water Conservation District
- July 21 - West Valley Water District
- July 23 - Sterling Natural Resources Center Ribbon Cutting
- July 28 - Online Desalination Workshop by Greeley and Hansen
- July 28 - John Mura (East Valley Water District) Retirement
- July 29 - Conferred with Jeff Mosher from SAWPA

Director Longville reported that she attended:

- July 23 - Sterling Natural Resources Center Ribbon Cutting
- July 29 - Hiked up to John's Meadow

Director Harrison reported that he attended:

- July 20 - San Bernardino Conservation Trust Board Meeting
- July 23 - Sterling Natural Resources Center Ribbon Cutting
- July 28 - John Mura (East Valley Water District) Retirement
- July 28 - Redlands Chamber of Commerce

Director Harrison requested authorization to attend the National Habitat Conservation Plan (HCP) Conference in Austin, Texas, October 24-27, as he is on the Government Relations Committee. He encouraged other Board members to attend; Vice President Hayes and Director Longville said they would consider it.

The Board of Directors approved Director Harrison's travel request by the following roll-call vote:

MOVED: Harrison	SECONDED: Hayes	APPROVED: 5-0
AYES:	Botello, Harrison, Hayes, Kielhold, Longville	
NOES:	None	
ABSTAIN:	None	
ABSENT:	None	

President Kielhold reported that he attended:

- July 20 - Yucaipa Valley Water District Community Water Meeting

- July 23 - Sterling Natural Resources Center Ribbon Cutting
- July 28 - John Mura (East Valley Water District) Retirement
- July 28 - Redlands Chamber of Commerce

In response to Director Harrison, President Kielhold commented on the value of attending the Yucaipa Valley Water District Community Water Meeting.

**4.2) General Counsel Report.** Brad Neufeld of Varner & Brandt reported that escrow closed on July 22, 2022 on the sale of six parcels of surplus land totaling approximately 2.96 acres adjacent to Bryce Haines Park in San Bernardino. The terms of the sale were approved by the Board in Closed Session on January 4, 2022.

AB 2449 continues its journey through the legislature but unfortunately there have been some troubling amendments made, Neufeld advised. As long as there remains a state of emergency, the District can continue to follow current practice of remote meetings.

#### **4.3) SAWPA Meeting report.**

The August 2 meeting was cancelled. The next regular meeting will be held August 16, 2022.

**Special PA 24 Committee:** Director Harrison reported that at the Project 24 Meeting an RFP to create a master plan for the Brine Line operation was authorized.

**4.4) Board of Directors Workshop - Resources – July 7, 2022.** No oral report was given as a written report was included in the Board packet. The report was received without changes.

**4.5) Board of Directors Workshop - Engineering – July 12, 2022.** No oral report was given as a written report was included in the Board packet. The report was received without changes.

**4.6) Board of Directors Workshop – Policy – July 14, 2022.** No oral report was given as a written report was included in the Board packet. The report was received without changes.

**4.7) Board of Directors s Debt Service Fund Budget Workshop – July 21, 2022.** No oral report was given as a written report was included in the Board packet. The report was received without changes.

**Agenda Item 5. Future Business.** None added.

**Agenda Item 6. Announcements.**

**6.1) List of Announcements.** President Kielhold pointed out the list of announcements. Chief of Staff / Clerk of the Board Jose Macedo announced the cancellation of the August 10 USAR WIFA Technical Advisory Committee (TAC) meeting.

**Agenda Item 7. Closed Session.** There was no closed session.

**Agenda Item 8. Adjournment.** The meeting was adjourned by President Kielhold at 2:47 p.m.

<p>APPROVAL CERTIFICATION</p> <p>I hereby certify to approval of the foregoing Minutes of San Bernardino Valley Municipal Water District.</p>  <p>_____</p> <p><b>Secretary</b></p> <p>Date _____</p>
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Respectfully submitted,

Lynda J. Kerney  
Contract Assistant





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**DATE:** August 16, 2022

**TO:** Board of Directors

**FROM:** Bob Tincher, Chief Water Resources Officer/Deputy General Manager  
Adekunle Ojo, Manager of Water Resources

**SUBJECT:** Consider the Approval of the Fiscal Year 2022-2023 Joint Funding Agreement for Water Resources Investigations with the United States Geological Survey

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### **Staff Recommendation**

Staff recommends the Board authorize the CEO/General Manager to execute the Joint Funding Agreement for the Fiscal Year 2022-2023 Water Resources Investigations (“Cooperative Study Program”) with the United States Geological Survey in the amount of \$543,449.

### **Summary**

This item was discussed at the Board of Directors’ – Policy Workshop on August 11 and is a recurring item in the Valley District’s General Fund Budget each year to support science-based decisions and proactive risk management. For decades, Valley District has been a “cooperator” with the United States Geological Survey (USGS). As a cooperator, Valley District has benefited from having the USGS perform various independent scientific studies, or investigations, within the Valley District service area and has provided, or cooperated, in the USGS’ cost for this work.

Staff is recommending the approval of the attached Joint Funding Agreement for Fiscal Year 2022-2023 at a total cost \$543,449. Valley District’s maximum portion of the cost is \$450,882, a decrease of \$110,119 or 20% resulting from the completion of several multiyear tasks. A unique aspect of this year’s program is that some of the tasks in the Yucaipa Basin are optional. USGS cooperative funding match, subject to availability, is \$92,567; this share of the total cost, approximately 17%, is consistent with last year.

### **Background**

The USGS scientific investigations have resulted in the development of groundwater flow models for the San Bernardino Basin Area, Yucaipa Basin and the Rialto-Colton Basin and have provided valuable scientific data and analysis in support of the Upper Santa Ana River Habitat Conservation

Plan. The cost sharing arrangement between Valley District and USGS has fluctuated over the years based upon the amount Congress allocates to the USGS and the needs of Valley District for USGS support. The USGS works cooperatively with Valley District staff on the scope of work to be completed during each Fiscal Year.

The scope of work for Fiscal Year 2022-2023 is attached and includes the following items:

1. **San Bernardino Basin:** Rehabilitation of select USGS monitoring well sites in San Bernardino Basin and evaluation of wells for future rehabilitation
2. **Yucaipa Basin:** Completion of the climate station, and additional groundwater modeling and water quality if requested by the Yucaipa Sustainable Groundwater Management Agency (Valley District is a member)
3. **Rialto-Colton Basin:** Evaluation of USGS monitoring well sites for future rehabilitation
4. **Santa Ana River:** Continuation of Native Fish Study and peer review of the water quality components of the expanded Upper Santa Ana River Integrated Model

#### **District Strategic Plan Application**

The cooperative study program 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**

The total cost of the project proposal is \$543,449; Valley District's share is \$450,882 and USGS's share is \$92,567. Adequate funding for this project is included in the General Fund Budget for Fiscal Year 2022-2023 under line item 6350 United States Geological Survey.

#### **Attachment**

Fiscal Year 2022-2023 Joint Funding Agreement

Form 9-1366  
(May 2018)

**U.S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**JOINT FUNDING AGREEMENT**

FOR

WATER RESOURCES INVESTIGATIONS

Customer #: 600000809  
Agreement #: 22ZGJFA21000008  
Project #: ZG00A4X  
TIN #: 95-6005196  
Fixed Cost Agreement YES

**THIS AGREEMENT is entered into as of the, 3rd day of AUGUST, 2022 by the U.S. GEOLOGICAL SURVEY, 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 availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation for cooperative water resources investigations in the San Bernardino Valley Water District as outlined in the USGS program letter dated August 3, 2022 (Scope of Work) 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) includes In-Kind Services in the amount of \$0.00 .

(a) by the party of the first part during the period

Amount	Date	to	Date
\$92,567.00	August 1, 2022		June 30, 2023

(b) by the party of the second part during the period

Amount	Date	to	Date
\$450,882.00	August 1, 2022		June 30, 2023

USGS DUNS is 1761-38857.

(c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0.00

Description of the USGS regional/national program:  
not applicable

(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.

**9-1366 (Continuation)**      Customer #: 600000809      Agreement #: 22ZGJFA21000008

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://www2.usgs.gov/fsp/>).
9. Billing for this agreement will be rendered.

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.

<p><b>U.S. Geological Survey</b> <b>United States</b> <b>Department of the Interior</b> <b><u>USGS Point of Contact</u></b></p>	<p>San Bernardino Valley Municipal Water District</p> <p><b><u>Customer Point of Contact</u></b></p>
<p>Name: Irene Rios, Budget Analyst</p> <p>Address: 4165 Spruance Rd., Suite 200 San Diego, CA 92101</p> <p>Telephone: 619-225-6156</p> <p>Email: iaros@usgs.gov</p>	<p>Name: Heather Dyer, CEO/General Manager</p> <p>Address: 380 East Vanderbilt Way San Bernardino, California 92408</p> <p>Telephone: 909-387-9256</p> <p>Email: heatherd@sbvmwd.com</p>

**Signatures and Date**

<p>Signature: <b>ALISSA COES</b></p>	<p>Date:</p>	<p>Signature: _____</p> <p>Date: _____</p>
<p>Name: Alissa Coes</p> <p>Title: Acting Director, USGS CA WSC</p>		<p>Name: Heather Dyer</p> <p>Title: CEO/General Manager</p>

Digitally signed by ALISSA COES  
Date: 2022.08.03 13:43:31 -07'00'



# United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
California Water Science Center  
6000 J Street, Placer Hall  
California State University  
Sacramento, California 95819-6129  
Phone: (916) 278-3000 Fax: (916) 278-3070  
<https://www.usgs.gov/centers/ca-water/>

August 3, 2022

Ms. Heather Dyer, CEO/General Manager  
San Bernardino Valley Municipal Water District  
380 East Vanderbilt Way  
San Bernardino, California 92408

Subject: Proposed USGS program for August 1, 2022 – June 30, 2023

Dear Ms. Dyer,

This letter confirms discussions between our respective staffs describing proposed work for the August 1, 2022, through June 30, 2023 agreement period, as part of our cooperative water-resources program between the San Bernardino Valley Municipal Water District (SBVMWD) and the United States Geological Survey (USGS). This 11-month agreement period spans parts of Federal Fiscal Years 2022 and 2023 and is aligned with SBVMWD fiscal years ending June 30.

Six topical tasks are included: one for each of the study areas: Bunker Hill/Lytle Creek Basins (Task 1), Yucaipa Basin (Task 2), and Rialto-Colton Basin (Task 3); tasks related to the Santa Ana River hydraulic and sedimentation study (Task 4) and native fish study (Task 5); and technical review of the Upper Santa Ana River Integrated Model (Task 6).

This letter provides details of the work that are proposed for each of the 6 tasks during the 12-month agreement period. Proposed funding for each task and subtask is summarized in the attached table. Program accomplishments for the previous agreement are documented in a separate letter. This letter, however, does provide brief descriptions of how the proposed work fits within the long-term study plan for each component of the program.

## **1. Optimal Water Management in the Bunker Hill and Lytle Creek Basins**

In the 2022–23 program year, work in the Bunker Hill and Lytle Creek Basins will include validation of the USGS multiple-depth, monitoring-well sites. These sites provide valuable data that are used to better understand and to manage the Bunker Hill and Lytle Creek Basins, including changes in water levels and water quality; calculations of changes in basin storage; estimates of runoff and recharge; and interaction of surface water and groundwater. These data also are used to calibrate the various groundwater-flow and solute-transport models and are used in multiple studies and by multiple water agencies. Specific subtasks include:

### ***1a. Rehabilitate USGS monitoring-well sites***

Rehabilitation of the USGS multiple-depth, monitoring-well sites includes replacement of damaged vaults and well casings; video logging wells; evacuation of silt and debris in wells; and re-development of wells. Re-sampling wells for selected water-quality constituents to evaluate performance of the wells, if needed, could be performed under a future contract. A total of 6 well sites in the Bunker Hill Basin

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(SBSH, SBEP, SBMP, SBCC, SBRV, and SBCM; <https://ca.water.usgs.gov/sanbern>) will be rehabilitated in the 2022–23 program year. Prior to rehabilitation, SBVMWD will be provided an assessment of the 6 well sites and the needed repairs, some of which could be performed under a future contract.

**Deliverables:** Written assessment and description of rehabilitation done at the following 6 well sites: SBSH, SBEP, SBMP, SBCC, SBRV, and SBCM.

***1b. Evaluate rehabilitation of USGS monitoring-well sites***

After rehabilitation of a USGS multiple-depth, monitoring-well site, subsequent water-level and water-quality data will be evaluated and compared to prior data to ensure that (1) the site was rehabilitated sufficiently, and (2) any offset in the data was not induced by the rehabilitation. The following 6 well sites in the Bunker Hill Basin will be evaluated: SBSH, SBEP, SBMP, SBCC, SBRV, and SBCM.

**Deliverables:** Written evaluation of the following 6 well sites: SBSH, SBEP, SBMP, SBCC, SBRV, and SBCM.

**2. Hydrogeology of the Yucaipa Basin**

In the 2022–23 program year, work in the Yucaipa Basin will include finalizing and archiving work completed during the 2021–22 program year, publishing scientific reports, and collecting new climate and water chemistry data. Five reports have been published to better understand the hydrogeology of the Yucaipa Basin, including surface-water and groundwater quality (Mendez and others, 2001); geologic structure (Mendez and others, 2016); geologic, hydrologic, and water-quality data from USGS multiple-depth, monitoring-well sites (Mendez and others, 2018); a three-dimensional hydrogeologic framework model (Cromwell and Matti, 2022); and hydrologic characterization and simulation of the Yucaipa Integrated Hydrologic Model (YIHM; Cromwell and Alzraiee, 2022). During the 2022–23 program year, work in the Yucaipa Basin will continue to build upon the published reports. This work includes four subtasks, as described below.

***2a. Evaluate integrated hydrologic model scenarios, uncertainty analysis, and managed aquifer recharge***

The original work for this subtask was to characterize the hydrogeology and to develop an integrated hydrologic model of the Yucaipa Basin (the YIHM). Two reports were published in January 2022. The first report describes the hydrogeologic framework and characterizes the hydrologic setting of the Yucaipa Basin; the second report describes the YIHM.

Subsequent work for this subtask was divided into two parts. Part 1 included evaluation of the limitations of the YIHM with respect to input data and calibrated model parameters and recommendations for additional data collection. Also included were evaluation and documentation of groundwater management scenarios in the Yucaipa Basin using the YIHM. Part 2 included evaluation of the fate and extent of imported water that was used as managed aquifer recharge. This subsequent work was developed and proposed by the USGS in consultation with SBVMWD staff.

Last year, work for part 1 included: an analysis of locations where new stream gages could be placed or reactivated to improve estimates of surface-water flow and water availability in the YIHM; a statistical analysis of the sensitivity of the YIHM to changes in selected parameters, which provide a greater understanding of how changes to input parameters will affect model results; use of the YIHM to track the source of groundwater flowing to the Yucaipa Regional Park, and flowing from the Wilson Creek and the Oak Glen Creek spreading basins, which can be used to evaluate the sources and paths of groundwater flow through different parts of the groundwater system; and an evaluation of the effects of future climate scenarios on evapotranspiration, groundwater recharge, and storage in the Yucaipa Basin using the YIHM, which will support optimal water management by providing estimates of future

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groundwater recharge and storage. A presentation summarizing the work in part 1 was provided to SBVMWD on June 6, 2022.

In the 2022–23 program year, results from part 1 will be archived so that SBVMWD and their consultants can use the information; location of new stream gages and results from the particle-tracking analysis will be provided to SBVMWD as a USGS-approved powerpoint presentation; results from the parameter sensitivity analysis will be added to the publicly available YIHM model archive; and climate scenarios will be documented in a scientific journal article. Additional funds are requested for the 2022–23 program year to archive the materials described above and publish the scientific journal article.

Last year, work for part 2 included an analysis of water-chemistry data to evaluate the presence of imported water from northern California in selected wells in the Yucaipa Basin over time. The results from this work can be used to evaluate how quickly, and at what depths, the imported water has traveled through the groundwater system. A preliminary report has been prepared and is in initial review.

In the 2022–23 program year, the report from part 2 will be revised following colleague review and cooperative review from SBVMWD, and will be published as a USGS report. Additional funds are requested to finalize and publish this report.

**Deliverables:** (1) A USGS-approved presentation that includes the optimal locations of new stream gages, results from the particle-tracking analysis, and the effect of future climate scenarios on groundwater availability in the Yucaipa Valley. (2) Updates to the YIHM model archive with the YIHM parameter sensitivity results. (3) A scientific journal article describing effects of future climate scenarios in the YIHM on groundwater recharge. (4) A report describing the presence and rate of flow of imported water in the groundwater system. (5) Written summary of work performed each quarter to support this subtask.

***2b. Analyze groundwater age, stable isotopes, and nitrate concentrations in the Yucaipa and San Bernardino Basins – tentative upon approval***

The purpose of this subtask is to better understand the groundwater chemistry and the hydrogeology of the Yucaipa and San Bernardino Basins, including flow between the basins, by investigating groundwater chemical signatures from selected wells. For the 2022–23 program year, this subtask contains elements of groundwater chemical analyses that previously were part of different subtasks, which were developed by the USGS in consultation with SBVMWD. The scope of this subtask was modified to combine the evaluation of nitrate concentrations in the Yucaipa Basin (previously subtask 2c) and the evaluation of stable isotopes and groundwater age in the Yucaipa and Bunker Hill Basins (previously subtask 2d). The modified scope provides a more comprehensive analysis of groundwater flow in the groundwater system over different timescales and allows for the findings to be published in a single report.

The work in this subtask will help to better understand the sources of groundwater recharge in the Yucaipa and Bunker Hill Basins, to provide better estimates of groundwater flow paths and travel time of groundwater recharge in different parts of the basins, and to better understand historical changes in groundwater chemistry with respect to nitrate contamination. This investigation includes a correlation of groundwater age and stable-isotope chemistry to refine sources of groundwater recharge, a comparison of groundwater chemistry between the two basins relative to geography and hydrogeology, and an analysis of the fate and transport of nitrate in the groundwater system. The results from this subtask will improve the conceptual and quantitative understanding of groundwater flow in the Yucaipa and Bunker Hill Basins and can be used to improve numerical simulations of groundwater flow in the YIHM and in the Upper Santa Ana River Integrated Model (USARIM).



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A draft of the scientific journal article will be provided to SBVMWD for review by January 31, 2023; final publication of this journal article is expected to occur during the 2022–23 program year. Additional funds are requested to accommodate the change in scope and to complete the journal article.

**Deliverables:** Written summary of work performed each quarter to support this subtask. Draft and published journal article.

***2c. Install and monitor climate stations***

The purpose of this subtask is to install and monitor two climate stations in the Yucaipa Basin. The climate stations will monitor temperature and precipitation at selected intervals. The data collected from these stations can be used to make water-management decisions and can be used to refine climate input data for the YIHM. The locations of these two climate stations were selected during program year 2021–22 in cooperation with SBVMWD and were chosen to provide a range of climatic information within the Yucaipa Basin. One station was installed during program year 2021–2022 near the central part of the Yucaipa Basin near South Mesa Water Company well number 9. The second station, located in the northern part of the Yucaipa Basin near the San Bernardino Mountains, was not installed during program year 2021–22 due to unanticipated logistical and permitting issues with the City of Yucaipa, which owns the land on which the second site is to be installed. The logistical and permitting issues yet to be resolved include construction of a cement retaining wall around the climate station. The second station is planned to be installed during program year 2022–23.

In the 2022–23 program year, the second climate station will be installed, both stations will be monitored, and the data will be archived according to USGS Fundamental Science Practices. Funding is requested to complete installation of the second climate station, including construction of the retaining wall, and to monitor data collection at both stations. In this agreement, funds for monitoring both stations are requested only for July 1 through September 30, 2022. Beginning October 1, 2022, the USGS Redlands Field Office will be responsible for monitoring the two stations and will be funded through a separate agreement between SBVMWD and the USGS Redlands Field Office.

**Deliverables:** Two operating climate stations and established monitoring program. Written summary of work performed each quarter to support this subtask.

***2d. Sample for water quality at USGS monitoring-well sites – tentative upon approval***

The purpose of this subtask is to collect new groundwater-quality data from the 4 USGS multiple-depth, monitoring-well sites in the Yucaipa Basin (YVWC, YVDA, YVEP, and YV6E). The 4 sites have a combined total of 18 individual wells, each perforated at a different depth. Wells at the four sites were last sampled between 2014 and 2016, except for the three most shallow wells at site YV6E which were sampled in 2019. New groundwater-quality data are necessary to evaluate present conditions of the groundwater system in order to evaluate the effects of anthropogenic changes on the groundwater system, such as an increase or decrease in pumping and changes to the rate and location of managed aquifer recharge, with specific relevance to the Wilson Creek and the Oak Glen Creek spreading basins; and to better constrain estimates of groundwater flow paths through the aquifer and the length of travel time within, and between, groundwater subareas within the Yucaipa Basin. The collection of new groundwater quality data also will contribute to a long-term record of chemical data in the Yucaipa Basin that are necessary to evaluate long-term changes in groundwater quality in the basin.

In the 2022–23 program year, groundwater samples will be collected from wells at each of the 4 USGS multiple-depth, monitoring-well sites in the Yucaipa Basin. Laboratory analyses will be performed to measure major and minor ions, trace elements, nutrients, stable isotopes of oxygen and hydrogen, tritium, and carbon-14. The analytical results will be archived in the USGS National Water



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Information Systems (NWIS) database, which is a publicly available, permanent archive; and a summary of the results will be presented to SBVMWD at the end of the program year.

**Deliverables:** Analytical results for all samples will be archived in the NWIS database. A presentation will be given to SBVMWD by June 30, 2023 summarizing the analytical results. Written summary of work performed each quarter to support this subtask.

***2e. Provide technical outreach – tentative upon approval***

If requested by SBVMWD, the USGS will provide technical outreach to the Yucaipa groundwater sustainability agency, the several water agencies, and the general public in the Yucaipa Basin. The USGS will provide the necessary technical guidance and support to help ensure success as these parties continue to work together and develop hydrogeologic understanding and water management plans. This technical outreach may include attendance at meetings, giving presentations, individual briefings of agencies, completing publication of information products, maintenance and updating the project web page, technical review of proposed plans, and technical support for the USGS integrated hydrologic model YIHM.

**Deliverable:** Written summary of technical outreach provided each quarter to support this subtask.

**3. Rialto–Colton Basin**

In the 2022–23 program year, work in the Rialto-Colton Basin will include an inventory of 18 USGS multiple-depth, monitoring-well sites. These sites provide valuable data that are used to better understand and to manage the Rialto-Colton Basin, including changes in water levels and water quality; calculations of changes in basin storage; estimates of runoff and recharge; and interaction of surface water and groundwater. These data also are used to calibrate the various groundwater-flow and solute-transport models and are used in multiple studies and by multiple water agencies. Specific subtasks include:

***3a. Inventory USGS monitoring-well sites***

Inventory of the 18 USGS multiple-depth, monitoring-well sites in the Rialto-Colton Basin will include written descriptions and photographs of each site documenting the physical condition of the site infrastructure. Documentation of the physical condition of each site will be used to evaluate whether any of the sites should be rehabilitated in future program years. The 18 sites inventoried in the 2022–23 program year are El Verde Reservoir, Linden Ponds, Apple St, Cedar Ave, Vineyard Ave, Fontana Landfill, Airport, Easton Reservoir, RCNE, RCSW, Rialto Ave, Cesar Chavez Park, Fogg 1, Fogg 2, CRCR, Lilac Park, RHSW, and RCZ6. SBVMWD will be provided written descriptions, photographs, and an assessment of the 18 sites and any needed repairs or rehabilitation, which could be performed under a future contract.

**Deliverables:** Written assessment and description of any suggested repair or rehabilitation for the 18 USGS monitoring-well sites: El Verde Reservoir, Linden Ponds, Apple St, Cedar Ave, Vineyard Ave, Fontana Landfill, Airport, Easton Reservoir, RCNE, RCSW, Rialto Ave, Cesar Chavez Park, Fogg 1, Fogg 2, CRCR, Lilac Park, RHSW, and RCZ6.

**4. Santa Ana River**

In the 2022–23 program year, no work will be performed on this task. Previous work on this task was related to sediment transport along the Santa Ana River. All previous work has been completed.

**Deliverables:** None.

**5. Santa Ana Native Fish Study**

In the 2022–23 program year, work on the Santa Ana native fish study will include continued estimation of population and habitat features for native fish species in the study area. This effort will include sampling

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areas where the Santa Ana Sucker was observed during the 2021 surveying period, which spanned from the Van Buren Bridge to the Rialto Channel. The Santa Ana Sucker (*Catostomus santaanae*) is listed as a threatened species under federal legislation and is considered a species of special concern in California by the California Department of Fish and Wildlife (Moyle, 2002). The Arroyo Chub (*Gila orcutti*) is considered a species of special concern in California by the California Department of Fish and Wildlife (Moyle, 2002). Both species are present in the Santa Ana River watershed in the area being evaluated for establishment of the upper Santa Ana River Habitat Conservation Plan (HCP).

Developing an HCP requires sufficient knowledge of the populations of interest to develop plans for their protection and management. The ability to monitor population abundance and habitat availability with some level of confidence is important when developing such plans. Initial assessment of the available data within the HCP suggested to the concerned parties that additional data that extends spatially and temporally are needed on population density and availability of suitable habitat to support development of the HCP. The overall objective of this proposed work in Task 5 is to address those needs. Specific subtasks include:

***5a. Develop a population estimate for native and non-native fish species***

In the 2022–23 program year, a full population survey for native fishes of the Santa Ana River will be conducted in order to continue documenting the baseline condition of the Santa Ana Sucker and the Arroyo Chub within the mainstem. The survey will be completed in September 2022 and plans are to sample between the Rialto Channel and the Van Buren Bridge, where the presence of native fishes was confirmed during 2021 surveys. The survey will use the sampling methods developed in 2015 and 2016, which have been refined and updated based on river conditions. Results of the survey will be used to estimate the total population of the Santa Ana Sucker and the Arroyo Chub within the study area along with estimates of non-native predator fish. The data also will be used to refine understanding of habitat suitability for native fishes and proposed habitat improvement projects. Lastly, this data will be incorporated into the continued development of a population viability analysis (refer subtask 5b).

***5b. Continue development of a population viability analysis (PVA) for native fishes in the Santa Ana River***

Population viability analysis (PVA) is a powerful tool used by conservation biologists to evaluate extirpation risk for species. The development of a PVA has been highlighted as a priority action needed by the Santa Ana Sucker Recovery Plan (USFWS, 2017). To help achieve this goal, multiple data sets collected within the Santa Ana River specific to fish surveys were compiled, and a rough draft of a PVA for the Santa Ana Sucker was developed.

In the 2022–23 program year, work will include additional compilation of data sets from interested parties (USFWS, US Army Corps of Engineers, Orange County Water District) and refinement of the PVA as new data sets become available. Use of the PVA will be expanded to assess different management scenarios planned to assess risks to native fish persistence in the Santa Ana River. Results from this subtask will be valuable for decision making and prioritizing threats to target for remediation. If requested by SBVMWD, the USGS will participate in workshops and symposia to support monitoring and management of the Santa Ana River fishes.

**Deliverables:** Written summary of work performed each quarter to support this subtask. Results of the population estimate survey, population dynamics modeling, and the PVA analysis will be presented annually, or more frequently by request, to the SBVMWD as well as to other interested parties. The USGS will continue to refine and develop draft manuscripts describing the results of the population abundance, bioenergetics, and habitat use results collected to date with the goal of having one or more draft manuscripts submitted to a journal by the winter/spring of 2022–23.

**6. Upper Santa Ana River Integrated Model**

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In the 2022–23 program year, work will continue to provide technical support and peer review for development and use of the Upper Santa Ana River Integrated Model (USARIM). In the past program years (2018–2022), the USGS provided technical support and peer review to SBVMWD and their consultants, and attended meetings and workshops related to the USARIM. This next year, USGS support will include review of the final version of the USARIM and expansion of that model to track groundwater movement of dissolved solids and nitrate. Specific subtasks include:

***6a. Review the expanded Upper Santa Ana River Integrated Model***

In the 2022–23 program year, the USGS will review expansion of the Upper Santa Ana River Integrated Model (USARIM), which is now designed to track groundwater movement of dissolved solids and nitrate. This review will include attendance at Technical Advisory Committee (TAC) meetings where the modeling plans, procedures, and results are presented and discussed; review of Technical Memoranda provided by the consultant that describe development, calibration, and use of the USARIM; review of the USARIM computer code and model files; discussions with the consultant and other peer reviewers about the USARIM, model files, and related Technical Memoranda; and preparation of written review comments.

**Deliverables:** Written review comments and summary of work performed.

***6b. Report on the geology of the Upper Santa Ana River groundwater basin***

USGS involvement in subtask 6a resulted in an evaluation of the geology of the Upper Santa Ana River groundwater basin, and a description of basin development over geologic time. These findings have been summarized in a journal article, which has been submitted for USGS review. Final publication is expected to occur during 2023. No additional funds are requested for this subtask.

**Deliverables:** USGS-approved scientific journal article.

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The proposed program for the August 1, 2022 – June 30, 2023 agreement period, including the six major tasks and associated subtasks and costs, are as follows:

Basin and Task	Funding		
	SBVMWD	USGS	Total
<b>1. Bunker Hill and Lytle Creek Basins</b>			
a. Rehabilitate USGS monitoring-well sites	\$23,950	\$4,533	\$28,483
b. Evaluate rehabilitation of USGS monitoring-well sites	\$18,896	\$4,724	\$23,620
<i>Subtotal</i>	<b>\$42,846</b>	<b>\$9,257</b>	<b>\$52,103</b>
<b>2. Yucaipa Basin</b>			
a. Evaluate integrated hydrologic model scenarios, uncertainty analysis, and managed aquifer recharge	\$30,019	\$7,505	\$37,524
b. Analyze groundwater age, stable isotopes, and nitrate concentrations in the Yucaipa and San Bernardino Basins – tentative upon approval	\$27,360	\$6,840	\$34,200
c. Install and monitor climate stations	\$39,447	\$3,646	\$43,093
d. Sample for water-quality at USGS monitoring-well sites – tentative upon approval	\$83,879	\$13,019	\$96,898
e. Provide technical outreach – tentative upon approval	\$12,469	\$3,118	\$15,587
<i>Subtotal</i>	<b>\$193,174</b>	<b>\$34,128</b>	<b>\$227,302</b>
<b>3. Rialto–Colton Basin</b>			
a. Inventory USGS monitoring-well sites	\$14,079	\$3,156	\$17,235
<i>Subtotal</i>	<b>\$14,079</b>	<b>\$3,156</b>	<b>\$17,235</b>
<b>4. Santa Ana River</b>			
All work has been completed	—	—	—
<i>Subtotal</i>	—	—	—
<b>5. Santa Ana Native Fish Study</b>			
a. Develop a population estimate for native and non-native fish species	\$166,570	\$37,474	\$204,044
b. Continue Development of a Population Viability Analysis for native fishes in the Santa Ana River			
<i>Subtotal</i>	<b>\$166,570</b>	<b>\$37,474</b>	<b>\$204,044</b>
<b>6. Upper Santa Ana River Integrated Model</b>			
a. Review the expanded Upper Santa Ana River Integrated Model, designed to track movement of dissolved solids and nitrate	\$34,213	\$8,552	\$42,765
b. Report on geology of Upper Santa River groundwater basin	\$0	\$0	\$0
<i>Subtotal</i>	<b>\$34,213</b>	<b>\$8,552</b>	<b>\$42,765</b>
<b>TOTAL (Tasks 1-6)</b>	<b>\$450,882</b>	<b>\$92,567</b>	<b>\$543,449</b>
<b>TOTAL (Tasks 1-6) without tentative upon approval (2b,2d&amp;2e) tasks</b>	<b>\$327,174</b>	<b>\$69,590</b>	<b>\$396,764</b>

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Total cost for the proposed investigations program is **\$543,449**. Cost to SBVMWD is **\$450,882**. Subject to the availability of cooperative matching funds, the USGS will provide **\$92,567**. Total cost is for the agreement period August 1, 2022 through June 30, 2023.

Enclosed is a digital version of Joint Funding Agreement's (JFA) 22ZGJFA21000008 for your approval. If you are in agreement with this proposed program, please return a fully executed JFA to our office via email address [iarios@usgs.gov](mailto:iarios@usgs.gov). Work performed with funds from this JFA will be conducted on a fixed-price basis. Billing for the agreement will be rendered on a quarterly basis..

Thank you for your long-standing support of our collective efforts to better understand the water resources of the San Bernardino Valley.

Sincerely,

**ALISSA COES**  
Digitally signed by ALISSA  
COES  
Date: 2022.08.03 13:43:01  
-07'00'

Alissa Coes  
Acting Director, USGS California WSC

cc: Claudia C. Faunt, Supervisory Hydrologist, Groundwater Availability and Use Program  
Wesley Danskin, Research Hydrologist, Project Chief, Bunker Hill/Lytle Basin (Task 1, 6a)  
Gregory O. Mendez, Hydrologist, Project Chief, Yucaipa Basin (Task 2c,d)  
Geoff Cromwell, Geologist, Project Chief, Yucaipa Basin (Task 2a,b,e, 6b)  
Linda R. Woolfenden, Research Hydrologist, Project Chief, Rialto-Colton Basin (Task 3)  
Brock Huntsman, Fish Biologist, Project Chief Santa Ana River Fish Study (Task 5)



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**DATE:** August 16, 2022  
**TO:** Board of Directors  
**FROM:** Melissa Zoba, Chief Information Officer  
**SUBJECT:** Authorize the Purchase of a Network Firewall and Monitoring/Analytics Application

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### **Staff Recommendation**

Staff recommends the Board authorize the purchase of a new network firewall and analytics application in the amount of \$40,864.

### **Summary**

This item was discussed at the August 9, 2022 Engineering Workshop. Industry standards recommend network firewalls be replaced every 5-8 years, when it is out of manufacturer's support, or when the network environment changes. Additionally, with the increase in District staff working remotely and extensive supply chain delays, staff has recognized the need to accelerate the review and replacement of the network firewall and security mesh. Staff received two (2) quotes for replacement hardware, analytics application, and migration services and recommends the purchase of the Fortinet FortiGate firewall and FortiAnalyzer application.

### **Background**

A firewall is a network security solution that protects the District's business network from unwanted traffic. Firewalls block incoming malware based on a set of pre-programmed rules. These rules can also prevent users within the network from accessing certain sites and programs. Without firewalls, computers and devices on the network are vulnerable to hackers and make for an easy target for attacks. A network firewall is the foundational piece of hardware or building block for a solid cybersecurity defense. Advanced monitoring and analytics software is also a critical part of a secure network architecture to keep up with the latest advanced persistent threats, especially as the digital landscape becomes more complex.

The District's existing primary firewall has been in service for more than seven (7) years and has recently failed. The backup or secondary firewall has been activated while the primary firewall is

being replaced under the extended support contract. The District has also seen an increase in remote workers as a result the COVID-19 pandemic which creates an increased vulnerability to cyber attacks. And finally, supply chain issues have created extensive delays in receiving hardware equipment and, therefore, has accelerated the need to review and assess the replacement of the equipment.

Staff worked with vendors and the District’s network consultants to identify the most modern and flexible technology and determined Fortinet’s FortiGate firewall and FortiAnalyzer provided the optimal solution. A demo of the FortiGate firewall appliance and monitoring application was conducted and a Cyber Threat Assessment was prepared to demonstrate the technology and capabilities. Fortinet’s integrated set of security tools and APIs (application programming interface) combined with centralized management, analytics, and threat intelligence proved to be the most broad, integrated, and automated cybersecurity mesh platform.

Staff requested quotes from various vendors for the Fortinet FortiGate firewall, FortiAnalyzer monitoring and analytics application, and migration support services. Two (2) quotes were received and are summarized in Table 1 below. The total amount for each quote includes the appliance, professional migration services, and 3-years support and maintenance. Staff selected Nth Generation as the preferred vendor for this project.

*Table 1 – Summary of Vendor Quotes for Network Firewall, Software, and Migration*

	Nth Generation	Vendor 2
<b>Total Quote Amount</b>	<b>\$40,864</b>	<b>\$55,242</b>

**Fiscal Impact**

The total amount of the hardware, software, and migration services is \$40,864. Funds for this expenditure are included in the approved 2022-2023 General Fund Budget under Line Item 6580, Dues and Subscriptions.

**Attachments**

- 1) Fortinet Security Fabric Tools illustration





### FortiNAC

Network Access Control



### FortiSIEM

Vendor Neutral, Centralized Visibility of Security, Performance & Availability



### FortiSoar

Security Orchestration, Automation, & Response



### FortiManager

Centralized Management of Devices, Policies, Profiles, and VPN's



### FortiAnalyzer

Log Analysis, Archive & Event Notification



### FortiAuthenticator

User Identity Management, Single Sign-On & FortiToken



### FortiSwitch

Secure Access Switches



### FortiAP

Secure, Scalable Wireless Access



### FortiADC

Application-aware traffic balancing with SSL Offload



### FortiCASB / CWP

Security extended to SAS apps via API Integration



Internet



### FortiGate

Next Gen Firewall, Secure SD-WAN, SSL VPN



Network



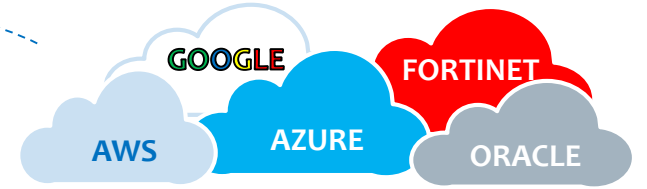
### FortiSandbox

Zero Day Threat Discovery



### FortiGuard Labs

Global Threat Research & Response



Cloud Platforms



### FortiMail

Spam, Spoofing, Virus and Ransomware protection



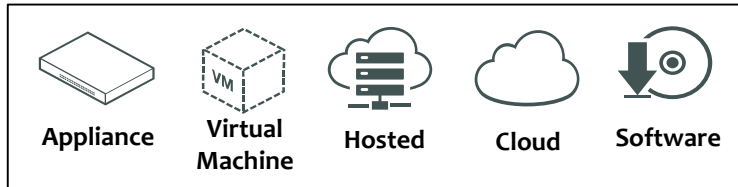
### FortiWeb

WAF with vulnerability shielding and site restoration



### FortiClient / EDR

Advanced Endpoint Protection



### FortiCamera

HD Video Cameras



### FortiPresence

Location Services



### FortiRecorder

Premise monitoring with facial recognition



### FortiFone

IP / SIP Phones





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**DATE:** August 16, 2022  
**TO:** Board of Directors  
**FROM:** Melissa Zoba, Chief Information Officer  
**SUBJECT:** Authorize the Purchase of a Core Switch

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### **Staff Recommendation**

Staff recommends the Board authorize the purchase of a new core switch in the amount of \$79,967 to the next regular meeting of the Board of Directors for consideration.

### **Summary**

This item was discussed at the August 9, 2022 Engineering Workshop. A core switch manages the network traffic demands of the District. The District's existing core switch has been in service over twelve (12) years and no longer meets the growing demands of the District. Staff has received a quote for a new core switch that offers a secure and scalable solution.

### **Background**

A core switch manages the high-speed routing and switching of the District's network assets. It connects multiple devices, such as computers, wireless access points, printers, and servers on the same network within a building. A switch enables connected devices to share information and communicate with each other. Data traffic, voice and video data are all managed through the core switch to ensure quality and speed to network devices.

The District's existing core switch no longer meets the demands of the District and has exceeded the typical lifecycle based on industry standards (8 to 10 years). Staff worked with vendors and the District's network consultants to identify a switch with key features that will allow a secure and scalable solution. Fortinet's FortiSwitch core switch is integrated with the FortiGate firewall and FortiAnalyzer data analytics. This solution is a managed switch that offers greater security, more features, and flexibility to better protect and improve the quality of service for users.

Staff requested quotes from various vendors for the Fortinet FortiSwitch core switch. One (1) quote was received from Nth Generation in the amount of \$79,967.

**Fiscal Impact**

The total amount of the core switch and 3-year maintenance support is \$79,967. Funds for this expenditure are included in the approved 2022-2023 General Fund Budget under Line Item 6250, Office Equipment.

**Attachments**

- 1) Nth Generation core switch quote



Account Manager: Alex Jimenez	Email: alex.jimenez@nth.com
Inside Sales: Annie Ujiki	Email: annie.ujiki@nth.com
Email Orders To: orders@nth.com	Phone: 949-752-4420x

Project #: 112371      Quote Date: 06/23/2022      Quote Expires: 07/23/2022      Quote #: 151482

**Quoted to:**

Melissa Zoba  
 San Bernardino Valley Water District  
 380 East Vanderbilt Way  
 San Bernardino, CA 92408

**Ship to:**

**Fortinet Core Switch - Option 1**

PART #	QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
<b>Hardware</b>				
FS-1024E	2	Fortinet FortiSwitch 1024D Layer 2/3 switch controller compatible switch with 24 x GE/10GE SFP/SFP+ slots and 2 x 100GE QSFP28. Dual AC power supplies	\$14,007.00	\$28,014.00
FS-448E-POE	4	Layer 2/3 FortiGate switch controller compatible PoE +switch with 48 x GE RJ45 ports, 4 x 10 GE SFP+, with automatic Max 421W POE output limit	\$4,083.00	\$16,332.00
SP-CABLE-FS-SFP1	19	10GE SFP+ Passive Direct Attach Cable	\$86.00	\$1,634.00
FS-M426E-FPOE	2	FortiSwitch-M426E-FPOE	\$3,850.00	\$7,700.00
FN-TRAN-QSFP28-SR	2	100GE QSFP28 transceivers	\$3,567.00	\$7,134.00
FMTFFFOM4-01M	2	OM4 Fiber Cable MTP(F) - MTP(F) 1M Method B	\$192.00	\$384.00
				<b>\$61,198.00</b>
<b>Support</b>				
FC-10-S1E24-247-02-36	2	FortiSwitch-1024E 3 Year 24x7 FortiCare Contract	\$3,450.00	\$6,900.00
FC-10-S448P-247-02-36	4	FortiSwitch-448E-POE 3 Year 24x7 FortiCare Contract	\$1,004.00	\$4,016.00
FC-10-M426E-247-02-36	2	FortiSwitch-M426E-FPOE 24x7 FortiCare Contract	\$947.00	\$1,894.00
				<b>\$12,810.00</b>



Account Manager: Alex Jimenez	Email: alex.jimenez@nth.com
Inside Sales: Annie Ujiki	Email: annie.ujiki@nth.com
Email Orders To: orders@nth.com	Phone: 949-752-4420x

Project #: 112371      Quote Date: 06/23/2022      Quote Expires: 07/23/2022      Quote #: 151482

**Quoted to:**

Melissa Zoba  
 San Bernardino Valley Water District  
 380 East Vanderbilt Way  
 San Bernardino, CA 92408

**Ship to:**

**Fortinet Core Switch - Option 1**

PART #	QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
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<b>Quote Subtotal</b>	<b>\$74,008.00</b>
<b>Tax Rate 8.75%</b>	<b>\$5,958.58</b>
<b>Est. Shipping *</b>	
<b>Payment Terms</b>	<b>UNDER REVIEW</b>
<b>TOTAL DUE</b>	<b>\$79,966.58</b>

\* Thank you for allowing Nth Generation to provide you with the above quotation. Charges for Shipping and insurance will be additional. If you require an estimated shipping cost prior to issuing a purchase order, please contact your sales or inside sales rep. This quotation is the sole property of Nth Generation Computing, Inc. and is intended as an offer to sell goods and services to the client named in this quote. This document may not be reproduced, or provided to parties outside this organization, without written consent of Nth Generation Computing, Inc.



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**DATE:** August 16, 2022

**TO:** Board of Directors

**FROM:** David McArthur, Operations Manager  
Wen Huang, Deputy General Manager/Chief Engineer

**SUBJECT:** Consider Replacement of Two Air Conditioning Units at Greenspot and Crafton Hills Pump Stations

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### **Staff Recommendation**

Staff recommends the Board of Directors authorizing the purchase and replacement of two air conditioning (AC) units, one at Crafton Hills Pump Station (CHPS) and one at Greenspot Pump Station (GSPS), in the amount of \$81,407.

### **Summary**

This item was discussed at the Board of Director's Engineering Workshop on August 9, 2022 and is being forwarded to the full Board for consideration. During a recent quarterly maintenance and inspection, one (1) air conditioning unit at CHPS and one (1) at GSPS were found to have reached their service life and require replacement. The estimated cost to replace both units is \$81,407, of which \$25,579 will be shared by San Gorgonio Pass Water Agency (SGPWA).

### **Background**

The Crafton Hills Pump Station (CHPS), completed in 2002, located off Highway-38 in the unincorporated area of the County of San Bernardino, is a critical part of the East Branch Extension (EBX) system that facilitates conveying water to Yucaipa Valley Water District and SGPWA. On the other hand, the Greenspot Pump Station (GSPS), also completed in around 2002, is located off Greenspot Road in the City of Highland. Operation of the GSPS is essential to the District's overall conveyance system for delivery to the East Highland areas and also serves a backup to the EBX when the Citrus Pump Station is taken out of service. Through the Joint Facilities Agreement with the California Department of Water Resources (DWR) and SGPWA, Valley District is responsible for general maintenance of the two Pump Stations, including the air conditioning systems.

During a recent quarterly maintenance and inspection performed by Ontario Refrigeration, one (1) of the eleven (11) air conditioning units at CHPS and one (1) of the eight (8) units at GSPS were found to have reached their service life and require replacement. Both were original units and have been operating since 2002. The current lead time for the replacement units is approximately 28 weeks from authorization. The estimated cost to replace the unit at the CHPS is \$42,572, of which 39.23% or \$16,701 will be shared by SGPWA. Additionally, the estimated for replacing the unit at the GSPS is \$38,835, of which 22.86% or \$8,878 will be shared by SGPWA.

### **Fiscal Impact**

The estimated cost for the scope of services is up to \$81,407, which was included in Line Item 6470 Maintenance and Repairs of the approved FY 22-23 General Fund Budget. Of the total estimated cost of \$81,407, \$25,579 will be shared by SGPWA based on their respective capacity rights of the system.

### **Attachment**

Quotes for Replacement of two 2 AC units by Ontario Refrigeration



# Ontario Refrigeration

(909) 984-2771

## PROJECT AGREEMENT FOR BUILDING ENVIRONMENTAL SYSTEMS

Proposal Date	Proposal Number	Page
July 14, 2022	ON232098	1 of 2

**AGREEMENT BETWEEN:**

San Bernardino Valley Municipal  
Water District  
380 E. Vanderbilt Way  
San Bernardino, CA 92408

AND

**Ontario Refrigeration Service, Inc.**  
635 South Mountain Avenue  
Ontario, CA 91762

hereinafter CUSTOMER

hereinafter Ontario Refrigeration

SERVICES WILL BE PROVIDED AT THE FOLLOWING LOCATION(S):

Crafton Hills Pump Station  
2969 Mill Creek Road, Mentone, CA

ONTARIO REFRIGERATION WILL PROVIDE THE FOLLOWING TO CUSTOMER:  
Equipment labor and supervision to remove AC-E2 (1) one existing Trane 15-ton air conditioning unit and replace with (1) one new Trane nominal 15-ton roof top air conditioning unit at the at the above listed location.

To include the following:

- Provide (1) one new Trane nominal 15-Ton packaged unit with economizer.
- Provide crane service, rigging and trucking of new equipment.
- Provide trucking to remove and properly dispose of the existing equipment per EPA guidelines.
- Secure power and lock/tag out of service.
- Disconnect unit from existing supply and return ductwork outside building.
- Disconnect unit from high voltage, low voltage and drain line and remove from frame rail.

As a condition of performance, payments are to be made on a progress basis. Invoice payment must be made within ten (10) days of receipt. Any alteration or deviation from the above proposal involving extra cost or material or labor will become an extra charge over the sum stated above. This proposal will become a binding Agreement only after acceptance by Customer and approval by the President of Ontario Refrigeration as evidence by their signatures below. This Agreement sets forth all of the terms and conditions binding upon the parties hereto on the reverse hereof; and no person has authority to make any claim, representation, promise or condition on behalf of Ontario Refrigeration which is not expressed herein. Proposal valid for 45 days from original proposal date.

**CUSTOMER**

\_\_\_\_\_  
Signature (Authorized Representative)

\_\_\_\_\_  
Name (Print/Type)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

**Ontario Refrigeration**

  
\_\_\_\_\_  
Signature (Sales Representative) Tim Lusardi

**Approved by Contractor:**

\_\_\_\_\_  
Signature Phil Talleur

\_\_\_\_\_  
President  
Title

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Date

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## SUPPLEMENT TO PROJECT AGREEMENT PAGE 1

<b>PROJECT AGREEMENT FOR BUILDING ENVIRONMENTAL SYSTEMS</b>
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Proposal Date	Proposal Number	Page
July 14, 2022	ON232098	2 of 2

CONTRACTOR WILL PROVIDE THE FOLLOWING TO CUSTOMER (continued):

- Clean & prep the existing frame rail, set new unit in place and secure with seismic restraints.
- Reconnect existing ductwork to new unit and seal to make weather tight.
- Provide new electrical service disconnect switch, conduit and wire to connect new unit to existing circuit.
- Provide pipe and fittings to connect condensate drain to existing conditions.
- Reconnect existing low voltage wiring from existing thermostats.
- Apply power to equipment and check for proper rotation/operation.
- Start unit and place back in service.
- One year warranty on parts and labor, 2nd through 5th year warranty on compressor, parts only.

The total price to complete all work listed \$42,572.00

**\*\*Vendors current lead time on equipment is 28 weeks from date of order + shipping.\*\***

Excludes: Engineering, plans, plan check fees, permits, after hours labor, detailed shop drawings, smoke detectors, fire/life safety work, duct leakage testing/HERS testing, view screening, steel support structure or roof structure upgrades, additional work to meet current codes (if required), any other work not listed above.

#### Equipment Description

15 Ton  
 DX Cooling / Electric  
 Standard Efficiency  
 R-410A  
 460/60/3  
 Symbio 700  
 Single Zone with Standard Motor  
 Horizontal Conversion Panel  
 Low Leak Economizer, Dry Bulb, Horizontal  
 Standard ship cycle - Clarksville



# Ontario Refrigeration

(909) 984-2771

## PROJECT AGREEMENT FOR BUILDING ENVIRONMENTAL SYSTEMS

Proposal Date	Proposal Number	Page
July 14, 2022	ON232099	1 of 2

### AGREEMENT BETWEEN:

San Bernardino Valley Municipal  
Water District  
380 E. Vanderbilt Way  
San Bernardino, CA 92408

hereinafter CUSTOMER

AND

**Ontario Refrigeration Service, Inc.**  
635 South Mountain Avenue  
Ontario, CA 91762

hereinafter Ontario Refrigeration

### SERVICES WILL BE PROVIDED AT THE FOLLOWING LOCATION(S):

Greenspot Pump Station  
32052 Old Greenspot Road, Mentone, CA

### ONTARIO REFRIGERATION WILL PROVIDE THE FOLLOWING TO CUSTOMER:

Equipment labor and supervision to remove AC-M2 (1) one existing Trane 15-ton air conditioning unit and replace with (1) one new Trane nominal 15-ton roof top air conditioning unit at the at the above listed location.

### To include the following:

- Provide (1) one new Trane nominal 15-Ton packaged unit.
- Provide crane service, rigging and trucking of new equipment.
- Provide trucking to remove and properly dispose of the existing equipment per EPA guidelines.
- Secure power and lock/tag out of service.
- Disconnect unit from existing supply and return ductwork outside building.
- Disconnect unit from high voltage, low voltage and drain line and remove from frame rail.

As a condition of performance, payments are to be made on a progress basis. Invoice payment must be made within ten (10) days of receipt. Any alteration or deviation from the above proposal involving extra cost or material or labor will become an extra charge over the sum stated above. This proposal will become a binding Agreement only after acceptance by Customer and approval by the President of Ontario Refrigeration as evidence by their signatures below. This Agreement sets forth all of the terms and conditions binding upon the parties hereto on the reverse hereof; and no person has authority to make any claim, representation, promise or condition on behalf of Ontario Refrigeration which is not expressed herein. Proposal valid for 45 days from original proposal date.

### CUSTOMER

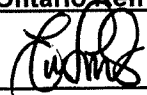
Signature (Authorized Representative)

Name (Print/Type)

Title

Date

### Ontario Refrigeration

  
Signature (Sales Representative) Tim Lusardi

### Approved by Contractor:

Signature Phil Talleur

President

Title

Date

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## SUPPLEMENT TO PROJECT AGREEMENT PAGE 1

<b>PROJECT AGREEMENT FOR BUILDING ENVIRONMENTAL SYSTEMS</b>
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Proposal Date	Proposal Number	Page
July 14, 2022	ON232099	2 of 2

CONTRACTOR WILL PROVIDE THE FOLLOWING TO CUSTOMER (continued):

- Clean & prep the existing frame rail, set new unit in place and secure with seismic restraints.
- Reconnect existing ductwork to new unit and seal to make weather tight.
- Provide new electrical service disconnect switch, conduit and wire to connect new unit to existing circuit.
- Provide pipe and fittings to connect condensate drain to existing conditions.
- Reconnect existing low voltage wiring from existing thermostats.
- Apply power to equipment and check for proper rotation/operation.
- Start unit and place back in service.
- One year warranty on parts and labor, 2nd through 5th year warranty on compressor, parts only.

The total price to complete all work listed \$38,835.00

**\*\*Vendors current lead time on equipment is 28 weeks from date of order + shipping.\*\***

Excludes: Engineering, plans, plan check fees, permits, after hours labor, detailed shop drawings, smoke detectors, fire/life safety work, duct leakage testing/HERS testing, view screening, steel support structure or roof structure upgrades, additional work to meet current codes (if required), any other work not listed above.

#### Equipment Description

15 Ton  
 DX Cooling / Electric  
 Standard Efficiency  
 R-410A  
 460/60/3  
 Symbio 700  
 Single Zone with Standard Motor  
 Horizontal Conversion Panel  
 Standard ship cycle - Clarksville



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**DATE:** August 16, 2022  
**TO:** Board of Directors  
**FROM:** Heather Dyer, Chief Executive Officer/General Manager  
**SUBJECT:** CEO/General Manager's Report

---

The following is an update from the Chief Executive Officer/General Manager on the status of several items at the District.

**I. WaterSMART Grant for Anza Creek Project**

The District received notice that we are the recipient of a U.S. Bureau of Reclamation WaterSMART Grant for the Anza Creek Aquatic and Riparian Habitat Restoration Project. The District will receive \$2 million toward the project, expected to be awarded this Fall. The Anza Creek Aquatic and Riparian Habitat Restoration Project is the first habitat restoration project to be implemented in the framework of the Upper Santa Ana River Habitat Conservation Plan. The Project will take place within the Upper Santa Ana River Watershed, in approximately 144 acres surrounding Anza Creek. The Project consists of the creation and restoration of habitat for benefit of the threatened Santa Ana sucker in Anza Creek, a tributary to the Santa Ana River. Work will include constructing 1,107 linear feet of new stream channel, enhancing 2,322 linear feet of the existing Anza Creek with gravel and habitat structures, creating 1.1 acres of new floodplain bench, non-native plant removal, and site revegetation.

**II. Update on the Integrated Regional Urban Water Management Plan**

On July 13, 2022, the District received a letter from the Department of Water Resources that our 2020 Integrated Regional Urban Water Management Plan (IRUWMP) has been reviewed and accepted by the Department. The letter stated that the IRUWMP has addressed the requirements for the California Water Code.

The 2020 IRUWMP was completed with ten retail agencies in the Valley District service area including the Urban Water Management Plans (UWMP) and Water Shortage Contingency Plans. (The UWMP is completed every five years.) The IRUWMP combines the current and projected water supply conditions and demands and the BTAC goals and objectives for the upper watershed groundwater basins for the next 25 years. This

document is vital for Valley District and our retailers as it provides proof that we have enough supply to meet our demands through 2045.

### III. Journal Article

I am pleased to report that Chris Jones, Kai Palenscar, and I, along with six of our colleagues, were co-authors on an article recently published in the Canadian Journal of Fisheries and Aquatic Sciences. The article is titled **Joint-species analysis reveals potential displacement of native fishes by non-native fishes within the Santa Ana River, California**. Lead author of the article is Brock M. Huntsman, of the United States Geological Survey (USGS). Other contributors include Kerwin Russell and Brett Mills of the Riverside-Corona Resource Conservation District (RCRCD), Marissa L. Wulff of the USGS and the late USGS scientists, Larry Brown and Jason May, who began the Santa Ana sucker and native fishes research on the Santa Ana River in 2015, on behalf of Valley District and the Upper Santa Ana River Habitat Conservation Plan. This work is the product of many years of data collection and analysis and contributes greatly to better understanding the ecological conditions and challenges associated with our river system.

***Article Abstract:** Accurate estimates of abundance are a cornerstone for resource managers to make effective decisions for fish conservation. However, multiple sampling methods often are required to sample fish communities and ignoring the detection process can create substantial bias in latent state parameter estimation (e.g., abundance, survival). We developed a joint-species N-mixture model that integrated snorkel, seining, and electrofishing surveys to estimate factors affecting native and non-native fish distributions in the Santa Ana River, California. We found through data integration that native Santa Ana sucker (*Catostomus santaanae*) and arroyo chub (*Gila orcuttii*) were most abundant in wide stream channels, and the abundance of both native fishes were negatively correlated with non-native largemouth bass (*Micropterus salmoides*). Our results highlight the power of integrating multiple data sets into a single analysis and incorporating among-species correlation into abundance modeling. Our results also highlight a pattern of native fish declines that coincides with an expanding largemouth bass population, a concern for the management of native aquatic communities within the Santa Ana River.*

### IV. Inland Empire Landscape Contest

Every two years, the District participates in the Inland Empire Landscape Contest with surrounding water agencies. This year, we increased our marketing through social media, and we had an increase in participants in our service area, resulting in three winners selected from the Valley District service area. Two of the winning landscapes were in Highland and one was in Redlands. The Redlands landscape was in the Mediterranean/California native style, and the two Highland winners were in the desert/succulent style. One of the Highland landscapes was a People's Choice Semifinalist. Staff plans to bring a presentation on this item, including photos of the landscapes, to a future Board Workshop.

**V. AB 1020**

Through the State Water Contractors (SWC), the District is watching Senate Bill 1020. SB 1020 would accelerate the goal to achieve 100% renewable energy for the State Water Project (SWP) from 2045 to 2030. The Department of Water Resources is unsure about the viability of achieving the new deadline and estimates it will increase SWP costs by \$2.6 billion. Along with the accelerated targets, the State Water Contractors have expressed concerns over the cost of such a program, the restrictions on renewables that qualify towards the 100% goal, and its impact on the affordability of water. Water supply from the SWP supports the Bay Area, San Joaquin Valley, Central Coast, and Southern California. Energy-related costs are the fastest growing costs for the SWP, and these costs are passed on to water ratepayers throughout the State.

Today, approximately 70 percent of the SWP energy base load is achieved through renewable/zero-carbon resources, including 50 percent from self-generation and 20 percent from contracted renewable energy, making it one of the cleanest energy portfolios in the state for a utility its size. The State Water Contractors fully support the achievement of the 100 percent renewables and zero-carbon resources goal for the SWP in a manner that is sensitive to water affordability for millions of California water customers. The bill does not currently provide any cost offset or opportunities to mitigate the more than \$2.6 billion in estimated new costs on water customers of state water contracting agencies.

The Contractors have been working with the bill's authors on several key proposed changes. However, the SWC are considering formally opposing the bill unless amended.

**VI. Federal Legislative Updates**

The Senate reached an agreement for consideration of their version of the Water Resources Development Act (WRDA) as a substitute amendment to the House-passed version of the legislation. The legislation now goes back to the House where Congress is expected to conference before the end of the calendar year. Both the House and Senate bills have advanced with broad bipartisan support.

At the end of July, the Senate Appropriations Committee released twelve FY23 draft Appropriations bills. There continues to be disagreement over topline spending and allocations, though, specifically related to allocations to defense and non-defense spending. A few of the Senate's recommended funding levels are:

Program	Current Year Enacted (FY22)	Requested by the President (FY23)	Provided in the House Bill (FY23)	<i>Provided in the Senate Bill (FY23)</i>
WaterSMART Grants	\$45.5 million	\$13.96 million	\$75 million	<b><i>\$55 million</i></b>
Cooperative Watershed Management	\$2.22 million	\$2.25 million	\$2.25 million	<b><i>\$5 million</i></b>
Drought Response & Comprehensive Drought Plans	\$20 million	\$24.00 million	\$30 million	<b><i>\$24.00 million</i></b>
Title XVI Water Reclamation and Reuse	\$53.19 million	\$4.00 million	\$63.61 million	<b><i>\$55 million</i></b>
WIIN 4007 Water Storage Program	\$117.25 million		\$134 million	<b><i>\$134 million</i></b>

On August 7, the Senate passed the Inflation Reduction Act of 2022, the Democrats newest version of reconciliation legislation. Among other provisions, the legislation will allow for around \$374 billion in climate and energy spending.

## **VII. Solve the Water Crisis Coalition**

The District is part of a coalition of water agencies throughout the State who are working to educate policymakers on the critical status of our current water supply system and urgency that should be taken to ensure a reliable water future. The Coalition specifically aims to make water a top State agenda and budget priority. This will be accomplished by elevating long-term water supply as a major risk to our state economy and way of life for all Californians (Attachment 1). Through a group of about thirty General Managers from around the state, the coalition is first implementing an education program targeting California decision makers to demonstrate the need for a comprehensive, state-wide, water vision along with specific long-term solutions to address the uncertainties associated with climate change. The key message is that no one solution, project, or tactic will provide a resilient water future for our state. Rather, we require a multi-faceted, integrated, and coordinated statewide effort to develop a reliable system for the future; tapping into all different types of water resources within our potential portfolio to ensure that all sectors of our economy and all our communities have reliable water supply.

The Coalition was established in early 2022 by Western Municipal Water District. The Coalition includes water districts in Southern, Central and Northern California, including Turlock Irrigation District, Municipal Water District of Orange County, San Bernardino Municipal Water Department, East Valley Water District, Irvine Ranch Water District, and San Juan Water, among others. Coalition members have written a number of opinion pieces highlighting water supply impacts on our economy and other state priorities (Attachment 2) and met with Editorial Boards for newspapers in San Diego and Sacramento. The Coalition also had a presence at the spring ACWA Conference and was able to generate interest on what it aims to accomplish. Various members are also making presentations to agencies, cities, and key stakeholders to focus attention beyond the current drought to the much larger issue of water supply reliability and climate resilience for our state.

## **VIII. Utility of the Future**

The District is the recipient of the Water Environment Federation Technical Exhibition and Conference (WEFTEC) "Utility of the Future" Recognition Program for 2022. This program recognizes water utilities engaged in developing and growing their organizational culture and supporting advancement in a specific water/ environment activity area. It is worth noting that organizational culture is the backbone of receiving this recognition. Being recognized is a testament to the commitment of the Board and work the District is doing to develop a strong culture of growth, opportunities, and leadership. The District will be recognized at the 2022 WEFTEC Conference in October.

## **IX. Human Resources**

On July 18, Benjamin Williams began with the District as a Water Systems Operator I. Benjamin will support the Operations team in their diverse range of duties, doing daily rounds, underground service alerts, vault inspection and maintenance, weed

abatement, and AirVac inspection. One of the things that stood out about Benjamin was his experience and training in confined space rescue. Benjamin formerly worked at Elsinore Valley Water District.

Our Human Resources/Risk Manager Karen Resendez was recently elected President-Elect for FY 22/23 to the Inland Empire Chapter of the International Public Management Association for Human Resources (IEPMA-HR). IEPMA-HR is a professional organization of local government Human Resources Directors, Managers, and professionals with a goal of providing opportunities to expand member knowledge of human resources and professional networks. The IEPMA-HR Chapter encompasses members from Riverside and San Bernardino Counties, the Pomona Valley, and Palm Springs and surrounding areas.

The District is the recipient of a Wellness Grant from ACWA JPIA for just over \$1,000. The District will use the Grant to develop an employee wellness competition. While staff is still working on the details, we anticipate participating in an employee team-building event to encourage camaraderie and health among our employees.

### **Staff Recommendation**

Receive and file.

### **Attachments**

- 1) Solve the Water Crisis Coalition Information
- 2) Solve the Water Crisis Opinion Piece by Paul Helliker and Craig Miller – OC Register



# SOLVE THE WATER CRISIS

## ACT NOW TO SECURE CALIFORNIA'S FUTURE.

### CLIMATE CHANGE IS NOW



Unpredictable weather. Multi-year drought. Dwindling snowpack. Vanishing runoff. Intense atmospheric rivers. Increased flood risks. Extreme heat and catastrophic wildfires. Conditions Californians know all-too-well. What California policymakers and their constituents do not know well is that California is in the middle of a severe water supply crisis. This existential threat to California's future economic stability, security, and growth, as well as its environmental legacy, has been exacerbated by insufficient State investment in infrastructure and regulatory logjams resulting in the acceleration of reduced water supply reliability. The trajectory of this crisis must be reversed. California's future hangs in the balance.

Solve the Water Crisis Coalition, through a critically needed education effort, will bring into sharp focus the ongoing water supply crisis that is already impacting residents' quality of life, economic growth, community health, and the environment, as well as risking California's future. By raising awareness among California policymakers and thought leaders, Solve the Water Crisis Coalition will demonstrate the enormous water supply crisis and the urgency that requires bold and immediate State action to secure California's future.

### OUR MISSION



### SOLVE THE WATER CRISIS COALITION WILL

1

Elevate water as a crisis that is already here; educate leaders that this crisis must be addressed immediately to protect California's future.

2

Prioritize California legislators, regulators, and the Newsom Administration as our key audience.

3

Critically demonstrate to key audiences the need for comprehensive, long-term investments, improved science, and regulatory reforms to increase water supply and supply reliability for California.





## **SOLVE THE WATER CRISIS**

**ACT NOW TO SECURE CALIFORNIA'S FUTURE.**

### **What does zero percent allocation mean for our future?**

- No water for agriculture – threatening our nation’s food security
- No outdoor irrigation
- Disadvantaged communities will suffer
- Catastrophic economic impacts statewide
- Depletion of groundwater basins
- Ecosystems and wildlife strained
- Increased water costs

In December 2021, after only two years of extreme drought, the California Department of Water Resources issued its first-ever zero percent allocation on the State Water Project, which meant that communities from the Bay Area to San Diego would receive only “health and safety” water. And for the second year in a row, Central Valley Project (CVP) allocations have been at zero percent, significantly impacting agriculture and further exacerbating the current water supply crisis statewide.

**MAKE POLICYMAKERS AWARE OF THE CRISIS.**



**ENCOURAGE A DISCUSSION AROUND SOLUTIONS.**



**CREATE THE ENVIRONMENT FOR SUCCESS.**



## **SOLUTIONS**

Solve the Water Crisis Coalition will focus on developing and elevating public awareness and support for solutions, urging the Governor, Legislature, and State Agencies to act now to address the water crisis by enhancing and rehabilitating statewide water solutions that will meet present and future needs of the state and its more than 40 million residents.

**FOR MORE INFORMATION  
VISIT [WWW.SOLVETHEWATERCRISIS.COM](http://WWW.SOLVETHEWATERCRISIS.COM)**



## California's water supply goes beyond the current drought



A sign warns about lower water levels near the entrance to Castaic Lake. The Metropolitan Water District of Southern California hosted a media availability on Wednesday, April 27, 2022, after imposing restrictions that will limit outdoor watering to one day per week for roughly 6 million people. (Photo by Dean Musgrove, Los Angeles Daily News/SCNG)

By **CRAIG MILLER** and **PAUL HELLIKER** |

PUBLISHED: June 18, 2022 at 7:00 a.m. | UPDATED: June 18, 2022 at 7:00 a.m.

After being repeatedly told to conserve, most Californians realize we have been in a drought for several years and that water supplies are running dangerously low as summer approaches.

What most Californians do not realize is that we are now in a full-fledged water supply crisis, and almost every aspect of daily lives, community health, and our state's economy will continue to be impacted by the inadequacy of California's water system, policies, and insufficient supply.

With worsening and changing hydrologic conditions, California's existing water system is failing to meet the needs of our state. The current water supply crisis is exacerbated by the changing climate, a doubling of the state's population, increased environmental and regulatory constraints, and reliance on the same basic water infrastructure that has been in place since 1968.

The responsibility to address the water crisis and invest in securing an adequate and reliable water supply for California starts with the governor and Legislature. That responsibility begins by recognizing that we are in a generational water crisis. The state needs to develop a comprehensive plan to meet the current needs of 40 million Californians and allow water professionals to implement solutions for the



Economic impacts. If California were a country, we would be the 5th largest economy in the world. The governor's emergency declaration and water restrictions will have long lasting economic impacts to the state. Areas of the state are already in mandatory water restrictions for outdoor irrigation and will likely be required to implement restrictions on commercial and industrial use. How many beverage bottlers, high-tech manufacturers, and food processing facilities are going to leave the state because of an uncertain water supply?

Food inadequacy. An analysis from Yale University calls California "America's garden," noting that the state produces two-thirds of all fruits and nuts grown in the U.S., and nearly all of the almonds, artichokes, avocados, broccoli, carrots, celery, kiwi, figs, garlic, grapes, raisins, raspberries, strawberries, honeydew melons, nectarines, olives, pistachios, plums, tangerines, mandarins, and walnuts grown in the nation. Because of the failure to secure adequate water for farming, cutbacks in food production are already occurring and will get progressively worse.

Energy goals jeopardized. California is a leader in the development of clean energy and zero-emission power, a significant part of achieving the state's ambitious energy goals depends on hydropower. In 2021, the Massachusetts Institute of Technology reported on the consequence of the failed water system on the state's hydropower: "Electricity generation from California hydropower plants was down 48% from the 10-year average, according to new data from the Energy Information Agency. And 2022 is looking even worse ... As a low-carbon source of power, it's essential in limiting emissions of carbon dioxide, especially because when a hydropower plant goes down, fossil fuels are usually used to make up the shortfall."

Increased threat from wildfires. The last decade has also shown that California communities face life-threatening risks from wildfire exposure in water-challenged regions. According to the National Oceanic and Atmospheric Administration, "(F)uels for wildfire, such as grasses and trees, can dry out and become more flammable. Drought can also increase the probability of ignition and the rate at which fire spreads."

Affordable housing goals impacted. The failure of the existing water system could also negate recent progress to address housing shortages and homelessness.

According to Richard Frank, director of the California Environmental Law & Policy Center at University of California, Davis, "The housing and water conflict piles one major policy crisis on top of another." By law, water agencies must approve water supply assessments for new housing as part of the development process. Water agencies must have a reliable and predictable future water supply to make these findings. The water crisis will affect the ability of builders to construct the housing that is vital to affordable housing challenges.

Rationing water. "Mini-rationing" has sadly already been instituted throughout California pursuant to Governor Newsom's most recent Executive Order, resulting in stringent limits on homeowners' summertime water use, including in some areas unprecedented prohibitions of outdoor watering. Is rationing the quality-of-life California wants for its future?

This crisis requires an all-hands-on-deck approach, and we need big investments in tools for our toolbox – groundwater recharge, water recycling, floodplain restoration, storage, conveyance improvements, water efficiency, and atmospheric rivers research – to ensure both human and environmental water demands can be met as the climate continues to change. But the state also needs a new strategy to invest in adapting water systems to the new hydrologic realities and increase water supply capabilities.

We need to expand California's infrastructure to store surplus water when it is available, while reducing increasing flood risks, and deploy it for human uses when drought conditions exist.

California policymakers cannot continue to treat the water crisis as a temporary situation that can be "managed" primarily by imposing water conservation restrictions. If our leaders do not implement large-scale, long-term solutions to improve our water systems, the water crisis will continue to impact all Californians now and threaten the very future of our state.

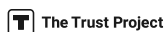
*Craig Miller is the General Manager at Western Municipal Water District, serving Riverside County and Paul Helliker is the General Manager at San Juan Water District, serving customers in eastern Sacramento and southern Placer counties. Both are both leaders in Solve the Water Crisis. To learn more about the severity of the crisis visit [www.solvethewatercrisis.com](http://www.solvethewatercrisis.com)*

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**DATE:** August 16, 2022  
**TO:** Board of Directors  
**FROM:** Bob Tincher, Chief Water Resources Officer/Deputy General Manager  
**SUBJECT:** State Water Project Report

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**Staff Recommendation**

Receive and file.

**Summary**

This month, the topics that staff would like to highlight for the Board are:

1. State Water Project
  - a. The Environmental Impact Report for the Delta Conveyance Project was released on July 27, 2022. The comment period ends October 27, 2022. If the Delta Conveyance Project was available at the end of last year, an additional 236,000 acre-feet of water could have been delivered by the State Water Project which is equivalent to adding about 6% to the 2022 allocation.
  - b. The Basin Technical Advisory Committee affirmed their support for the Delta Conveyance Project at their August 1, 2022 meeting.
  - c. To date, about 54,000 AF of Health and Safety Deliveries have been made by the State Water Project. The estimated total amount of Health & Safety Deliveries for this year rose by about 4,000AF to a total of 176,139 AF.

2. Sites Reservoir

- a. The Sites Reservoir Project is on track. The most recent status report is attached for your information.

**Attachments**

- SWC Statement: State Water Contractors Applaud Release of Draft Environmental Impact Report for the Delta Conveyance Project
- Sites Reservoir Monthly Status Report – June 2022





**For Immediate Release:**

July 27, 2022

**Contact:**

Katie Lee

(916) 541-9522

[klee@fionahuttonassoc.com](mailto:klee@fionahuttonassoc.com)

## **State Water Contractors Applaud Release of Draft Environmental Impact Report for the Delta Conveyance Project**

*California Department of Water Resources Advances Key Climate Adaptation Strategy and Critical Infrastructure Upgrade for State Water Project*

**Sacramento, CA** – Today, the California Department of Water Resources (DWR) released a [Draft Environmental Impact Report](#) (Draft EIR) for the Delta Conveyance project – a single-tunnel proposal to modernize the existing State Water Project (SWP) infrastructure in the Sacramento-San Joaquin Delta and a crucial part of the state’s [Water Resilience Portfolio](#). The proposed Delta Conveyance Project is a key climate adaptation strategy that would ensure the SWP can capture, move and store water when it is available for the 27 million Californians and 750,000 acres of farmland that depend on it.

“We commend DWR for advancing the Delta Conveyance Project with the release of the Draft EIR. This project is critical to ensuring Californians have access to high-quality, affordable and reliable water supplies amidst the growing impacts of climate change. The Draft EIR clearly shows that the project has been downsized, refined and redesigned to avoid and reduce local impacts and address environmental concerns.

The State Water Contractors have built and strengthened local and regional projects to diversify and expand water supplies to serve their customers – efforts that rely on or complement SWP supplies. We need to make investments in resilient, updated water infrastructure in the Delta to respond to climate change and support local water supply projects. These investments are urgent, and the Delta Conveyance Project is the right project at the right time to modernize the SWP’s Delta infrastructure so that it can continue to provide the foundational source of water local agencies need to secure their water future.

We look forward to the public review process and moving this critical project forward.”

**Jennifer Pierre**  
**General Manager**  
**State Water Contractors**

###

*The State Water Contractors is a statewide, non-profit association of 27 public agencies from Northern, Central and Southern California that purchase water under contract from the California State Water Project. Collectively the State Water Contractors deliver water to more than 27 million residents throughout the state and more than 750,000 acres of agricultural land. For more information on the State Water Contractors, please visit [www.swc.org](http://www.swc.org).*

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## Sites Reservoir Project Monthly Status Report

Report Period: **June 2022**

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### Monthly Status Summary:

The development of the Sites Project continues to make progress in the critical areas including the following activities:

#### Engineering:

- Began processing mapping/surveying data.
- Ongoing coordination and planning efforts for design level geotechnical investigations.
- Continue engagement and development of the Contract Strategy.
- Continued coordination with the California Department of Water Resources Division of Safety of Dams.
- Ongoing support of responses to RDEIR/SDEIS comments.

#### Coordination with Reclamation:

- Ongoing coordination on the preparation of the Final EIR/EIS and responses to comments.
- Ongoing discussions on modeling, operations, and overall process for the Biological Assessment and Section 7 consultation.
- Planned several meetings with Reclamation on the various agreements required for Project construction and operations.

#### Environmental Planning and Permitting:

- Ongoing preparation of responses to comments on the RDEIR/SDEIS.
- Preparation of the administrative Final EIR/EIS based on updated modeling results.
- Continued discussions with Tribes under AB52.
- Ongoing support to geotechnical investigations, including the preparation of a Final EA/IS, Mitigated Negative Declaration and Mitigation and Monitoring Reporting Program.
- Prepared Short-term Take Eagle Permit for 2023-2026 Geotechnical activities.
- Submitted draft Biological Assessment to Reclamation, legal and Integration for review and comment.
- Submitted preliminary draft of the 404 and 401 permit packages to U.S. Army Corps of Engineers and Regional Water Quality Control Board.



- Coordinated and led tour of the Project “public” areas with CDFW technical staff.
- Ongoing work in preparation for the next phase of the water right process.
- Coordinate conceptual schedule for tasks required to clear parcels for construction.
- Ongoing coordination with Reclamation management on approach and process for Section 7 analysis.

**Operations:**

- Completed all BA appendices.
- Completed most of the modeling effort for the Final EIR/EIS.
- Continued to support the EIR/EIS team in response to comments.
- Had discussions with DWR on development of the Prop 1 Benefit Agreement for flood reduction and recreation.
- Coordinated with DWR and CDFW on the overall process and structure of the Prop 1 Benefit Agreements.

**Stakeholder Engagement, Public Outreach & Real Estate:**

- Conducted site tours for DC Reclamation Deputy Commissioner Mike Brain and Deputy Assistant Secretary Gary Gold.
- Conducted site tour with Grace Espindola and a group of the operating engineers.
- Prepare responses to media inquiries.

**Program Management & Administration:**

- Facilitated Two-Way Financing Check-in with Participants.
- Facilitated Contractor Open House and follow-on contractor engagement sessions.





## Director's Activity Report

Director's Name Gil J. Botello

Month Reporting Activity July' 22

	Date	Meeting/Activity Description	Explanation <small>Provide description of the meeting or activity and brief explanation on the benefits to the District and work of the Board by your attendance. (Not required for Valley District meetings)</small>	Max 10/month	Travel Cost Estimate <i>(Staff)</i>
1	07/05/2022	Valley District Board Mtg 1	Valley District	\$299	
2	07/07/2022	Workshop - Resources	Valley District Workshop	\$299	
3	07/12/2022	Workshop - Engineering	Valley District Workshop	\$299	
4	07/14/2022	Workshop - Policy	Valley District Policy	\$299	
5	07/18/2022	CSDA Mtg	Association of Special Districts DINNER meeting	\$299	
6	07/19/2022	Valley District Board Mtg 2	Valley District	\$299	
7	07/20/2022	Other	SB City Council Meeting	\$0	
8	07/21/2022	Conference with General Manager	Valley District Annual Debt Service Workshop	\$299	
9	07/23/2022	Other	SNRC Ribbon Cutting	\$299	
10	07/26/2022	Conference with General Manager	Planning Session for Division 2 Water Forum	\$0	
11	07/27/2022	Conference with General Manager	Planning Session on Tres Lagos Estate	\$299	
12	07/28/2022	Other	The Climate Center: Investing in Farmers for Nature-Based Sequestration	\$299	
13	07/28/2022	Other	John Mura Retirement Party	\$0	
14		Select from List		Per diem?	
15		Select from List		Per diem?	
<b>Total Requested Compensation</b>				<b>\$ 2,990.00</b>	

*The undersigned certifies that the claims hereby stated are for authorized activities as described in the District's approved Resolution establishing rules and procedures for compensation of Directors.*

Signed: \_\_\_\_\_

Date: 07/29/2022



## Director Request for Compensation & Public Disclosure Form

Director's Name T. Milford Harrison

Month Reporting Activity JULY 2022

	Date	Meeting/Activity Description	Explanation <small>Provide description of the meeting or activity and brief explanation on the benefits to the District and work of the Board by your attendance. (Not required for Valley District meetings)</small>	Max 10/month	Travel Cost Estimate <i>(Staff)</i>
1	07/01/2022	Chamber of Commerce Mtg	REDLANDS CHAMBER OF COMMERCE	\$0	
2	07/05/2022	Valley District Board Mtg 1	PUBLISHED AGENDA	\$299	
3	07/06/2022	WIFA BOARD	PUBLISHED AGENDA	\$299	
4	07/07/2022	Workshop - Resources	PUBLISHED AGENDA	\$299	
5	07/08/2022	Assigned Committee Mtg	HCP GOV. RELATIONS COMMITTEE	\$299	
6	07/11/2022	ACWA LEG. CONFERENCE	TRAVEL	\$299	
7	07/12/2022	ACWA LEG CONFERENCE	PUBLISHED AGENDA	\$299	
8	07/13/2022	ACWA LEG. CONFERENCE	PUBLISHED AGENDA	\$299	
9	07/14/2022	ACWA LEG. CONFERENCE	PUBLISHED AGENDA	\$299	
10	07/19/2022	Valley District Board Mtg 2	PUBLISHED AGENDA	\$299	
11	07/20/2022	SBV Water Conservation District Mtg	CONSERVATION TRUST BOARD MEETING -- PUBLISHED AGENDA	\$299	
12	07/21/2022	SBVMWD BUDGET WORKSHOP	PUBLISHED AGENDA	\$0	
13	07/23/2022	STERLING RIBBON CUTTING	GRAND OPENING STERLING TREATMENT PLANT	\$0	
14	07/27/2022	BOARD TRES LAGOS WORKSHOP	PUBLISHED AGENDA	\$0	
15	07/29/2022	Chamber of Commerce Mtg	REDLANDS STATE OF THE CITY LUNCHEON	\$0	
<b>Total Requested Compensation</b>				<b>\$ 2,990.00</b>	<b>\$ 0.00</b>

**The undersigned certifies that the claims hereby stated are for authorized activities as described in the District's approved Resolution establishing rules and procedures for compensation of Directors.**

Signed: T. MILFORD HARRISON Digitally signed by T. MILFORD HARRISON  
Date: 2022.08.04 16:04:47 -07'00'

Date: 08/04/2022



## Director's Activity Report

Director's Name June Hayes

Month Reporting Activity July 2022

	Date	Meeting/Activity Description	Explanation Provide description of the meeting or activity and brief explanation on the benefits to the District and work of the Board by your attendance. <i>(Not required for Valley District meetings)</i>	Max 10/month	Travel Cost Estimate <i>(Staff)</i>
1	07/05/2022	Valley District Board Mtg 1		\$299	
2	07/07/2022	Workshop - Resources		\$299	
3	07/07/2022	WVWD meeting		\$0	
4	07/12/2022	Workshop - Engineering		\$299	
5	07/13/2022	SBV Water Conservation District Mtg		\$299	
6	07/14/2022	Workshop - Policy		\$299	
7	07/18/2022	CSDA Mtg		\$299	
8	07/21/2022	Debt Service meeting		\$299	
9	07/21/2022	WVWD meeting		\$0	
10	07/23/2022	Other	Stirling Ribbon cutting	\$299	
11	07/27/2022	Other	Tres Lagos workshop	\$299	
12	07/28/2022	Other	Greeley Hansen presentation on DeSal	\$299	
13	07/28/2022	Other	John Mura EV retirement	\$0	
14	07/29/2022	Other	Zoom meeting with Jeff Mosher SAWPA	\$0	
15		Select from List		Per diem?	
<b>Total Requested Compensation</b>				<b>\$ 2,990.00</b>	

***The undersigned certifies that the claims hereby stated are for authorized activities as described in the District's approved Resolution establishing rules and procedures for compensation of Directors.***

Signed: June D Hayes

Digitally signed by June D Hayes  
Date: 2022.08.01 13:38:36 -07'00'

Date: 08/01/2022



## Director's Activity Report

Director's Name Paul Kielhold

Month Reporting Activity July 2022

#	Date	Meeting/Activity Description	Explanation <small>Provide description of the meeting or activity and brief explanation on the benefits to the District and work of the Board by your attendance. (Not required for Valley District meetings)</small>	Max 10/month	Travel Cost Estimate <i>(Staff)</i>
1	07/05/2022	Valley District Board Mtg 1		\$299	
2	07/07/2022	Workshop - Resources		\$299	
3	07/12/2022	Workshop - Engineering		\$299	
4	07/13/2022	SBV Water Conservation District Mtg		\$299	
5	07/13/2022	Retail Agency Board Meeting	EVWD	\$0	
6	07/14/2022	Workshop - Policy		\$299	
7	07/19/2022	Valley District Board Mtg 2		\$299	
8	07/19/2022	SAWPA Mtg		\$0	
9	07/21/2022	Other	Debt Service Fund Budget	\$299	
10	07/23/2022	Other	SNRC Ribbon Cutting	\$0	
11	07/25/2022	Other	YVWD Com Water Mtg	\$0	
12	07/27/2022	Other	Tres Lagos Master Plan	\$299	
13	07/28/2022	Other	Mura's retirement	\$0	
14				\$0	
15				\$0	
<b>Total Requested Compensation</b>				<b>\$ 2,392.00</b>	<b>\$ 0.00</b>

***The undersigned certifies that the claims hereby stated are for authorized activities as described in the District's approved Resolution establishing rules and procedures for compensation of Directors.***

Signed: Paul Kielhold

Date: 07/31/2022



## Director Request for Compensation & Public Disclosure Form

Director's Name Susan Longville



Month Reporting Activity 7/31/22

	Date	Meeting/Activity Description	Explanation <small>Provide description of the meeting or activity and brief explanation on the benefits to the District and work of the Board by your attendance. (Not required for Valley District meetings)</small>	Max 10/month	Travel Cost Estimate <i>(Staff)</i>
1	07/05/2022	Valley District Board Mtg 1		\$299	
2	07/07/2022	Workshop - Resources		\$299	
3	07/11/2022	Other	DWR hosts the California Water Plan Virtual Workshop on Climate Change	\$0	
4	07/12/2022	Workshop - Engineering		\$299	
5	07/13/2022	SBV Water Conservation District Mtg		\$299	
6	07/14/2022	Workshop - Policy		\$299	
7	07/19/2022	Valley District Board Mtg 2		\$299	
8	07/21/2022	Assigned Committee Mtg	Debt Service Fund Budget Workshop	\$299	
9	07/23/2022	Other	EVWD Ribbon Cutting for Sterling Natural Resources Center	\$299	
10	07/27/2022	Assigned Committee Mtg	Board Workshop Tres Lagos Master Plan	\$299	
11	07/28/2022	Assigned Committee Mtg	Headwaters Resiliency Partnership Meeting	\$299	
12		Select from List		Per diem?	
13		Select from List		Per diem?	
14		Select from List		Per diem?	
15		Select from List		Per diem?	
<b>Total Requested Compensation</b>				2,990.00	

*The undersigned certifies that the claims hereby stated are for authorized activities as described in the District's approved Resolution establishing rules and procedures for compensation of Directors.*

Signed:

Date:  8-2-22



**DATE:** August 16, 2022  
**TO:** Board of Directors  
**FROM:** Matt Howard, Senior Water Resources Planner  
**SUBJECT:** Operations Report for July 2022

**ANNUAL SUPPLIES AND DELIVERIES AS OF JULY 2022 (Acre-Feet)**

<i>SUPPLY</i>	<i>AMOUNT (Acre-Feet)</i>	<i>2022 DELIVERIES</i>	<i>BALANCE</i>
Carryover	5,793	4,577	1,217
Table A	5,130	0	5,130
Kern-Delta	5,000	0	5,000
Subtotal SWP	15,923	4,577	6,347
<b>TOTAL</b>	<b>15,923</b>	<b>4,577</b>	<b>11,347</b>

**MONTHLY DELIVERIES FOR JULY 2022 (Acre-Feet)**

<i>CUSTOMER</i>	<i>DELIVERY POINT</i>	<i>AMOUNT (Acre-Feet)</i>	<i>TOTAL WY21- 22 AMOUNT</i>
SBB - Groundwater Council	Sweetwater/Waterman/Santa Ana Low/Etc.	0	0
West Valley Water District	Lytle Creek	470	737
Yucaipa Valley Water District	Yucaipa / Wilson	621	3,495
Bear Valley Mutual Water Company	Newport/Tres Lagos /SARC	167	1,231
SB County Regional Parks	Yucaipa Regional Park	26	195
Greenspot Mutual Water Company	Newport Turnout/ Tres Lagos	22	60
City of Redlands	SARC/Mill Creek	0	0
BLF Obligation - RHWC & Rialto	Waterman/Badger/Sweetwater	0	0
East Valley Water District	Plant 134 / North Fork	254	1,683
East Valley Water District	Santa Ana Low	0	0
San Bernardino City	Waterman/Badger/Sweetwater	0	0
Valley District	SARC/Mill Creek	0	0
Valley District	Sweetwater / Waterman	0	0
Valley District	Yucaipa / Wilson Basin	0	0
SWP Storage		86	444
<b>JULY AND WY TOTALS</b>		<b>1,645</b>	<b>7,845</b>

**San Bernardino Basin Wells**

Valley District extracted 398 acre-feet of groundwater from the San Bernardino Basin at the Baseline Feeder Replacement wells for delivery to West Valley Water District, City of Rialto and 0 acre-feet delivered to City of Redlands from the San Bernardino Ave. Well.

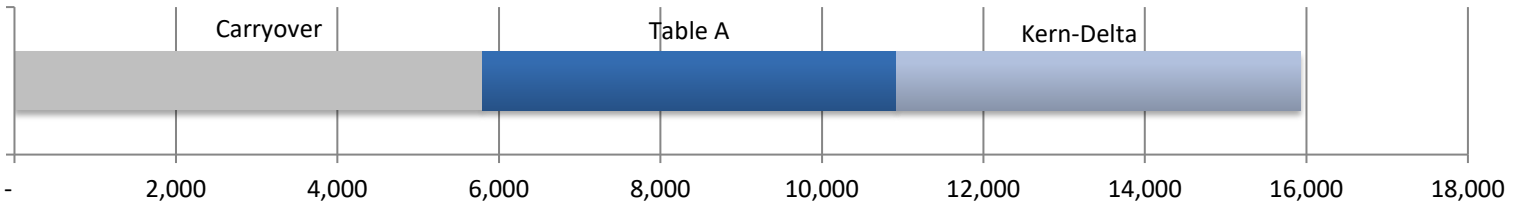




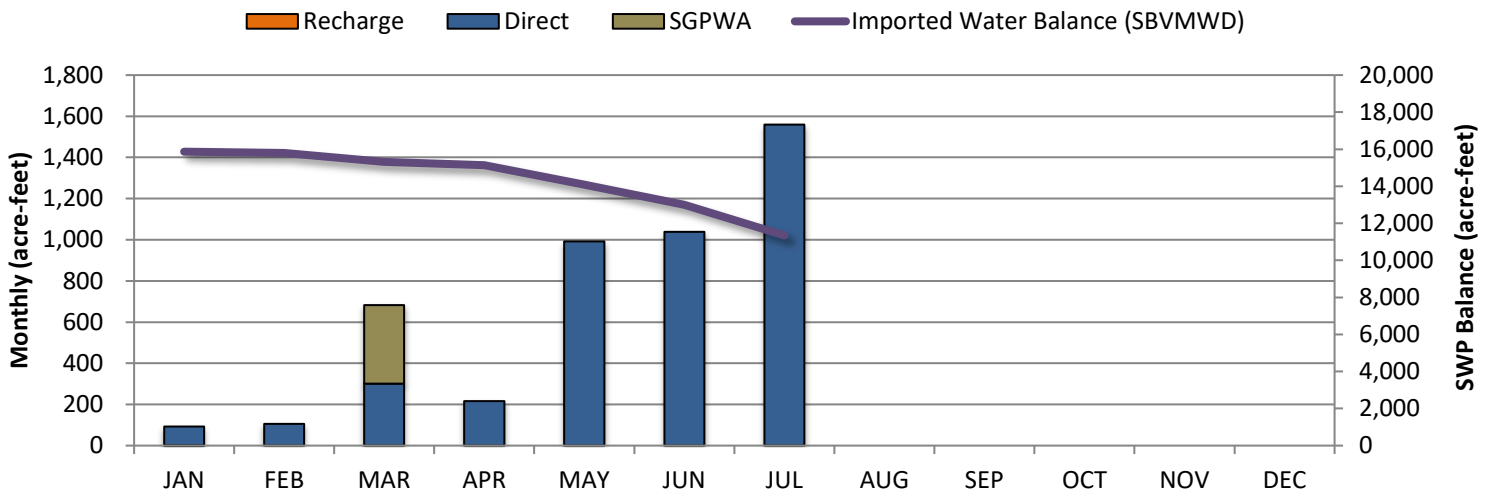
# San Bernardino Valley Municipal Water District

Calendar Year 2022 -- Acre Feet

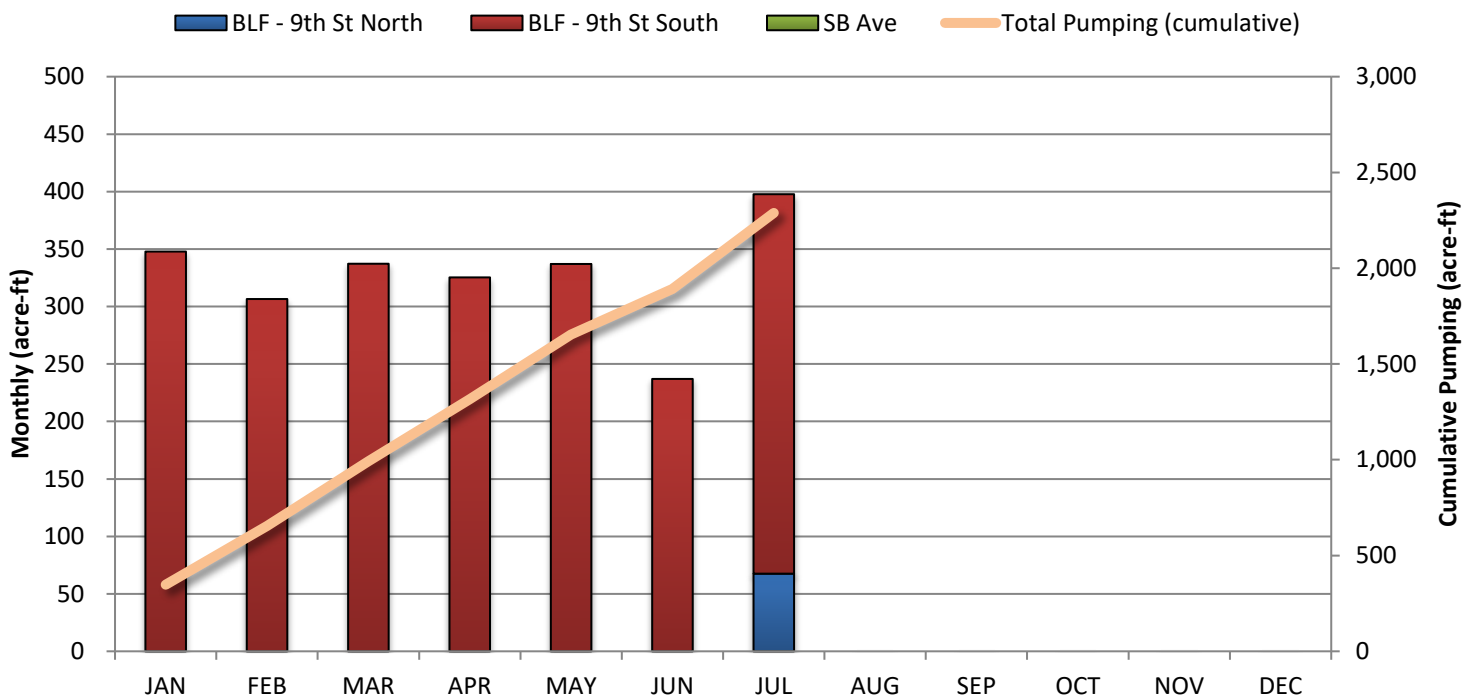
## IMPORTED WATER SUPPLY PORTFOLIO



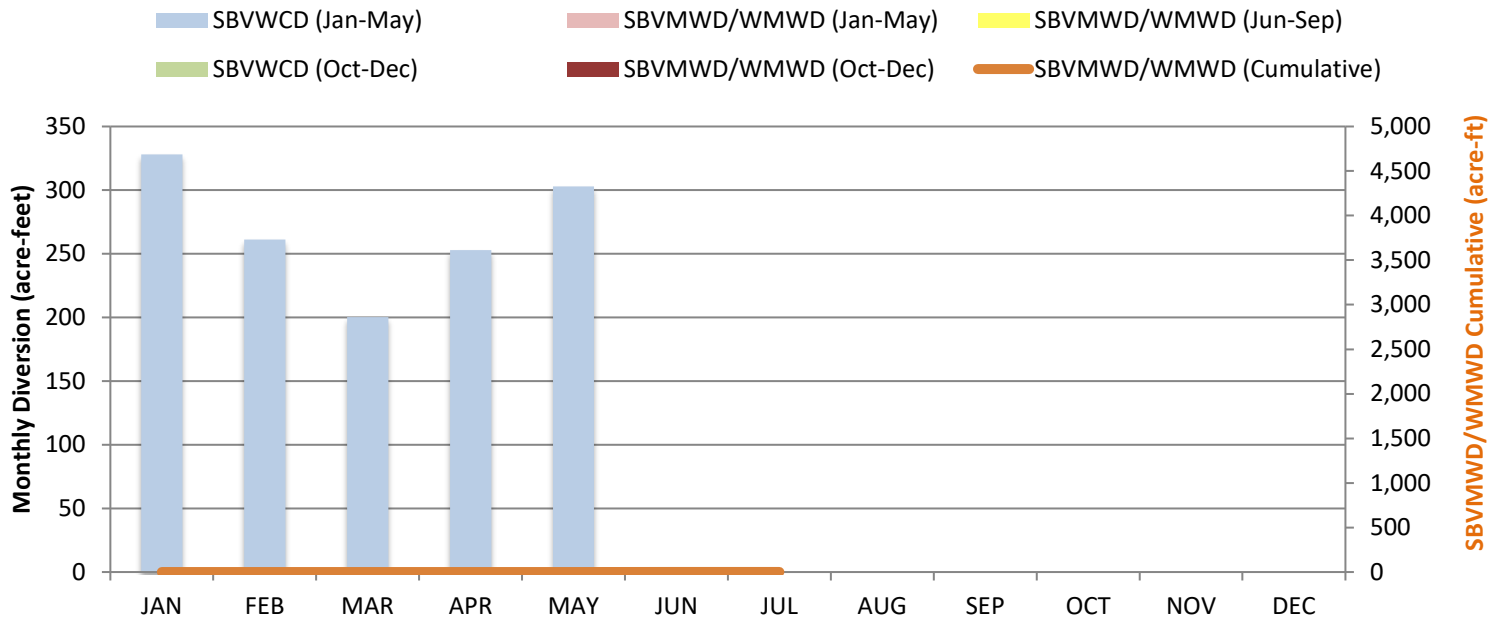
## IMPORTED WATER DELIVERIES



## SAN BERNARDINO BASIN PUMPING



## SANTA ANA RIVER DIVERSIONS





San Bernardino Valley Municipal Water District

Delivery of Water For Calendar Year 2022 -- Acre Feet

Measurement / Delivery Point	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>IMPORTED WATER SUPPLIES</b>													
<u>ADDITIONAL SUPPLIES VIA SWP</u>													
Multi-year Water Pool Demo	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Delta Water Bank	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sub-total additional supplies</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<u>STATE WATER PROJECT DELIVERY CATEGORIES</u>													
CLAWA Sale (2007 Agreement)	0	0	0	0	0	0	0	0	0	0	0	0	0
Yuba Accord Water	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara Exchange	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Delta Water Bank	0	0	0	0	0	0	0	0	0	0	0	0	0
State Water Project - Local Deliveries	57	71	475	188	1,040	1,085	0	0	0	0	0	0	2,916
<i>Sub-total Deliveries via SWP (DWR meters)</i>	<i>57</i>	<i>71</i>	<i>475</i>	<i>188</i>	<i>1,040</i>	<i>1,085</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>2,916</i>

<u>RECHARGE DELIVERIES</u>													
<b>Glen Helen Turnout</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Sweetwater</b>													
Sweetwater - SBB GC	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweetwater - Valley District	2	0	0	0	0	0	0	0	0	0	0	0	2
<b>Badger</b>													
Badger - SBB GC	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Waterman</b>													
Waterman - SBB GC	0	0	0	0	0	0	0	0	0	0	0	0	0
Waterman - BLF Obligation - RHWC	0	0	0	0	0	0	0	0	0	0	0	0	0
Waterman - BLF Obligation - Rialto	0	0	0	0	0	0	0	0	0	0	0	0	0
Waterman - BLF Obligation - WVWD	0	0	0	0	0	0	0	0	0	0	0	0	0
Waterman - Valley District	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Patton</b>													
Patton	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Santa Ana Low</b>													
Santa Ana Low - EVWD In-Lieu	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Ana Low - SBB GC	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Ana Low - BVMWC	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Ana Low - Redlands	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Ana Low - Valley District	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Plunge Creek - Valley District</b>													
Plunge Creek - Valley District	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Mill Creek Spreading</b>													
Mill Creek Spreading - Redlands	0	0	0	0	0	0	0	0	0	0	0	0	0
Mill Creek Spreading - Valley District	0	0	0	0	0	0	0	0	0	0	0	0	0
Lower Mill Creek - SBB GC	0	0	0	0	0	0	0	0	0	0	0	0	0

**Delivery of Water For Calendar Year 2022 -- Acre Feet**

Measurement / Delivery Point	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Mill Creek Spreading - SBB GC	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Zanja East Weir to WCD - Valley District</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Wilson Creek</b>													
Wilson Creek - YVWD	0	0	0	0	0	0	0	0	0	0	0	0	0
Wilson Basin - Valley District	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Oak Glen Basin - Valley District</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sub-total Recharge</i>	2	0	0	0	0	0	0	0	0	0	0	0	2

<b>DIRECT DELIVERIES</b>													
<b>Lytle Creek</b>													
Lytle Creek - WVWD TP	0	0	0	0	0	141	470	0	0	0	0	0	611
Lytle Creek - Marygold Mutual	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CLAWA</b>													
CLAWA Sale (#07-025)	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>EVWD Plant 134</b>													
EVWD Plant 134 In-Lieu	0	0	0	0	0	0	0	0	0	0	0	0	0
EVWD Plant 134 - BVMWC (for EVWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
EVWD Plant 134 - SBB GC - EVWD	0	0	0	0	0	0	0	0	0	0	0	0	0
EVWD Plant 134 - EVWD	23	68	191	187	272	183	254	0	0	0	0	0	1,178
<b>Northfork</b>													
Northfork - EVWD	0	0	0	0	0	0	0	0	0	0	0	0	0
Northfork - EVWD - In-Lieu	0	0	0	0	0	0	20	0	0	0	0	0	20
Northfork - BVMWC (for EVWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Edwards Canal Pump</b>													
<b>S.A.R.C.</b>													
S.A.R.C. - Valley District	0	0	0	0	0	0	0	0	0	0	0	0	0
S.A.R.C. to Redlands Aqueduct - Redlands	0	0	0	0	0	0	0	0	0	0	0	0	0
S.A.R.C. to Redlands Aqueduct - In-Lieu	0	0	0	0	0	0	51	0	0	0	0	0	51
S.A.R.C. to Redlands Aqueduct - BVMWC (for Redlands)	0	1	0	0	15	0	0	0	0	0	0	0	16
S.A.R.C. to Redlands Aqueduct Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>East Valley W.D. Greenspot Road</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Bear Valley Highline Connector</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SB County Flood Control Grove</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Newport Ave.</b>													
Newport Ave. - Greenspot Mutual	0	0	0	0	2	5	22	0	0	0	0	0	29
Newport Ave. - BVMWC	0	5	6	9	17	0	0	0	0	0	0	0	38
Newport Ave. - In-Lieu	0	0	0	0	0	16	21	0	0	0	0	0	37
<b>Tres Lagos</b>													
Tres Lagos - Greenspot Mutual	0	0	0	0	0	0	0	0	0	0	0	0	0
Tres Lagos - BVMWC	0	11	13	16	25	0	0	0	0	0	0	0	66
Tres Lagos - In-Lieu	0	0	0	0	0	22	25	0	0	0	0	0	47
<b>Unger Lane to Zanja</b>													

**Delivery of Water For Calendar Year 2022 -- Acre Feet**

Measurement / Delivery Point	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Unger Lane to Zanja - Crafton - BVMWC In-Lieu	0	0	0	0	0	50	51	0	0	0	0	0	100
Unger Lane to Zanja - Crafton - BVMWC	0	0	90	0	48	0	0	0	0	0	0	0	138
<b>Boullioun Box</b>													
Boullioun Box to Zanja	0	0	0	0	0	0	0	0	0	0	0	0	0
Boullioun Box to Highline In-Lieu	0	0	0	0	0	0	0	0	0	0	0	0	0
Boullioun Box to Highline - BVMWC	13	1	0	0	65	0	0	0	0	0	0	0	78
<b>City of Redlands</b>													
City of Redlands - Tate Treatment In-Lieu	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Redlands - Tate Treatment	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Yucaipa Regional Park</b>	3	19	0	3	23	33	26	0	0	0	0	0	106
<b>Yucaipa Valley Water District T.O.</b>	52	0	0	0	527	587	621	0	0	0	0	0	1,787
<b>Western Heights via YVWD T.O.</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sub-total Direct Delivery</i>	91	105	301	216	992	1,038	1,559	0	0	0	0	0	4,301
<b>STORAGE</b>													
<b>Citrus Reservoir, tanks, Crafton Hills Reservoir, et</b>	(36)	(36)	173	(29)	62	53	86	0	0	0	0	0	274
<b>Sub-total SBVMWD Imported Water</b>	<b>56</b>	<b>70</b>	<b>474</b>	<b>187</b>	<b>1,054</b>	<b>1,091</b>	<b>1,645</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,577</b>

Other SWP Deliveries

Little San Gorgonio Creek Turnout	0	0	0	0	0	0	0	0	0	0	0	0	0
Noble Creek Turnout	0	0	382	0	0	0	0	0	0	0	0	0	382
Lytle Creek - (MWDCS/IEUA) from WVWD	25	22	20	38	46	0	0	0	0	0	0	0	152
<i>Sub-total Other SWP Deliveries</i>	25	22	403	38	46	0	0	0	0	0	0	0	534
<b>Total Imported Water in Valley District Facilities</b>	<b>82</b>	<b>92</b>	<b>877</b>	<b>225</b>	<b>1,100</b>	<b>1,091</b>	<b>1,645</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,110</b>

<b>SAN BERNARDINO BASIN PUMPING</b>													
<u>Baseline Feeder</u>													
Ninth Street North Replacement Well	0	0	0	0	0	0	68	0	0	0	0	0	68
Ninth Street South Replacement Well	348	307	337	325	337	237	330	0	0	0	0	0	2,221
<i>Sub-total Baseline Feeder</i>	348	307	337	325	337	237	398	0	0	0	0	0	2,289
San Bernardino Avenue Well No. 1 - Redlands	0	0	0	0	0	0	0	0	0	0	0	0	0
San Bernardino Avenue Well No. 1 - In Lieu	0	0	0	0	0	0	0	0	0	0	0	0	0
Redlands Agreement (RPS)	0	0	0	0	0	0	0	0	0	0	0	0	0
De-watering Well # 1	0	0	0	0	0	0	0	0	0	0	0	0	0
De-watering Well # 2	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total San Bernardino Basin Pumping</b>	<b>348</b>	<b>307</b>	<b>337</b>	<b>325</b>	<b>337</b>	<b>237</b>	<b>398</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,289</b>
<b>TOTAL Water in SBVMWD Facilities</b>	<b>430</b>	<b>398</b>	<b>1,214</b>	<b>550</b>	<b>1,437</b>	<b>1,328</b>	<b>2,043</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,399</b>



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**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
TREASURER'S REPORT  
FOR THE MONTH OF JULY 2022**

RECOMMENDATION:  
APPROVE THE EXPENSES FOR THE MONTH OF JULY 2022  
FOR THE FOLLOWING FUNDS:

STATE WATER CONTRACT FUND	\$ 6,972,565.00
DEVIL CANYON / CASTAIC FUND	\$ 421,150.00
GENERAL FUND	\$ 2,545,685.63

# STATE WATER CONTRACT FUND

## Profit & Loss

July 2022

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	<u>Jul 22</u>
<b>Income</b>	
4920 · INVESTMENT INCOME	2,286,431.14
4966 · PROPERTY TAXES	1,394,327.30
<b>Total Income</b>	<u>3,680,758.44</u>
<b>Expense</b>	
6601 · CAPITAL COST DELTA	2,063,167.00
6605 · CAPITAL COST TRANSPORTATION	896,040.00
6610 · MINIMUM OMP&R TRANSPORTATION	1,587,775.00
6615 · MINIMUM OMP&R DELTA	497,869.00
6620 · VARIABLE	446,450.00
6625 · WATER SYSTEM REVENUE BOND	1,458,572.00
6630 · OFF AQUEDUCT VARIABLE	4,741.00
6635 · EAST BRANCH ENLARGEMENT	17,951.00
<b>Total Expense</b>	<u>6,972,565.00</u>
<b>Net Income</b>	<u><b>(3,291,806.56)</b></u>

**STATE WATER CONTRACT FUND**  
**Profit & Loss Budget vs. Actual**  
**July 2022**

	Jul 22	Budget	\$ Over Budget	% of Budget
<b>Income</b>				
4920 · INVESTMENT INCOME	2,286,431.14	200,000.00	2,086,431.14	1,143.2%
4966 · PROPERTY TAXES	1,394,327.30	1,300,000.00	94,327.30	107.3%
<b>Total Income</b>	3,680,758.44	1,500,000.00	2,180,758.44	245.4%
<b>Expense</b>				
6601 · CAPITAL COST DELTA	2,063,167.00	2,063,167.00	0.00	100.0%
6605 · CAPITAL COST TRANSPORTATION	896,040.00	896,040.00	0.00	100.0%
6610 · MINIMUM OMP&R TRANSPORTATION	1,587,775.00	1,587,775.00	0.00	100.0%
6615 · MINIMUM OMP&R DELTA	497,869.00	497,869.00	0.00	100.0%
6620 · VARIABLE	446,450.00	450,000.00	(3,550.00)	99.2%
6625 · WATER SYSTEM REVENUE BOND	1,458,572.00	1,458,572.00	0.00	100.0%
6630 · OFF AQUEDUCT VARIABLE	4,741.00	4,741.00	0.00	100.0%
6635 · EAST BRANCH ENLARGEMENT	17,951.00	17,951.00	0.00	100.0%
<b>Total Expense</b>	6,972,565.00	6,976,115.00	(3,550.00)	99.9%
<b>Net Income</b>	<b>(3,291,806.56)</b>	<b>(5,476,115.00)</b>	<b>2,184,308.44</b>	<b>60.1%</b>



**DEVIL CANYON/CASTAIC**  
**Profit & Loss**  
July 2022

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	<u>Jul 22</u>
<b>Income</b>	
4920 · INVESTMENT INCOME	67,838.71
4966 · PROPERTY TAXES	<u>43,123.52</u>
<b>Total Income</b>	<u>110,962.23</u>
<b>Gross Profit</b>	110,962.23
<b>Expense</b>	
6601 · OMP&R	113,551.00
6610 · DEBT SERVICE	<u>307,599.00</u>
<b>Total Expense</b>	<u>421,150.00</u>
<b>Net Income</b>	<u><u><b>-310,187.77</b></u></u>

**DEVIL CANYON/CASTAIC**  
**Profit & Loss Budget vs. Actual**  
**July 2022**

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	Jul 22	Budget	\$ Over Budget	% of Budget
<b>Income</b>				
<b>4920 · INVESTMENT INCOME</b>	67,838.71	2,500.00	65,338.71	2,713.5%
<b>4966 · PROPERTY TAXES</b>	43,123.52	0.00	43,123.52	100.0%
<b>Total Income</b>	110,962.23	2,500.00	108,462.23	4,438.5%
<b>Gross Profit</b>	110,962.23	2,500.00	108,462.23	4,438.5%
<b>Expense</b>				
<b>6601 · OMP&amp;R</b>	113,551.00	113,551.00	0.00	100.0%
<b>6610 · DEBT SERVICE</b>	307,599.00	307,599.00	0.00	100.0%
<b>Total Expense</b>	421,150.00	421,150.00	0.00	100.0%
<b>Net Income</b>	<b>(310,187.77)</b>	<b>(418,650.00)</b>	<b>108,462.23</b>	<b>74.1%</b>

**SAN BERNARDINO VALLEY MWD GENERAL FUND**

**Profit & Loss**

July 2022

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	<u>Jul 22</u>
<b>Income</b>	
4900 · WATER SALES	1,954,916.99
4920 · INVESTMENT INCOME	249,285.61
4940 · SUCCESSOR AGENCY PASS THROUGH	33,789.67
4950 · OTHER INCOME	4,800.00
4954 · GAIN (LOSS) ON SALE OF ASSETS	412,651.00
4966 · S.B. CO TAXES	224,574.42
4977 · RIVERSIDE CO TAXES	0.56
	<hr/>
<b>Total Income</b>	2,880,018.25
<b>Expense</b>	
6100 · SALARIES	442,564.70
6110 · OVERTIME	3,770.18
6120 · DIRECTORS FEES	14,352.00
6130 · PERS RETIREMENT	390,389.67
6140 · PAYROLL TAXES	33,093.25
6150 · HEALTH INSURANCE	69,008.04
6160 · DENTAL INSURANCE	5,172.39
6170 · VISION, DISABILITY AND LIFE INS	3,787.79
6180 · WORKERS COMP INS	11,250.53
6200 · HEALTH/DEPENDENT CARE PLAN	3,001.50
6240 · PIPELINE CONTROL SYSTEM	6,570.00
6280 · FIELD IMPROVEMENTS	12,693.50
6295 · PURCHASED WATER	201,911.70
6320 · HOUSE COUNSEL	20,306.99
6330 · SPECIAL COUNSEL	72,434.90
6350 · USGS DATA	249,569.14
6360 · CONSULTANTS	229,761.37
6390 · SAWPA	441,933.74
6400 · VEHICLE EXPENSE	11,805.63
6410 · TRAVEL	726.73
6420 · MEALS & LODGING	7,626.33
6450 · WATERSTOCK ASSESSMENT	39.74
6460 · UTILITIES/COMMUNICATIONS	108,428.85
6470 · MAINTENANCE & REPAIRS	46,159.28
6480 · OFFICE EXPENSE	5,480.93
6490 · FIELD SUPPLIES	24,917.39
6500 · EDUCATION AND TRAINING	2,367.24
6570 · POSTAGE	179.23
6580 · DUES & SUBSCRIPTIONS	21,193.12
6600 · TAXES & LICENSES	520.66
6620 · COOP WATER PROJECT PROJECT MGR	30,000.00
6640 · WATER CONSERVATION & EDUCATION	18,964.50
6642 · SPONSORSHIPS	5,500.00
6650 · PUBLIC NOTICES	573.33
6780 · ENVIRONMENTAL / HCP	1,648.20
6800 · LAFCO ANNUAL FUNDING SHARE	30,000.00
6820 · SECURITY	5,279.96
	<hr/>
<b>Total Expense</b>	2,532,982.51
<b>Net Income</b>	<hr/> <b>347,035.74</b> <hr/>

**SAN BERNARDINO VALLEY MWD GENERAL FUND**  
**Profit & Loss Budget vs. Actual**  
**July 2022**

	Jul 22	Budget	\$ Over Budget	% of Budget
<b>Income</b>				
4900 · WATER SALES	1,954,916.99	1,950,000.00	4,916.99	100.3%
4920 · INVESTMENT INCOME	249,285.61	31,000.00	218,285.61	804.1%
4940 · SUCCESSOR AGENCY PASS THROUGH	33,789.67	30,000.00	3,789.67	112.6%
4950 · OTHER INCOME	4,800.00	4,800.00	0.00	100.0%
4954 · GAIN (LOSS) ON SALE OF ASSETS	412,651.00	400,000.00	12,651.00	103.2%
4966 · S.B. CO TAXES	224,574.42	224,000.00	574.42	100.3%
4977 · RIVERSIDE CO TAXES	0.56	0.00	0.56	100.0%
<b>Total Income</b>	<b>2,880,018.25</b>	<b>2,639,800.00</b>	<b>240,218.25</b>	<b>109.1%</b>
<b>Expense</b>				
6100 · SALARIES	388,113.50	389,000.00	(886.50)	99.8%
6110 · OVERTIME	3,770.18	4,600.00	(829.82)	82.0%
6120 · DIRECTORS FEES	14,352.00	14,950.00	(598.00)	96.0%
6130 · PERS RETIREMENT	390,389.67	391,000.00	(610.33)	99.8%
6140 · PAYROLL TAXES	33,093.25	33,100.00	(6.75)	100.0%
6150 · HEALTH INSURANCE	69,008.04	69,200.00	(191.96)	99.7%
6160 · DENTAL INSURANCE	5,172.39	5,750.00	(577.61)	90.0%
6170 · VISION, DISABILITY AND LIFE INS	3,787.79	4,125.00	(337.21)	91.8%
6180 · WORKERS COMP INS	11,250.53	12,000.00	(749.47)	93.8%
6200 · HEALTH/DEPENDENT CARE PLAN	3,001.50	3,150.00	(148.50)	95.3%
6240 · PIPELINE CONTROL SYSTEM	6,570.00	6,750.00	(180.00)	97.3%
6280 · FIELD IMPROVEMENTS	12,693.50	12,800.00	(106.50)	99.2%
6295 · PURCHASED WATER	201,911.70	202,500.00	(588.30)	99.7%
6320 · HOUSE COUNSEL	20,306.99	21,000.00	(693.01)	96.7%
6330 · SPECIAL COUNSEL	72,434.90	73,500.00	(1,065.10)	98.6%
6350 · USGS DATA	249,569.14	250,000.00	(430.86)	99.8%
6360 · CONSULTANTS	229,761.37	230,500.00	(738.63)	99.7%
6390 · SAWPA	441,933.74	442,000.00	(66.26)	100.0%
6400 · VEHICLE EXPENSE	11,805.63	12,050.00	(244.37)	98.0%
6410 · TRAVEL	726.73	1,000.00	(273.27)	72.7%
6420 · MEALS & LODGING	7,626.33	7,700.00	(73.67)	99.0%
6450 · WATERSTOCK ASSESSMENT	39.74	50.00	(10.26)	79.5%
6460 · UTILITIES/COMMUNICATIONS	108,428.85	109,500.00	(1,071.15)	99.0%
6470 · MAINTENANCE & REPAIRS	46,159.28	47,500.00	(1,340.72)	97.2%
6480 · OFFICE EXPENSE	5,480.93	5,875.00	(394.07)	93.3%
6490 · FIELD SUPPLIES	24,917.39	25,000.00	(82.61)	99.7%
6500 · EDUCATION AND TRAINING	2,367.24	2,450.00	(82.76)	96.6%
6570 · POSTAGE	179.23	200.00	(20.77)	89.6%
6580 · DUES & SUBSCRIPTIONS	21,193.12	22,500.00	(1,306.88)	94.2%
6600 · TAXES & LICENSES	520.66	750.00	(229.34)	69.4%
6620 · COOP WATER PROJECT PROJECT MGR	30,000.00	0.00	30,000.00	100.0%
6640 · WATER CONSERVATION & EDUCATION	18,964.50	19,000.00	(35.50)	99.8%
6642 · SPONSORSHIPS	5,500.00	5,500.00	0.00	100.0%
6650 · PUBLIC NOTICES	573.33	600.00	(26.67)	95.6%
6780 · ENVIRONMENTAL / HCP	1,648.20	1,750.00	(101.80)	94.2%
6800 · LAFCO ANNUAL FUNDING SHARE	30,000.00	30,000.00	0.00	100.0%
6820 · SECURITY	5,279.96	5,350.00	(70.04)	98.7%
<b>Total Expense</b>	<b>2,478,531.31</b>	<b>2,462,700.00</b>	<b>15,831.31</b>	<b>100.6%</b>
<b>Net Income</b>	<b>401,486.94</b>	<b>177,100.00</b>	<b>224,386.94</b>	<b>226.7%</b>

**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
INVESTMENT SUMMARY  
JULY 31, 2022**

INVESTMENT DESCRIPTION	INSTITUTION	MATURITY DATE	PAR VALUE	ISSUE DATE	PURCHASE PRICE	BOOK YIELD RATE	CUSIP
<b>STATE WATER CONTRACT FUND</b>							
DWR CVP REVENUE BOND	STATE	7/1/2022	5,000.00		3,940.16	5.250%	
AGENCY BONDS - FNMA NOTES	BNY MELLON	04/20/2023	4,640,000.00	04/17/2020	4,628,400.00	0.459%	3137EAEQ8
AGENCY BONDS - FNMA NOTES	BNY MELLON	05/05/2023	4,400,000.00	05/05/2020	4,398,152.00	0.389%	3137EAER6
AGENCY BONDS - FNMA NOTES	BNY MELLON	05/22/2023	5,020,000.00	05/20/2020	5,004,889.80	0.351%	3135G04Q3
AGENCY BONDS - FNMA NOTES	BNY MELLON	06/26/2023	4,525,000.00	06/24/2020	4,511,787.00	0.348%	3137EAES4
AGENCY BONDS - FNMA NOTES	BNY MELLON	07/10/2023	4,765,000.00	07/08/2020	4,754,755.25	0.322%	3135G05G4
AGENCY BONDS - FNMA NOTES	BNY MELLON	07/10/2023	900,000.00	10/07/2020	899,793.00	0.258%	3135G05G4
AGENCY BONDS - FNMA NOTES	BNY MELLON	08/24/2023	4,700,000.00	08/19/2020	4,695,206.00	0.284%	3137EAEV7
AGENCY BONDS - FNMA NOTES	BNY MELLON	09/08/2023	4,300,000.00	09/02/2020	4,298,581.00	0.261%	3137EAEW5
AGENCY BONDS - FNMA NOTES	BNY MELLON	09/08/2023	3,235,000.00	09/02/2020	3,235,590.74	0.244%	3137EAEW5
AGENCY BONDS - FNMA NOTES	BNY MELLON	09/08/2023	900,000.00	10/07/2020	899,739.00	0.260%	3137EAEW5
AGENCY BONDS - FNMA NOTES	BNY MELLON	10/16/2023	1,475,000.00	10/14/2020	1,469,498.25	0.250%	3137EAEE1
AGENCY BONDS - FNMA NOTES	BNY MELLON	11/06/2023	5,695,000.00	11/03/2020	5,689,874.50	0.280%	3137EAEEZ8
AGENCY BONDS - FNMA NOTES	BNY MELLON	11/27/2023	500,000.00	11/23/2020	499,430.00	0.288%	3135G06H1
AGENCY BONDS - FNMA NOTES	BNY MELLON	12/04/2023	4,400,000.00	12/02/2020	4,395,644.00	0.283%	3137EAF2
CERTIFICATE OF DEPOSIT	BNY MELLON	03/17/2023	1,935,000.00	03/19/2021	1,935,000.00	0.590%	22552G3C2
CORPORATE NOTE	BNY MELLON	08/08/2022	500,000.00	07/30/2019	499,495.00	2.185%	438516BT2
CORPORATE NOTE	BNY MELLON	09/11/2022	295,000.00	09/04/2019	294,949.85	1.706%	037833DL1
CORPORATE NOTE	BNY MELLON	09/15/2022	670,000.00	03/13/2019	663,152.60	2.735%	589331AT4
CORPORATE NOTE	BNY MELLON	09/26/2022	550,000.00	09/23/2019	549,329.00	2.042%	69371RQ33
CORPORATE NOTE	BNY MELLON	11/18/2022	275,000.00	01/09/2020	274,873.50	1.967%	14913Q3C1
CORPORATE NOTE	BNY MELLON	01/27/2023	550,000.00	01/21/2020	549,615.00	1.874%	06406RAM9
CORPORATE NOTE	BNY MELLON	02/01/2023	275,000.00	01/22/2020	274,623.25	1.747%	00724PAA7
CORPORATE NOTE	BNY MELLON	02/01/2023	250,000.00	01/23/2020	250,020.00	1.697%	00724PAA7
CORPORATE NOTE	BNY MELLON	02/14/2023	600,000.00	08/19/2019	597,714.00	1.864%	88579YBL4
CORPORATE NOTE	BNY MELLON	04/06/2023	410,000.00	04/06/2021	409,667.90	0.441%	89236TJD8
CORPORATE NOTE	BNY MELLON	05/01/2023	575,000.00	04/29/2020	573,861.50	0.817%	713448EY0
CORPORATE NOTE	BNY MELLON	06/08/2023	160,000.00	06/01/2020	159,777.60	0.847%	69371RQ82
CORPORATE NOTE	BNY MELLON	06/26/2023	750,000.00	06/09/2020	811,305.00	0.608%	931142EK5
CORPORATE NOTE	BNY MELLON	08/11/2023	175,000.00	08/04/2020	174,770.75	0.394%	69371RQ90
CORPORATE NOTE	BNY MELLON	09/14/2023	275,000.00	09/08/2020	274,648.00	0.418%	904764BJ5
CORPORATE NOTE	BNY MELLON	09/14/2023	500,000.00	09/09/2020	499,660.00	0.473%	14913R2F3
CORPORATE NOTE	BNY MELLON	11/13/2023	1,165,000.00	11/09/2020	1,165,000.00	0.537%	110122DT2
CORPORATE NOTE	BNY MELLON	11/17/2023	825,000.00	11/16/2020	825,000.00	0.627%	38141GX3
CORPORATE NOTE	BNY MELLON	01/10/2024	675,000.00	01/03/2022	674,892.00	0.958%	14913R2S5
CORPORATE NOTE	BNY MELLON	01/11/2024	1,200,000.00	01/06/2021	1,199,928.00	0.452%	89236THU2
CORPORATE NOTE	BNY MELLON	01/17/2024	480,000.00	03/01/2021	479,659.20	0.475%	24422EVN6
CORPORATE NOTE	BNY MELLON	02/08/2024	555,000.00	02/01/2021	554,617.05	0.373%	63743HEU2
CORPORATE NOTE	BNY MELLON	03/03/2024	300,000.00	01/21/2021	330,642.00	0.671%	38141GVM3
CORPORATE NOTE	BNY MELLON	03/05/2024	1,075,000.00	09/24/2020	1,144,079.50	0.878%	06051GHF9
CORPORATE NOTE	BNY MELLON	03/18/2024	795,000.00	03/16/2021	794,602.50	0.767%	808513BN4
CORPORATE NOTE	BNY MELLON	04/15/2024	575,000.00	05/07/2020	629,964.25	1.151%	20030NCR0
CORPORATE NOTE	BNY MELLON	05/12/2024	1,940,000.00	05/10/2021	1,937,167.60	0.499%	023135BW5
CORPORATE NOTE	BNY MELLON	05/15/2024	915,000.00	05/17/2021	914,048.40	0.585%	91324PEB4
CORPORATE NOTE	BNY MELLON	05/24/2024	2,145,000.00	05/17/2022	2,144,914.20	3.752%	40428HTA0
CORPORATE NOTE	BNY MELLON	05/28/2024	1,275,000.00	05/25/2021	1,274,885.25	0.703%	04636NAC7
CORPORATE NOTE	BNY MELLON	06/01/2024	500,000.00	05/19/2020	500,000.00	1.514%	46647PBQ8
CORPORATE NOTE	BNY MELLON	06/07/2024	420,000.00	06/07/2021	419,475.00	0.492%	24422EVQ9
CORPORATE NOTE	BNY MELLON	06/18/2024	750,000.00	06/15/2021	749,107.50	0.540%	89236TJH9
CORPORATE NOTE	BNY MELLON	07/30/2024	1,200,000.00	11/19/2021	1,242,960.00	1.099%	025816CG2
CORPORATE NOTE	BNY MELLON	08/09/2024	710,000.00	08/03/2021	709,616.60	0.518%	69371RR40
CORPORATE NOTE	BNY MELLON	08/09/2024	970,000.00	09/07/2021	969,359.80	0.773%	02665WDY4
CORPORATE NOTE	BNY MELLON	08/12/2024	600,000.00	08/09/2021	599,946.00	0.753%	05565EBU8
CORPORATE NOTE	BNY MELLON	08/12/2024	470,000.00	08/09/2021	470,000.00	0.626%	904764BN6
CORPORATE NOTE	BNY MELLON	09/10/2024	285,000.00	09/07/2021	284,814.75	0.647%	24422EVU0
CORPORATE NOTE	BNY MELLON	09/14/2024	2,145,000.00	09/07/2021	2,145,000.00	0.606%	641062AU8
CORPORATE NOTE	BNY MELLON	09/16/2024	555,000.00	09/09/2020	555,000.00	0.653%	46647PBS4
CORPORATE NOTE	BNY MELLON	10/24/2024	1,000,000.00	10/16/2020	1,000,000.00	0.810%	06051GJH3
CORPORATE NOTE	BNY MELLON	10/25/2024	670,000.00	10/20/2021	669,564.50	0.872%	06406RAX5
CORPORATE NOTE	BNY MELLON	10/30/2024	1,000,000.00	10/23/2020	1,000,000.00	0.776%	172967MT5
CORPORATE NOTE	BNY MELLON	01/10/2025	480,000.00	01/04/2022	479,774.40	1.266%	24422EVY2
CORPORATE NOTE	BNY MELLON	01/10/2025	1,250,000.00	01/06/2022	1,246,175.00	1.480%	21688AAS1

**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
INVESTMENT SUMMARY  
JULY 31, 2022**

INVESTMENT DESCRIPTION	INSTITUTION	MATURITY DATE	PAR VALUE	ISSUE DATE	PURCHASE PRICE	BOOK YIELD RATE	CUSIP
CORPORATE NOTE	BNY MELLON	01/13/2025	1,000,000.00	01/11/2022	999,210.00	1.527%	02665WEA5
CORPORATE NOTE	BNY MELLON	01/24/2025	1,050,000.00	01/19/2022	1,050,000.00	1.758%	38141GZH0
CORPORATE NOTE	BNY MELLON	02/04/2025	900,000.00	02/01/2022	900,000.00	1.844%	06051GKG3
CORPORATE NOTE	BNY MELLON	02/07/2025	405,000.00	01/31/2022	404,987.85	1.876%	63743HFC1
CORPORATE NOTE	BNY MELLON	02/10/2025	590,000.00	03/08/2021	628,468.00	0.937%	58933YAR6
CORPORATE NOTE	BNY MELLON	02/16/2025	405,000.00	02/09/2021	405,000.00	0.563%	46647PBY1
CORPORATE NOTE	BNY MELLON	03/04/2025	350,000.00	03/01/2022	349,646.50	2.285%	025816CQ0
CORPORATE NOTE	BNY MELLON	03/04/2025	500,000.00	03/02/2022	498,315.00	2.367%	025816CQ0
CORPORATE NOTE	BNY MELLON	03/07/2025	160,000.00	03/02/2022	159,931.20	2.140%	24422EWB1
CORPORATE NOTE	BNY MELLON	03/10/2025	3,760,000.00	03/03/2022	3,760,000.00	2.132%	771196BT8
CORPORATE NOTE	BNY MELLON	04/01/2025	710,000.00	03/28/2022	709,332.60	3.283%	05565EBZ7
CORPORATE NOTE	BNY MELLON	04/07/2025	1,100,000.00	03/31/2022	1,099,714.00	2.859%	69371RR73
CORPORATE NOTE	BNY MELLON	04/13/2025	1,300,000.00	04/11/2022	1,297,933.00	3.056%	023135CE4
CORPORATE NOTE	BNY MELLON	04/15/2025	225,000.00	03/24/2022	224,606.25	2.760%	437076CM2
CORPORATE NOTE	BNY MELLON	04/17/2025	850,000.00	04/18/2022	850,000.00	3.623%	61747YEQ4
CORPORATE NOTE	BNY MELLON	04/24/2025	675,000.00	03/04/2021	694,210.50	0.882%	06406RAN7
CORPORATE NOTE	BNY MELLON	04/25/2025	2,900,000.00	04/19/2022	2,899,594.00	3.355%	06406RBC0
CORPORATE NOTE	BNY MELLON	05/01/2025	460,000.00	04/27/2021	460,000.00	0.981%	172967MX6
CORPORATE NOTE	BNY MELLON	05/01/2025	625,000.00	04/26/2022	624,862.50	3.458%	17252MAP5
CORPORATE NOTE	BNY MELLON	05/01/2025	1,155,000.00	05/23/2022	1,151,223.15	3.494%	90327QD89
CORPORATE NOTE	BNY MELLON	05/13/2025	655,000.00	05/10/2022	654,168.15	3.445%	14913R2V8
CORPORATE NOTE	BNY MELLON	06/01/2025	605,000.00	05/24/2021	605,000.00	0.824%	46647PCH7
CORPORATE NOTE	BNY MELLON	06/09/2025	1,555,000.00	05/31/2022	1,555,000.00	3.500%	63254ABD9
CORPORATE NOTE	BNY MELLON	06/15/2025	255,000.00	04/27/2022	254,931.15	3.458%	63743HFE7
CORPORATE NOTE	BNY MELLON	06/23/2025	1,250,000.00	06/21/2021	1,250,000.00	0.969%	46647PCK0
CORPORATE NOTE	BNY MELLON	07/27/2025	2,130,000.00	07/20/2022	2,130,000.00	4.000%	459200KS9
CORPORATE NOTE	BNY MELLON	11/03/2025	445,000.00	10/27/2021	445,000.00	1.281%	172967ND9
CORPORATE NOTE	BNY MELLON	12/06/2025	1,250,000.00	12/01/2021	1,250,000.00	1.530%	06051GKE8
CORPORATE NOTE	BNY MELLON	02/06/2026	595,000.00	02/02/2022	595,000.00	1.746%	857477BR3
CORPORATE NOTE	BNY MELLON	02/18/2026	1,365,000.00	02/16/2022	1,365,000.00	2.631%	61747YEM3
CORPORATE NOTE	BNY MELLON	03/30/2026	1,000,000.00	02/17/2022	1,020,130.00	2.226%	857477BM4
CORPORATE NOTE	BNY MELLON	04/26/2026	600,000.00	04/19/2022	600,000.00	4.083%	46647PCZ7
CORPORATE NOTE	BNY MELLON	07/28/2026	935,000.00	07/25/2022	935,000.00	4.263%	89788MAH5
MUNICIPAL BOND / NOTE	BNY MELLON	12/01/2022	395,000.00	07/30/2020	395,000.00	0.349%	13067WQZ8
MUNICIPAL BOND / NOTE	BNY MELLON	03/15/2023	570,000.00	12/16/2020	570,000.00	0.480%	650036DR4
MUNICIPAL BOND / NOTE	BNY MELLON	07/01/2023	135,000.00	05/29/2020	135,805.95	1.798%	20772KJV2
MUNICIPAL BOND / NOTE	BNY MELLON	08/01/2023	1,300,000.00	07/23/2020	1,300,000.00	0.410%	574193TP3
MUNICIPAL BOND / NOTE	BNY MELLON	08/01/2023	465,000.00	10/30/2020	465,000.00	0.444%	54438CYH9
MUNICIPAL BOND / NOTE	BNY MELLON	11/01/2023	575,000.00	07/24/2020	575,000.00	0.422%	605581MY0
MUNICIPAL BOND / NOTE	BNY MELLON	11/01/2023	625,000.00	08/27/2020	625,000.00	0.475%	13077DMJ8
MUNICIPAL BOND / NOTE	BNY MELLON	12/01/2023	135,000.00	07/30/2020	135,000.00	0.414%	13067WRA2
MUNICIPAL BOND / NOTE	BNY MELLON	03/15/2024	1,710,000.00	12/16/2020	1,710,000.00	0.620%	650036DS2
MUNICIPAL BOND / NOTE	BNY MELLON	01/01/2025	520,000.00	01/22/2021	520,000.00	0.897%	646140DN0
MUNICIPAL BOND / NOTE	BNY MELLON	07/01/2025	630,000.00	09/03/2020	630,000.00	1.258%	341271AD6
US TREASURY NOTES	BNY MELLON	03/31/2023	5,000,000.00	03/02/2020	5,102,929.69	0.820%	912828Q29
US TREASURY NOTES	BNY MELLON	03/31/2023	2,600,000.00	04/15/2021	2,598,476.56	0.155%	91282CBU4
US TREASURY NOTES	BNY MELLON	05/15/2023	3,100,000.00	06/03/2020	3,088,859.38	0.248%	912828ZP8
US TREASURY NOTES	BNY MELLON	05/31/2023	5,000,000.00	06/14/2021	4,996,679.69	0.159%	91282CCD1
US TREASURY NOTES	BNY MELLON	05/31/2023	6,000,000.00	06/17/2021	5,989,921.88	0.212%	91282CCD1
US TREASURY NOTES	BNY MELLON	06/15/2023	3,000,000.00	06/11/2020	3,003,867.19	0.207%	912828ZU7
US TREASURY NOTES	BNY MELLON	06/15/2023	3,000,000.00	06/18/2020	3,002,460.94	0.222%	912828ZU7
US TREASURY NOTES	BNY MELLON	06/30/2023	1,500,000.00	03/05/2020	1,536,445.31	0.631%	912828S35
US TREASURY NOTES	BNY MELLON	07/31/2023	5,000,000.00	05/03/2021	5,116,992.19	0.204%	912828S92
US TREASURY NOTES	BNY MELLON	09/30/2023	4,500,000.00	10/04/2021	4,497,714.84	0.276%	91282CDA6
US TREASURY NOTES	BNY MELLON	10/15/2023	3,000,000.00	10/08/2020	2,994,257.81	0.189%	91282CAP6
US TREASURY NOTES	BNY MELLON	10/31/2023	5,975,000.00	11/01/2021	5,957,961.91	0.519%	91282CDD0
US TREASURY NOTES	BNY MELLON	11/15/2023	5,065,000.00	12/01/2020	5,068,759.18	0.225%	91282CAW1
US TREASURY NOTES	BNY MELLON	12/15/2023	2,700,000.00	01/07/2021	2,693,144.53	0.212%	91282CBA8
US TREASURY NOTES	BNY MELLON	01/15/2024	1,500,000.00	02/02/2021	1,497,656.25	0.178%	91282CBE0
US TREASURY NOTES	BNY MELLON	02/15/2024	2,950,000.00	03/01/2021	2,937,208.98	0.272%	91282CBM2
US TREASURY NOTES	BNY MELLON	03/15/2024	3,500,000.00	03/11/2021	3,492,207.03	0.325%	91282CBR1
US TREASURY NOTES	BNY MELLON	03/15/2024	2,450,000.00	03/31/2021	2,443,970.70	0.334%	91282CBR1
US TREASURY NOTES	BNY MELLON	04/15/2024	2,500,000.00	04/22/2021	2,503,320.31	0.330%	91282CBV2
US TREASURY NOTES	BNY MELLON	04/15/2024	2,750,000.00	04/27/2021	2,752,041.02	0.350%	91282CBV2
US TREASURY NOTES	BNY MELLON	04/30/2024	4,500,000.00	04/05/2021	4,717,792.97	0.409%	912828X70
US TREASURY NOTES	BNY MELLON	06/15/2024	5,000,000.00	06/14/2021	4,987,304.69	0.335%	91282CCG4

**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
INVESTMENT SUMMARY  
JULY 31, 2022**

INVESTMENT DESCRIPTION	INSTITUTION	MATURITY DATE	PAR VALUE	ISSUE DATE	PURCHASE PRICE	BOOK YIELD RATE	CUSIP
US TREASURY NOTES	BNY MELLON	06/15/2024	3,450,000.00	06/28/2021	3,428,033.20	0.467%	91282CCG4
US TREASURY NOTES	BNY MELLON	06/15/2024	3,000,000.00	07/01/2021	2,980,546.88	0.472%	91282CCG4
US TREASURY NOTES	BNY MELLON	07/15/2024	6,000,000.00	08/04/2021	6,006,562.50	0.337%	91282CCL3
US TREASURY NOTES	BNY MELLON	07/15/2024	1,375,000.00	08/05/2021	1,374,838.87	0.379%	91282CCL3
US TREASURY NOTES	BNY MELLON	07/15/2024	1,400,000.00	08/10/2021	1,397,429.69	0.438%	91282CCL3
US TREASURY NOTES	BNY MELLON	08/15/2024	3,000,000.00	08/19/2021	2,995,195.31	0.429%	91282CCT6
US TREASURY NOTES	BNY MELLON	08/15/2024	6,000,000.00	09/01/2021	5,993,437.50	0.412%	91282CCT6
US TREASURY NOTES	BNY MELLON	08/31/2024	3,000,000.00	05/03/2021	3,081,328.13	0.428%	912828YE4
US TREASURY NOTES	BNY MELLON	09/15/2024	4,200,000.00	09/16/2021	4,189,335.94	0.461%	91282CCX7
US TREASURY NOTES	BNY MELLON	09/15/2024	3,000,000.00	09/22/2021	2,992,382.81	0.461%	91282CCX7
US TREASURY NOTES	BNY MELLON	09/15/2024	3,000,000.00	10/04/2021	2,988,164.06	0.510%	91282CCX7
US TREASURY NOTES	BNY MELLON	10/15/2024	3,000,000.00	11/01/2021	2,985,234.38	0.794%	91282CDB4
US TREASURY NOTES	BNY MELLON	10/31/2024	2,750,000.00	05/04/2021	2,850,009.77	0.447%	912828YM6
US TREASURY NOTES	BNY MELLON	11/15/2024	6,000,000.00	12/02/2021	5,972,109.38	0.911%	91282CDH1
US TREASURY NOTES	BNY MELLON	11/15/2024	3,000,000.00	12/07/2021	2,982,070.31	0.957%	91282CDH1
US TREASURY NOTES	BNY MELLON	11/30/2024	2,625,000.00	06/02/2021	2,722,207.03	0.427%	912828YV6
US TREASURY NOTES	BNY MELLON	11/30/2024	2,750,000.00	06/03/2021	2,848,720.70	0.458%	912828YV6
US TREASURY NOTES	BNY MELLON	11/30/2024	5,000,000.00	06/14/2021	5,188,226.56	0.437%	912828YV6
US TREASURY NOTES	BNY MELLON	12/15/2024	2,000,000.00	12/22/2021	2,002,812.50	0.952%	91282CDN8
US TREASURY NOTES	BNY MELLON	12/15/2024	3,000,000.00	12/28/2021	3,002,578.13	0.970%	91282CDN8
US TREASURY NOTES	BNY MELLON	12/15/2024	2,950,000.00	01/03/2022	2,947,810.55	1.026%	91282CDN8
US TREASURY NOTES	BNY MELLON	02/15/2025	2,950,000.00	02/11/2022	2,922,343.75	1.823%	91282CDZ1
US TREASURY NOTES	BNY MELLON	03/15/2025	3,000,000.00	04/01/2022	2,926,523.44	2.621%	91282CED9
US TREASURY NOTES	BNY MELLON	04/30/2025	4,750,000.00	05/04/2022	4,733,115.23	3.000%	9128284M9
US TREASURY NOTES	BNY MELLON	04/30/2025	1,450,000.00	05/04/2022	1,445,525.39	2.984%	9128284M9
US TREASURY NOTES	BNY MELLON	05/15/2025	8,750,000.00	06/01/2022	8,723,339.84	2.858%	91282CEQ0
US TREASURY NOTES	BNY MELLON	06/15/2025	2,900,000.00	07/06/2022	2,896,261.72	2.921%	91282CEU1
FIDELITY GOVERNMENT	BNY MELLON		78,922.65		78,922.65	0.050%	
LOCAL AGENCY INVESTMENT FUND	LAIF	DAILY	68,840,799.82		68,840,799.82	1.090%	AT 7/31/22
CAMP	CAMP	DAILY	94,515,790.65		94,515,790.65	1.640%	AT 7/31/22
			<u>462,275,513.12</u>		<u>463,160,636.69</u>		
<b><u>DEVIL CANYON / CASTAIC FUND</u></b>							
LOCAL AGENCY INVESTMENT FUND	LAIF	DAILY	<u>4,608,846.86</u>		<u>4,608,846.86</u>	1.090%	AT 7/31/22
<b><u>GENERAL FUND</u></b>							
AGENCY BONDS - FNMA NOTES	BNY MELLON	04/20/2023	2,140,000.00	04/17/2020	2,134,650.00	0.459%	3137EAEQ8
AGENCY BONDS - FNMA NOTES	BNY MELLON	05/05/2023	2,025,000.00	05/05/2020	2,024,149.50	0.389%	3137EAER6
AGENCY BONDS - FNMA NOTES	BNY MELLON	05/22/2023	2,345,000.00	05/20/2020	2,337,941.55	0.351%	3135G04Q3
AGENCY BONDS - FNMA NOTES	BNY MELLON	06/26/2023	2,125,000.00	06/24/2020	2,118,795.00	0.348%	3137EAES4
AGENCY BONDS - FNMA NOTES	BNY MELLON	07/10/2023	2,225,000.00	07/08/2020	2,220,216.25	0.322%	3135G05G4
AGENCY BONDS - FNMA NOTES	BNY MELLON	07/10/2023	600,000.00	10/07/2020	599,862.00	0.258%	3135G05G4
AGENCY BONDS - FNMA NOTES	BNY MELLON	08/24/2023	2,200,000.00	08/19/2020	2,197,756.00	0.284%	3137EAEV7
AGENCY BONDS - FNMA NOTES	BNY MELLON	10/16/2023	825,000.00	10/14/2020	821,922.75	0.250%	3137EAEY1
AGENCY BONDS - FNMA NOTES	BNY MELLON	11/06/2023	2,365,000.00	11/03/2020	2,362,871.50	0.280%	3137EAEZ8
AGENCY BONDS - FNMA NOTES	BNY MELLON	11/27/2023	300,000.00	11/23/2020	299,658.00	0.288%	3135G06H1
AGENCY BONDS - FNMA NOTES	BNY MELLON	12/04/2023	1,950,000.00	12/02/2020	1,948,069.50	0.283%	3137EAF22
AGENCY BONDS - FNMA NOTES	BNY MELLON	08/01/2025	650,000.00	07/29/2022	650,000.00	3.600%	3134GXM35
CERTIFICATE OF DEPOSIT	BNY MELLON	12/02/2022	1,125,000.00	12/04/2019	1,125,000.00	2.040%	23341VZT1
CERTIFICATE OF DEPOSIT	BNY MELLON	03/17/2023	885,000.00	03/19/2021	885,000.00	0.590%	22552G3C2
CORPORATE NOTE	BNY MELLON	02/01/2023	130,000.00	01/22/2020	129,821.90	1.747%	00724PAA7
CORPORATE NOTE	BNY MELLON	02/01/2023	125,000.00	01/23/2020	125,010.00	1.697%	00724PAA7
CORPORATE NOTE	BNY MELLON	05/11/2023	550,000.00	05/04/2020	548,504.00	0.842%	037833DV9
CORPORATE NOTE	BNY MELLON	05/11/2023	255,000.00	05/07/2020	255,000.00	1.141%	166764BV1
CORPORATE NOTE	BNY MELLON	06/03/2023	600,000.00	06/01/2020	599,160.00	0.447%	023135BP0
CORPORATE NOTE	BNY MELLON	06/08/2023	115,000.00	06/01/2020	114,840.15	0.847%	69371RQ82
CORPORATE NOTE	BNY MELLON	06/26/2023	350,000.00	06/09/2020	378,609.00	0.608%	931142EK5
CORPORATE NOTE	BNY MELLON	08/11/2023	100,000.00	08/04/2020	99,869.00	0.394%	69371RQ90
CORPORATE NOTE	BNY MELLON	08/11/2023	135,000.00	08/10/2020	135,000.00	0.426%	166756AJ5
CORPORATE NOTE	BNY MELLON	09/14/2023	150,000.00	09/08/2020	149,808.00	0.418%	904764BJ5
CORPORATE NOTE	BNY MELLON	09/14/2023	250,000.00	09/09/2020	249,830.00	0.473%	14913R2F3

**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
INVESTMENT SUMMARY  
JULY 31, 2022**

INVESTMENT DESCRIPTION	INSTITUTION	MATURITY DATE	PAR VALUE	ISSUE DATE	PURCHASE PRICE	BOOK YIELD RATE	CUSIP
CORPORATE NOTE	BNY MELLON	11/13/2023	545,000.00	11/09/2020	545,000.00	0.537%	110122DT2
CORPORATE NOTE	BNY MELLON	11/17/2023	425,000.00	11/16/2020	425,000.00	0.627%	38141GXL3
CORPORATE NOTE	BNY MELLON	01/10/2024	170,000.00	01/03/2022	169,972.80	0.958%	14913R2S5
CORPORATE NOTE	BNY MELLON	01/11/2024	550,000.00	01/06/2021	549,967.00	0.452%	89236THU2
CORPORATE NOTE	BNY MELLON	01/17/2024	240,000.00	03/01/2021	239,829.60	0.475%	24422EVN6
CORPORATE NOTE	BNY MELLON	01/25/2024	675,000.00	01/20/2021	675,000.00	0.529%	6174468W2
CORPORATE NOTE	BNY MELLON	02/08/2024	255,000.00	02/01/2021	254,824.05	0.373%	63743HEU2
CORPORATE NOTE	BNY MELLON	03/05/2024	500,000.00	09/24/2020	532,130.00	0.878%	06051GHF9
CORPORATE NOTE	BNY MELLON	03/08/2024	465,000.00	03/03/2022	465,000.00	1.882%	771196BU5
CORPORATE NOTE	BNY MELLON	03/16/2024	400,000.00	03/09/2021	400,000.00	0.697%	46647PBZ8
CORPORATE NOTE	BNY MELLON	03/18/2024	360,000.00	03/16/2021	359,820.00	0.767%	808513BN4
CORPORATE NOTE	BNY MELLON	04/15/2024	275,000.00	05/07/2020	301,287.25	1.151%	20030NCR0
CORPORATE NOTE	BNY MELLON	05/12/2024	840,000.00	05/10/2021	838,773.60	0.499%	023135BW5
CORPORATE NOTE	BNY MELLON	05/15/2024	395,000.00	05/17/2021	394,589.20	0.585%	91324PEB4
CORPORATE NOTE	BNY MELLON	05/24/2024	490,000.00	05/17/2022	489,980.40	3.752%	40428HTA0
CORPORATE NOTE	BNY MELLON	05/28/2024	550,000.00	05/25/2021	549,950.50	0.703%	04636NAC7
CORPORATE NOTE	BNY MELLON	06/01/2024	250,000.00	05/19/2020	250,000.00	1.514%	46647PBQ8
CORPORATE NOTE	BNY MELLON	06/07/2024	185,000.00	06/07/2021	184,768.75	0.492%	24422EVQ9
CORPORATE NOTE	BNY MELLON	08/09/2024	210,000.00	08/03/2021	209,886.60	0.518%	69371RR40
CORPORATE NOTE	BNY MELLON	08/09/2024	385,000.00	09/07/2021	384,745.90	0.773%	02665WDY4
CORPORATE NOTE	BNY MELLON	08/12/2024	240,000.00	08/09/2021	239,978.40	0.753%	05565EBU8
CORPORATE NOTE	BNY MELLON	08/12/2024	185,000.00	08/09/2021	185,000.00	0.626%	904764BN6
CORPORATE NOTE	BNY MELLON	09/10/2024	80,000.00	09/07/2021	79,948.00	0.647%	24422EVU0
CORPORATE NOTE	BNY MELLON	09/14/2024	850,000.00	09/07/2021	850,000.00	0.606%	641062AU8
CORPORATE NOTE	BNY MELLON	09/16/2024	355,000.00	09/09/2020	355,000.00	0.653%	46647PBS4
CORPORATE NOTE	BNY MELLON	10/24/2024	500,000.00	10/16/2020	500,000.00	0.810%	06051GJH3
CORPORATE NOTE	BNY MELLON	10/25/2024	310,000.00	10/20/2021	309,798.50	0.872%	06406RAX5
CORPORATE NOTE	BNY MELLON	10/30/2024	250,000.00	10/23/2020	250,000.00	0.776%	172967MT5
CORPORATE NOTE	BNY MELLON	01/10/2025	80,000.00	01/04/2022	79,962.40	1.266%	24422EVY2
CORPORATE NOTE	BNY MELLON	01/10/2025	375,000.00	01/06/2022	373,852.50	1.480%	21688AAS1
CORPORATE NOTE	BNY MELLON	01/13/2025	250,000.00	01/11/2022	249,802.50	1.527%	02665WEA5
CORPORATE NOTE	BNY MELLON	02/10/2025	220,000.00	03/08/2021	234,344.00	0.937%	58933YAR6
CORPORATE NOTE	BNY MELLON	02/16/2025	120,000.00	02/09/2021	120,000.00	0.563%	46647PBY1
CORPORATE NOTE	BNY MELLON	03/04/2025	140,000.00	03/01/2022	139,858.60	2.285%	025816CQ0
CORPORATE NOTE	BNY MELLON	04/01/2025	120,000.00	03/28/2022	119,887.20	3.283%	05565EBZ7
CORPORATE NOTE	BNY MELLON	04/15/2025	50,000.00	03/24/2022	49,912.50	2.760%	437076CM2
CORPORATE NOTE	BNY MELLON	04/24/2025	325,000.00	03/04/2021	334,249.50	0.882%	06406RAN7
CORPORATE NOTE	BNY MELLON	05/01/2025	310,000.00	04/27/2021	310,000.00	0.981%	172967MX6
CORPORATE NOTE	BNY MELLON	06/01/2025	340,000.00	05/24/2021	340,000.00	0.824%	46647PCH7
CORPORATE NOTE	BNY MELLON	07/27/2025	485,000.00	07/20/2022	485,000.00	4.000%	459200KS9
CORPORATE NOTE	BNY MELLON	11/03/2025	205,000.00	10/27/2021	205,000.00	1.281%	172967ND9
CORPORATE NOTE	BNY MELLON	02/06/2026	75,000.00	02/02/2022	75,000.00	1.746%	857477BR3
CORPORATE NOTE	BNY MELLON	03/30/2026	200,000.00	02/17/2022	204,026.00	2.226%	857477BM4
CORPORATE NOTE	BNY MELLON	07/28/2026	140,000.00	07/25/2022	140,000.00	4.263%	89788MAH5
MUNICIPAL BOND / NOTE	BNY MELLON	12/01/2022	170,000.00	07/30/2020	170,000.00	0.349%	13067WQZ8
MUNICIPAL BOND / NOTE	BNY MELLON	03/15/2023	265,000.00	12/16/2020	265,000.00	0.480%	650036DR4
MUNICIPAL BOND / NOTE	BNY MELLON	07/01/2023	65,000.00	05/29/2020	65,388.05	1.798%	20772KJV2
MUNICIPAL BOND / NOTE	BNY MELLON	08/01/2023	625,000.00	07/23/2020	625,000.00	0.410%	574193TP3
MUNICIPAL BOND / NOTE	BNY MELLON	08/01/2023	435,000.00	10/16/2020	435,000.00	0.499%	798306WM4
MUNICIPAL BOND / NOTE	BNY MELLON	08/01/2023	220,000.00	10/30/2020	220,000.00	0.444%	54438CYH9
MUNICIPAL BOND / NOTE	BNY MELLON	11/01/2023	275,000.00	07/24/2020	275,000.00	0.422%	605581MY0
MUNICIPAL BOND / NOTE	BNY MELLON	12/01/2023	75,000.00	07/30/2020	75,000.00	0.414%	13067WRA2
MUNICIPAL BOND / NOTE	BNY MELLON	03/15/2024	800,000.00	12/16/2020	800,000.00	0.620%	650036DS2
MUNICIPAL BOND / NOTE	BNY MELLON	01/01/2025	240,000.00	01/22/2021	240,000.00	0.897%	646140DN0
MUNICIPAL BOND / NOTE	BNY MELLON	07/01/2025	295,000.00	09/03/2020	295,000.00	1.258%	341271AD6
US TREASURY NOTES	BNY MELLON	01/31/2023	725,000.00	12/26/2019	726,897.46	1.663%	912828P38
US TREASURY NOTES	BNY MELLON	01/31/2023	2,400,000.00	01/02/2020	2,409,843.75	1.612%	912828P38
US TREASURY NOTES	BNY MELLON	03/31/2023	1,200,000.00	04/15/2021	1,199,296.88	0.155%	91282CBU4
US TREASURY NOTES	BNY MELLON	05/15/2023	1,650,000.00	06/03/2020	1,644,070.31	0.248%	912828ZP8
US TREASURY NOTES	BNY MELLON	09/30/2023	1,600,000.00	10/04/2021	1,599,187.50	0.276%	91282CDA6
US TREASURY NOTES	BNY MELLON	10/15/2023	1,000,000.00	10/08/2020	998,085.94	0.189%	91282CAP6
US TREASURY NOTES	BNY MELLON	11/15/2023	2,365,000.00	12/01/2020	2,366,755.27	0.225%	91282CAW1
US TREASURY NOTES	BNY MELLON	12/15/2023	1,200,000.00	01/07/2021	1,196,953.13	0.212%	91282CBA8



**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT  
INVESTMENT SUMMARY  
JULY 31, 2022**

INVESTMENT DESCRIPTION	INSTITUTION	MATURITY DATE	PAR VALUE	ISSUE DATE	PURCHASE PRICE	BOOK YIELD RATE	CUSIP
US TREASURY NOTES	BNY MELLON	03/15/2024	2,000,000.00	03/11/2021	1,995,546.88	0.325%	91282CBR1
US TREASURY NOTES	BNY MELLON	04/15/2024	575,000.00	04/22/2021	575,763.67	0.330%	91282CBV2
US TREASURY NOTES	BNY MELLON	04/15/2024	850,000.00	04/27/2021	850,630.86	0.350%	91282CBV2
US TREASURY NOTES	BNY MELLON	08/15/2024	1,200,000.00	08/19/2021	1,198,078.13	0.429%	91282CCT6
US TREASURY NOTES	BNY MELLON	08/15/2024	2,375,000.00	09/01/2021	2,372,402.34	0.412%	91282CCT6
US TREASURY NOTES	BNY MELLON	10/31/2024	1,200,000.00	05/04/2021	1,243,640.63	0.447%	912828YM6
US TREASURY NOTES	BNY MELLON	11/15/2024	1,000,000.00	12/02/2021	995,351.56	0.911%	91282CDH1
US TREASURY NOTES	BNY MELLON	11/15/2024	900,000.00	12/07/2021	894,621.09	0.957%	91282CDH1
US TREASURY NOTES	BNY MELLON	11/30/2024	1,125,000.00	06/02/2021	1,166,660.16	0.427%	912828YV6
US TREASURY NOTES	BNY MELLON	11/30/2024	1,200,000.00	06/03/2021	1,243,078.13	0.458%	912828YV6
US TREASURY NOTES	BNY MELLON	12/15/2024	1,225,000.00	12/22/2021	1,226,722.66	0.952%	91282CDN8
US TREASURY NOTES	BNY MELLON	12/15/2024	875,000.00	01/03/2022	874,350.59	1.026%	91282CDN8
FIDELITY GOVERNMENT	BNY MELLON		45,125.13		45,125.13	0.050%	
LOCAL AGENCY INVESTMENT FUND	LAIF	DAILY	1,324,580.90		1,324,580.90	1.090%	AT 7/31/22
CAMP	CAMP	DAILY	10,669,527.11		10,669,527.11	1.640%	AT 7/31/22
			<u>81,059,233.14</u>		<u>81,245,047.98</u>		

ALL INVESTMENTS LISTED ON THIS MONTHLY INVESTMENT SUMMARY AND HELD BY SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT ARE IN COMPLIANCE WITH THE DISTRICT'S INVESTMENT POLICY.

THE DISTRICT CAN MEET ITS EXPENDITURE REQUIREMENTS FOR THE NEXT SIX MONTHS.

*Cindy Saks*  
CFO / DEPUTY GENERAL MANAGER



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**DATE:** August 16, 2022  
**TO:** Board of Directors  
**FROM:** Staff  
**SUBJECT:** Summary of Board of Directors Tres Lagos Master Plan Workshop – July 27, 2022

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The Board of Directors Workshop convened on July 27, 2022 at the Yucaipa Valley Golf Club and Pavilion, 33725 Chapman Heights Road, Yucaipa, CA. President Kielhold chaired the meeting.

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

Staff Present:

Heather Dyer, MS, MBA – Chief Executive Officer/General Manager  
Joanna Gibson, MS – Executive Director Upper SAR Habitat Conservation Program  
Wen B. Huang, PE, MS – Chief Engineer/Deputy General Manager  
Jose Macedo, ML, CPT-P (USA Retired) – Chief of Staff /Clerk of the Board  
Cindy Saks, CPA – Deputy General Manager/Chief Financial Officer  
Bob Tinchler, PE, MS – Deputy General Manager/Chief Water Resources Officer  
Melissa Zoba, MBA, MPA – Chief Information Officer

Anthony Flordelis – Business Systems Analyst  
Kristeen Farlow, MPA – Strategic Communications Manager  
Adekunle Ojo, MPA – Water Resources Manager  
Karen Resendez, MAOL - Human Resources/Risk Manager  
Shavonne Turner, MPA – Water Conservation Program Manager

Olivia Ramirez, SBVMWD intern

Members of the Public Attending in Person:

Rick Barrett, MIG	James Morales, East Valley Municipal Water District
Chris Beynon, MIG	Ron Coats, East Valley Municipal Water District
Steve Stockton	George Hanson, Bear Valley Mutual Water Company
Hannah Jugar, CSUSB student	Larry Mainez, City of Highland
Xavina Walbert CSUSB student	

Members of the Public Attending via Teleconference:

Alexa Flores	Chris Mann, Yucaipa Valley Water District
Mark Adelson	Devin Arciniega, San Bernardino Municipal Water Department
Carlos Zamano	Joyce McIntire, Yucaipa Valley Water District
Jennifer Alford, CSUSB	Linda Jadeski, West Valley Water District
Kim Stater, City of Highland	Sam Fuller, Bear Valley Mutual Water Company
Madison Aument	Samantha Stilwell – San Manuel Band of Mission Indians
Robin Ohama	Katelyn Scholte, SB Valley Water Conservation District
Milan Mitrovich - SB Valley Water Conservation District	

**1. Introductions.**

None.

**2. Public Comment.**

President Kielhold invited public comment. There was none.

**3.1 Tres Lagos Property Visioning Workshop**

Chris Beynon and Rick Barrett of MIG explained the purpose of a master plan and outlined the activities of the workshop.

Mr. Barrett and Mr. Beynon provided an overview of other project master plans to demonstrate sample components. Mr. Beynon emphasized the importance of community input. Director Botello concurred. Director Longville commented that this is the boldest thing that Valley District has done since a prior unsuccessful project, and this can only be happening now because of the way the District has evolved. She noted the ability of

the District to accomplish the project and said the community is beginning to recognize the challenges faced. This can be transformational, she stated.

The momentum is good, Mr. Barrett stated. Director Longville added that Valley District cares not only about water supply but about protecting the water supply and thinks in terms of partnerships. Mr. Beynon added the most successful master plans are those that engage as many interested parties as possible. Director Longville emphasized the plan should be able to be monitored and documented and show value for investment.

President Kielhold indicated that he did not feel that everyone's ideas about Valley District have reformed. To overcome the past, the District now needs to be able to explain why this project can be accomplished, he said. He emphasized establishing consistency in goals and objectives prior to planning. Director Botello posited that this is a natural outcome of the Strategic Plan and said he is steadfast about creating a District for the entire valley.

President Kielhold pointed to the values in the Strategic Plan and noted that the mission is very direct. The project must demonstrate and be justified through the mission how it meets that objective; it cannot just be stated that the project creates value. Director Longville agreed this project must enhance the strategic objective and add value. She emphasized the need for partners in the project and said she is optimistic although there will be opponents.

Vice President Hayes noted that President Kielhold drew attention to why the District was created, with the primary job of water supply. To enhance that primary job includes environmental, if for no other reason than water supply projects cannot be done without it. However, this does not mean that all Valley District constituents will not question why the property was purchased, and there is much to be done in terms of education, she cautioned. She recommended staying within the mission, communicating, and educating people, gathering partners, collaborating, and working on win-win situations.

Mr. Beynon invited public comment.

Ms. Joyce McIntire assured there are many people who care about the wildlife, the water, the open spaces, and the trails. She said the District is on the right track and it is fabulous this land was saved from the potential building of 3,600 homes. There is a lot of history there, she added. The District needs goals, objectives, vision, and a mission statement, and to try to keep the site as natural as possible with historical information for people to

enjoy. She noted that there are several things that can be done for water and suggested capturing the runoff in basins.

Chief of Staff /Clerk of the Board Jose Macedo read a comment from Dr. Jennifer Alford. She wrote that she sees many opportunities to demonstrate and design best management practices at this site for conservation of essential habitat, learning for students as a part of career pathways.

Chief Executive Officer/General Manager Heather Dyer reviewed the pragmatic reason for purchase of the property: hundreds of acres of habitat mitigation land for the San Bernardino kangaroo rat at a price of \$20,000 per acre. Mitigation is needed for more than 100 water supply projects to be permitted through the Upper Santa Ana River Habitat Conservation Plan (HCP), and this property is directly supporting future water infrastructure projects, she explained.

Ms. Dyer reminded that Valley District, as structured, has limited revenue into the general fund; most is restricted to use for State Water Project costs. This constrains the District when there is need to build local infrastructure. The Tres Lagos property also offers the ability to sell any additional habitat that is not needed by Valley District at market prices, in order to generate revenue for building water supply projects. The strategic reason for the acquisition of this property is directly tied to water supply projects for the future, she stated. The habitat value must be maintained long term for the District to be able to use and sell those credits. Anything done on the property such as trails must fit into the overarching goal of mitigating impacts for the HCP and generating revenue to build local water supply projects.

President Kielhold pointed out that the property was purchased at auction and consists of 1,657 acres as offered by the seller.

Executive Director of the Upper SAR Habitat Conservation Program Joanna Gibson described the property features and shared her vision from an environmental perspective. She highlighted that there are three population areas of San Bernardino kangaroo rat (SBKR) remaining in the wild, that the property supports critical habitat (a US Fish and Wildlife Service designation) for SBKR and explained that mitigation for project impacts must be done in the same population area where the impact occurs. She noted that there are two mitigation banks, both occurring in Lytle/Cajon Creeks (one of the three remaining SBKR population areas), but only one is approved by both wildlife agencies. There are

no mitigation banks in the Santa Ana River SBKR population area and there is little land available. Ms. Dyer clarified that this land will be used for Valley District mitigation at a tenth of the cost of what had previously been spent. Land in excess of Valley District's needs becomes available for the District to sell, she noted.

In response to Director Longville, Ms. Gibson explained that it would not be unlikely for the Wildlife Agencies to require a ratio of 5 to 1 (mitigation to impact): that a permit for a project that impacts one acre of land on which the San Bernardino kangaroo rat is present may require conservation in perpetuity of an offset of five-acres where the species is present. Land acquisition, habitat restoration, and long-term management of the property are attendant costs, she stated, along with a conservation easement held by a qualified entity.

Ms. Gibson detailed three areas to be reserved for the HCP and explained the potential for mitigation bank revenue. She further explained the requirements for mitigation lands, opportunity for sale of mitigation credits, and the value of the Tres Lagos property.

Chief Engineer/Deputy General Manager Wen Huang explained staff also evaluated the property for possible future water infrastructure. He detailed existing facilities on the site including the Tres Lagos Mutual Water Company system. There are some constraints, but also opportunities given the existing facilities which can be tied into future infrastructure, he said. Mr. Huang noted the advantage of the property spanning from 1,750 to 2,950-foot elevation for siting two potential reservoirs at 1,930-ft and 2,310-ft elevations, respectively, to coincide with some existing reservoirs within Valley District's conveyance system and for stormwater capture. The elevation difference may also be used to generate power, he posited.

Director Longville pointed out that the area is windy and may be suitable for wind power generation.

Ms. Dyer asked if it would be possible to take Santa Ana River water from the dam that has algae and sediment and let it settle out before it goes to the treatment plants; Mr. Huang said the land would potentially be usable for storage after the water past through an existing sedimentation basin and explained options for movement of water.

In response to Director Longville, Mr. Huang noted that Ms. Dyer had reached out to the community and the tribes regarding history of the area. Ms. Dyer recalled some history of the site, including a reference to Sunrise Ranch, and said she is still investigating.

Mr. Steve Stockton noted the site has also been referred to as the Greenspot area, as the original Greenspot pipeline crossed Mill Creek where impervious materials brought groundwater to the surface and created a green spot.

Mr. Huang reminded that Orange County Water District (OCWD) originally bought the property to use for mining materials for the building of the Seven Oaks Dam, and the impervious materials can be used for lining material for the future reservoirs. To build a new reservoir in habitat like this would be very cost prohibitive if it had not already been impacted, Ms. Dyer added. In addition, when the material was mined, a large hole was left, which can be used to place the material generated by building of the reservoir to save costs.

Also under consideration is use of the Bear Valley pipeline to fill the reservoir at a higher elevation, Mr. Huang added.

Ms. Gibson shared the conceptual trail system plan. She noted the property is easy to access and said that responsible recreation will be important, and the District must be strategic about where access is provided. Hiking, mountain biking (if done responsibly without encroachment into habitat), and equestrian use would all be compatible, she noted. She noted that a trail system connecting to adjacent sensitive habitat (located outside, but adjacent to the property) would raise concerns with the wildlife agencies (these concerns were raised by the Wildlife Agencies in their comment letters on the Harmony EIR). Ms. Gibson assured Vice President Hayes that this would exclude motorized vehicles.

The property also provides opportunity for educational outreach at a nature center, collaboration with Cal Fire, and university research projects on restoration methodologies, Ms. Gibson added.

Ms. Gibson responded to a question about mitigation associated with development projects, saying it is best to have mitigation set aside ahead of the impacts to avoid temporal losses.

Larry Mainez, Community Development Director of the City of Highland, advised the trail map shown is a policy document. He said there is a very active Trails Committee, and said he hoped for partnership and continuance of the Trails Day events previously held with OCWD owned the property. He also noted that the site has been referred to as the Seven Oaks area. Director Longville said it will be important to work with the National

Forest Service to reduce wildfire risk. She would like to see as part of the master plan how to work with the City of Highland from a climate resiliency and safety perspective. Mr. Mainez agreed and pointed to the wildland interface. In response to Director Harrison, he noted that the City contracts with San Bernardino County Sheriff for police services, and with Cal Fire for fire protection services.

Mr. Macedo shared a written comment from Dr. Jennifer Alford, who wrote that she appreciates Valley District allowing Cal State to participate, and she sees a high value in landscape planning and related projects and looks forward to continuing the established relationship with Valley District to bridge interdisciplinary and innovative activities.

Mr. Barrett guided the Board through brainstorming and visioning. Concepts discussed were:

- Purpose of the land
  - Diversification of water portfolio
  - Generation of revenue to fund local water supply projects
  - Determine the value of the property and for how much it could be sold
  - Climate resiliency
- New Valley District headquarters facility
  - A new building to bring together all staff in one place, as current location has been outgrown and is not as safe
  - Location of the headquarters on Tres Lagos site would decrease the intensity of maintenance and allow better monitoring of activity on the property
  - Include solar panels
  - Location of headquarters building near the reservoir to provide an open water barrier to wildfire
  - Building design could incorporate the blue line stream as a feature
  - Need good ingress / egress – will need another access point from Highway 38
- Partnership with Cal Fire
  - Training facility
  - Access for firefighting helicopters to onboard water from the reservoir
- Education Center co-located with headquarters
  - Available for public access when appropriate



- Convey the importance of healthy headwaters and prevention of catastrophic wildfire
- Ambassador animals / wildlife rehab / hatchery / adopt-an-animal program
- Native plant nursery
- Interactive education / career introduction / community engagement
- Discovery center / museum with exhibits for school trips
- Glass case display of the San Bernardino Basin, with running water to demonstrate recharge (potential for partnership with ESRI)
- Re-create the watershed as a children's play area
- Urban camping (kids' camp)
- Solar Challenge
- Drought tolerant demonstration garden
- Site maintenance and security
  - Use of existing roads – modify for fire and patrol vehicles.
  - Patrols to minimize illegal dumping, trespassing, and other undesirable activities
  - Reach out to homeowners in the area to determine how to make the road more secure
  - Responsible presence on the property: volunteer / ombudsman / docent on site
  - Potential use of an adjacent 30-acre property that was previously for sale as an alternate emergency access route, due to fire concern
  - Reduction of wildfire risk
- Recreation
  - Trails: Hiking, mountain biking, non-motorized vehicles, equestrian
- Communication
  - Convey importance and how the water system works: Groundwater basin, Santa Ana River, State Water Project, watershed
  - Celebrate the connectedness of all regional agencies and partners
  - Communication of brand and identity – importance of the agency / everyday impact (elevate awareness and identity)

Mr. Barrett invited public comment.

Ms. McIntire suggested garnering ideas from an existing educational program of the San Geronio Wilderness Association from Mill Creek Ranger Station.

Mr. Macedo read a written comment from Milan Mitrovich, Land Resources Manager of the San Bernardino Valley Water Conservation District who stated the property is uniquely positioned, distinct, and its potential is unlike anywhere else in Southern California. It looks like it will become a community resource for the population and Valley District should be able to take pride in for generations to come.

Strategic Communications Manager Kristeen Farlow assured that with the near completion of the Strategic Communications and Engagement Plan and current branding activity, this project will dovetail with that effort.

Mr. Beynon recapped the prior discussion and concepts presented, the top priority being the provision of water supply. He emphasized regional partnerships and potential for co-location, and opportunities to provide education and innovation. He pointed out the need to be able to measure success.

Director Longville indicated the Board needs to better understand the existing infrastructure on the property and the site geology.

Ms. Dyer stated there needs to be a tie between habitat mitigation and water supply infrastructure. She encouraged development of a concise explanation of why the District purchased the land. Vice President Hayes, Directors Longville and Director Harrison expanded on the explanation.

Mr. Beynon invited public comment. There was none. He led the Board in an exercise to identify potential stakeholder – partners. The list includes but is not limited to:

- Cal Fire
- Inland Empire Resource Conservation District
- Cal State San Bernardino
- University of Redlands
- San Bernardino Valley College
- Crafton Hills College
- University of California Riverside Division of Agriculture and Natural Resources
  - UC extension facilities

- Cal Poly Pomona Center for Regenerative Studies
  - soil restoration
- ESRI
- Local land planning agencies
- Fire safety and access roads (ingress from Highway 38)
- Corporate sponsorships / venture capital
- San Bernardino Valley Water Conservation District
- Bear Valley Mutual Water Company
- East Valley Water District and other water agencies
  - Treatment facilities
  - Reservoirs
  - Emergency supplies
- City of Redlands
- US Forest Service
- Climate adaptation (monetize)
- Organic recycling / biosolids
- Renewable energy
- Greenhouse gas reduction

These agencies already have interest:

- San Manuel Band of Mission Indians
  - Cultural Resources
  - Wildfire prevention
  - Protection of headwaters
- Land trusts in the San Bernardino Mountains
- Wilderness Association
- Crafton Hills Open Space
- Open Space Foundation
  - Investment in design of open space areas to connect wilderness areas
- County of San Bernardino Fire Department
  - Inter-agency training center

Vice President Hayes recommended reaching out to Ms. Wendy Rea of the Greenspot Residents Association, a highly knowledgeable local property owner. Ms. Dyer assured she had been invited.

Ms. Dyer explained that Steve Stockton is working with the University of Redlands and other nonprofit groups to try to restore the historic Mill Creek Zanja preserve irrigation system.

Ms. Dyer reminded that one of the primary drivers of this effort is the need to generate revenue to enable the District to fund local water projects. Staff is working with a developer who is interested in putting together a package of needed mitigation credits for a development in the area, she advised. In response to President Kielhold, Ms. Dyer noted there are some areas that require rehabilitation, and it takes a while to get them to their success criteria, but this can be done on the same mitigation timeline as the development in order to satisfy the credit need.

Mr. Macedo read a comment from Mark Adelson, who wrote that there are certainly active earthquake faults on or near the site, which places constraints on how and which structures can be built there. Mr. Beynon acknowledged this would impact any vision for the site. Director Botello pointed to the blueline streams and reminded that Richard Corneille of the San Bernardino Valley Water Conservation District had identified opportunity for partnership. Vice President Hayes suggested assessment of recharge ability and potential for liquefaction. Mr. Huang acknowledged that additional investigation is probably warranted. He noted that some areas are already designated for kangaroo rat conservation. Ms. Dyer noted that water can be captured and sent directly for water supply, without using for recharge. Mr. Huang explained potential for additional infrastructure.

In response to Vice President Hayes, Mr. Beynon emphasized leveraging public – private partnerships. Mr. Barrett added that California is favoring funding conservation, restoration, and certain water projects.

Mr. Beynon pointed out the challenges of transportation / transit infrastructure and access to the site, noting the emphasis on sustainability, best practices, and innovation for the headquarters.

Director Botello reiterated that the big question for the public is why the land was purchased and suggested a one-page quarterly electronic newsletter to follow the project

and explain mitigation. Ms. Farlow agreed that would be a great way to generate stakeholder participation and engagement. Ms. Dyer discussed the revenue generation needs and the Board provided further input on the need for the land.

Ms. Dyer advised the Board that, per legal counsel, the hiring of MIG facilitators for this workshop does not give them an advantage nor disqualify them from potentially proposing on master plan preparation.

Next steps, Ms. Dyer continued, include a report from MIG on the workshop discussion, development of a Request for Proposals (RFP), presentation of the RFP to the Board, then receipt of proposals for development of a master plan. Staff will devise goals based on the day's discussion. Mr. Beynon recommended articulation of goals and desired services in the RFP. Mr. Huang noted staff will begin outreach to potential partners.

Ms. Dyer advised site tours are being planned for Congressman Aguilar's office, Senator Ochoa-Bogh, Supervisor Dawn Rowe's office and the Conservation District staff. Mr. Huang is also working on overall site management, controlling the access to the site, and getting someone on site on a regular basis, she noted. A Tres Lagos Mutual Water Company Shareholder meeting is being planned in October, she added.

The Board gave direction to the CEO / General Manager to add the draft RFP to the next meeting agenda.

#### **4. Future Business**

No items added.

#### **5. Adjournment**

##### **Staff Recommendation**

Receive and File



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**DATE:** August 16, 2022

**TO:** Board of Directors

**SUBJECT:** List of Announcements

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- A. August 17, 2022, 8:30 a.m. – Upper SAR WIFA - Cancelled
- B. August 22 - August 24, 2022 – CSDA Conference (Palm Springs)
- C. August 24, 2022, 8:30 a.m. – Upper SAR WIFA Technical Advisory Committee - by  
Teleconference and/or in-person)
- D. September 1, 2022, 2 p.m. – Board of Directors Workshop – Resources by  
Teleconference and/or in-person
- E. September 5, 2022 – District Closed in Observance of Labor Day
- F. September 6, 2022, 9:30 a.m. – SAWPA Commission Meeting
- G. September 6, 2022, 10:00 a.m. – SAWPA PA 24 Meeting
- H. September 6, 2022, 2 p.m. – Regular Board Meeting by Teleconference and/or in-  
person.
- I. September 7, 2022, 8:30 a.m. – Upper SAR WIFA by Teleconference and/or in-person
- J. September 8, 2022, 2 p.m. – Board Workshop – Policy by Teleconference and/or in-  
person
- K. September 13, 2022, 8:30 a.m. – SAWPA PA 22 Meeting
- L. September 13, 2022, 2 p.m. – Board of Directors Workshop – Engineering by  
Teleconference and/or in-person
- M. September 14, 2022, 8:30 a.m. – Upper SAR WIFA Technical Advisory Committee - by  
Teleconference and/or in-person

- N. September 14, 2022, 1:30 p.m. – San Bernardino Valley Water Conservation District Board Meeting
- O. September 16, 2022, 10:00 a.m. – Board Leader Training w/ Nate Sassaman (District HQ).
- P. September 19, 2022, 6 p.m. – ASBCSD dinner (Location, TBD)
- Q. September 20, 2022, 9:30 a.m. – SAWPA Commission Meeting
- R. September 20, 2022, 2 p.m. – Regular Board Meeting by Teleconference and/or in-person.
- S. September 21, 2022, 8:30 a.m. – Upper SAR WIFA by Teleconference and/or in-person
- T. September 28, 2022, 8:30 a.m. – Upper SAR WIFA Technical Advisory Committee - by Teleconference and/or in-person
- U. September 29 - 30, 2022 – California H2O Women Conference (Santa Barbara, CA)