

MINUTES OF THE ADJOURNED MEETING OF THE
BOARD OF DIRECTORS OF
VISTA IRRIGATION DISTRICT

July 19, 2023

An Adjourned Meeting of the Board of Directors of Vista Irrigation District was held on Wednesday, July 19, 2023, at the offices of the District, 1391 Engineer Street, Vista, California.

1. CALL TO ORDER

President MacKenzie called the meeting to order at 9:00 a.m.

2. ROLL CALL

Directors present: Miller, Vásquez, Kuchinsky, Sanchez, and MacKenzie.

Directors absent: None.

Staff present: Brett Hodgkiss, General Manager; Ramae Ogilvie, Assistant Secretary of the Board; Don Smith, Director of Water Resources; Randy Whitmann, Director of Engineering; Shallako Goodrick, Director of Administration; Greg Keppler, Engineering Project Manager; Rick Pooley, Information Technology Supervisor; and Brent Reyes, Management Analyst. Frank Wolinski, Director of Operations and Field Services, was present via teleconference. General Counsel Elizabeth Mitchell of Burke, Williams & Sorensen was also present.

Other attendees: Diane Krupnak, winner of the 2023 Vista Irrigation District WaterSmart Landscape Contest was present for Item 7. Present via teleconference were La Vonne Peck and Stephanie Zehren representing the San Luis Rey Indian Water Authority.

3. PLEDGE OF ALLEGIANCE

Director Miller led the Pledge of Allegiance.

4. APPROVAL OF AGENDA

23-07-79 *Upon motion by Director Vásquez, seconded by Director Kuchinsky and unanimously carried (5 ayes: Miller, Vásquez, Kuchinsky, Sanchez, and MacKenzie), the Board of Directors approved the agenda as presented.*

5. ORAL COMMUNICATIONS

No public comments were presented on items not appearing on the agenda.

6. CONSENT CALENDAR

23-07-80 *Upon motion by Director Sanchez, seconded by Director Kuchinsky and unanimously carried (5 ayes: Miller, Vásquez, Kuchinsky, Sanchez, and MacKenzie), the Board of Directors approved the Consent Calendar, including Resolution No. 2023-27 approving disbursements.*

A. Fiscal Year 2023 Capital Outlay Carryover

See staff report attached hereto. Staff recommended and the Board approved the Capital Outlay Carryover for Fiscal Year 2023.

B. Materials for mainline replacement

See staff report attached hereto. Staff recommended and the Board approved the purchase of pipeline materials from Ferguson Waterworks for mainline replacement on Olive Avenue in the amount of \$227,615.21.

C. Minutes of Board of Directors meeting on July 5, 2023

The minutes of July 5, 2023 were approved as presented.

D. Resolution ratifying check disbursements

RESOLUTION NO. 2023-27

BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby approve checks numbered 72453 through 72557 drawn on US Bank totaling \$478,083.18.

FURTHER RESOLVED that the Board of Directors does hereby authorize the execution of the checks by the appropriate officers of the District.

PASSED AND ADOPTED unanimously by a roll call vote of the Board of Directors of Vista Irrigation District this 19th day of July 2023.

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7. 2023 WATERSMART LANDSCAPE CONTEST AWARD PRESENTATION

See staff report attached hereto.

Management Analyst Brent Reyes said that this is the eleventh year that the District has participated in the WaterSmart Landscape Contest (Contest). He stated that this is a regional contest jointly coordinated and promoted by eleven local water agencies with each agency judging their respective entries. Mr. Reyes stated that the District received four entries this year that were judged by the Water Sustainability Committee members, Directors Miller (Chair) and Sanchez. The committee selected Diane Krupnak as the winner, receiving a \$250 gift certificate and an engraved plaque.

The Board commended Ms. Krupnak on her participation in many of the conservation programs offered and thanked her for her ongoing conservation efforts. President MacKenzie and Director Sanchez presented Ms. Krupnak with her awards; Ms. Krupnak thanked the Board and left the meeting.

8. HYPER-CONVERGED INFRASTRUCTURE SOLUTION

See staff report attached hereto.

General Manager Brett Hodgkiss stated that the current infrastructure that hosts the District’s computing power and data storage will no longer be supported after September 2023, leaving the District at risk of losing data/computing power should the system fail. Information Technology Supervisor Rick Pooley stated that the new infrastructure would include three years of support with the ability to extend the support for several additional years to cover the life of the system, which is estimated to be seven years.

23-07-81 *Upon motion by Director Miller, seconded by Director Vásquez and unanimously carried (5 ayes: Miller, Vásquez, Kuchinsky, Sanchez, and MacKenzie), the Board of Directors authorized the General Manager to enter into an agreement with Trace3 for the purchase and installation of a Dell VxRail Hyper-Converged Infrastructure System in an amount not to exceed \$130,246.22.*

9. VISTA FLUME REPLACEMENT ALIGNMENT STUDY

See staff report attached hereto.

Director of Engineering Randy Whitmann stated that the Vista Flume (Flume) Replacement Alignment Study (Study) is in the fine screening phase, which requires performing a more robust predictive yield analysis of the Warner Valley groundwater basin; results of the analysis will serve to update the affordability analysis and determine the economic viability of replacing the Flume. He stated that the predictive yield model would switch the focus from historical local yield averages to predictive yield analysis of the entire local water system (including Lake Henshaw, San Luis Rey River, Escondido Canal and Lake Wohlford) using numerous variables, including climate change and operational scenarios, to forecast future average local yield. Mr. Whitmann stated that the scope of work of the current Agreement for Professional Services with Brown and Caldwell does not include forecasting future yields; therefore, an amendment to the Agreement is requested to engage the services of Todd Groundwater to perform additional climate change and sustainable yield simulations.

Director Sanchez stated that gathering this additional data is essential to ensure the Board has all the information needed to make an informed decision when the time comes. There was a brief discussion about the *Not to Flume* alternative and associated costs.

23-07-82 *Upon motion by Director Sanchez, seconded by Director Kuchinsky and unanimously carried (5 ayes: Miller, Vásquez, Kuchinsky, Sanchez, and MacKenzie), the Board of Directors authorized the General Manager to amend the Agreement for Professional Services with Brown and Caldwell for the Flume Replacement Alignment Study to include modeling of the Warner Valley groundwater basin to support predictive yield and climate change analyses for the local water system for a cost of \$26,672, increasing the total not-to-exceed amount to \$1,890,089.*

10. WARNER-CARRILLO RANCH HOUSE MAINTENANCE

See staff report attached hereto.

Director of Water Resources Don Smith stated that the Warner-Carrillo Ranch House's exterior whitewash coating requires annual or semi-annual maintenance to protect the structure. He said that staff recommends replacing the whitewash coating with a more durable hydraulic lime plaster system with a life span of five to ten years. Mr. Smith noted that the current agreement with Mark Sauer Construction, Inc. includes \$10,000 for repair of the existing whitewash coating; he stated that an amendment to the agreement to add an additional \$26,000 is needed to cover the cost of the hydraulic lime plaster system.

The Board agreed that the Warner-Carrillo Ranch House is a historical asset to the District and the added expense to protect it is reasonable.

23-07-83

Upon motion by Director Miller, seconded by Director Kuchinsky and unanimously carried (5 ayes: Miller, Vásquez, Kuchinsky, Sanchez, and MacKenzie), the Board of Directors authorized the General Manager to execute an amendment to the agreement for services with Mark Sauer Construction, Inc. to substitute a natural hydraulic lime plaster system for the existing exterior whitewash coating for the Warner-Carrillo Ranch House for a cost of \$26,000, increasing the not-to-exceed amount to \$76,000.

11. MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

See staff report attached hereto.

Director Miller stated that there was a special board meeting of the San Diego County Water Authority (Water Authority) the previous week which focused mainly on the Fallbrook Public Utility District (Fallbrook) and Rainbow Municipal Water District (Rainbow) reorganizations (detachments). He reported that the Local Agencies Formation Commission voted (five in favor and three against) to approve the detachments; the Water Authority forecasts a deficit of about \$19 million, which its remaining member agencies, including Vista Irrigation District, may have to cover, as a result Fallbrook and Rainbow leaving. Director Miller stated that the Water Authority's Board directed its officers and staff to try to negotiate one last time with the parties for an exit fee that would relieve the financial burden associated with the detachments. He said that the next meeting of the Water Authority Board of Directors will be held on July 27, 2023.

12. MEETINGS AND EVENTS

See staff report attached hereto.

Director Kuchinsky reported on his attendance of the California Special Districts Association (CSDA) Special District Financing webinar in which he heard a presentation on private and public financing.

Director Vásquez reported on his attendance at the Association of California Water Agencies (ACWA) Region 10 Board meeting where there was discussion about sponsoring a Region 10 program at the ACWA Fall Conference in November 2023. He also reported on his attendance at the Council of Water Utilities meeting where he heard a presentation by Serge Dedina, Executive Director of Wildcoast, regarding *Solutions for Addressing the Tijuana-San Diego Ocean Pollution Crisis*.

Director Sanchez reported that he attended the Water Sustainability Committee meeting as well as a meeting of the 100th Anniversary ad hoc committee. He requested that the Vista Chamber of Commerce Business Mixers (formerly known as Sundowners) be added to the Schedule of Upcoming Meetings and Events staff reports.

President MacKenzie reported on her attendance at the San Luis Rey Settlement Implementation Parties Consultation where the discussion focused on the Harmful Algal Blooms treatment plan and long-term solutions at Lake Henshaw.

Director Vásquez requested authorization to attend the CSDA Quarterly Meeting on August 17, 2023. Directors Miller, MacKenzie and Vásquez requested authorization to attend the ACWA Fall Conference on November 28-30, 2023. Directors Miller, MacKenzie and Kuchinsky (tentatively) requested authorization to attend the Colorado River Water Users Association Conference (CRWUA) on December 13-15, 2023. Director Kuchinsky stated that he would confirm his request to attend CRWUA in the next couple of weeks.

23-07-84

Upon motion by Director Kuchinsky, seconded by Director Sanchez and unanimously carried (5 ayes: Miller, Vásquez, Kuchinsky, Sanchez, and MacKenzie), the Board of Directors authorized Director Vásquez to attend the CSDA Quarterly Meeting on August 17, 2023; Directors Miller, MacKenzie and Vásquez to attend the ACWA Fall conference on November 28-30, 2023; and Directors Miller, MacKenzie, and Kuchinsky to attend the Colorado River Water Users Association Conference on December 13-15, 2023.

13. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

See staff report attached hereto.

President MacKenzie suggested that another press release be sent out regarding the District's 100th Anniversary Celebration event.

Mr. Hodgkiss stated that the ACWA President and Vice President and ACWA Region 10 Board of Directors elections would be on the August 2, 2023 Board meeting agenda.

14. COMMENTS BY DIRECTORS

Director Sanchez commented that he visited the District's booth at the City of Vista's Fun Fest the past weekend and commended staff for the fantastic job done in representing the District and interacting with the community. He updated the Board on the September 9, 2023 100th Anniversary Celebration event and stated that invitation cards were given to each Board member to be passed out at meetings/events they attend. Director Sanchez noted that the Vista Historical Society has a "Buy a Brick Fundraiser" and challenged the Board to contribute money to purchase a commemorative brick in honor of the District's 100th Anniversary; each Board member contributed money towards purchasing a brick.

Director Kuchinsky commended staff for its outreach efforts, noting the recent Union Tribune news article regarding the District's scholarship and poster contest winners and the Reflections Newsletter which focused on the District's 100th Anniversary. He suggested sending thank you cards signed by members of the Board to those agencies that have presented the District with resolutions/proclamations recognizing the District's 100th Anniversary.

Director Miller commented that the Metropolitan Water District (MWD) is hosting a two-day Hoover Dam Tour on October 27-28, 2023 and a one-day tour of Diamond Valley Lake in April 2024. He also informed the Board that he was appointed as Chair of the Ad Hoc Committee on Affordability and De-Annexation Issues and Policies for MWD.

President MacKenzie commented that she would be passing out the 100th Anniversary Celebration invitations at upcoming events she will be attending.

15. COMMENTS BY GENERAL COUNSEL

General Counsel Elizabeth Mitchell had no comments.

16. COMMENTS BY GENERAL MANAGER

Mr. Hodgkiss informed the Board that the District applied for and received an ACWA Joint Powers Insurance Authority (ACWA-JPIA) Wellness Program Grant; it will be used to purchase hats for all employees for sun protection. He stated that the District will be providing Alta Vista Botanical Gardens (Garden) materials to post in a kiosk at the Garden's entrance to promote landscape workshops and other events; staff has also spoken to the Garden about participating in their 2023 Fall Fun Festival in October and future events.

Mr. Hodgkiss reported that the water level at Lake Henshaw was currently at about 29,500 acre feet. He wished Director Sanchez an early happy birthday.

17. ADJOURNMENT

There being no further business to come before the Board, at 11:35 a.m., President MacKenzie adjourned the meeting.



Jo MacKenzie, President

ATTEST:



Ramae Ogilvie, Assistant Secretary
Board of Directors
VISTA IRRIGATION DISTRICT



STAFF REPORT

Agenda Item: 6.A

Board Meeting Date: July 19, 2023
Prepared By: Shallako Goodrick
Approved By: Brett Hodgkiss

SUBJECT: FISCAL YEAR 2023 CAPITAL OUTLAY CARRYOVER

RECOMMENDATION: Approve the Capital Outlay Carryover for Fiscal Year 2023.

PRIOR BOARD ACTION: Amounts contained in the Capital Outlay Carryover have been previously approved by the Board as part of the District's Capital Budget or as separate Board approvals funded through the Capital Improvement Reserve.

FISCAL IMPACT: The amounts in the Capital Outlay Carryover have already been collected and have no impact on the current year budget or water rates.

SUMMARY: Staff annually identifies capital projects that have not been fully expended and need to be carried over to the following fiscal year. We have identified an estimated \$3,490,968 in capital items from Fiscal Year 2023 that need to be carried over to Fiscal Year 2024.

These amounts represent items that were previously approved by the Board; however, due to timing, construction delays outside the District's control, supply chain interruptions and unforeseen circumstances have not been finalized as of June 30, 2023.

DETAILED REPORT: The attached schedule indicates the capital items to be carried over to Fiscal Year 2024.

ATTACHMENT: Capital Outlay Carryover – Fiscal Year 2023.

**Vista Irrigation District
CAPITAL OUTLAY CARRYOVER
Fiscal Year 2023**

	Budget Item #	Approved Capital Outlay	Estimated Outlay Through 6/30/2023	Estimated Carryover	Comments
ENGINEERING:					
E Reservoir and Pump Station	16-04	10,000,000	8,873,781	1,172,085	In progress; expected to be completed in FY 2024.
Four (4) Reservoirs Rehabilitation	20-03	135,000	134,332	-	On-going.
Vista Flume Replacement	21-01	2,200,000	979,555	1,270,018	On-going.
Deodar Reservoir Rehabilitation	22-01	335,000	314,504	20,496	On-going.
New Zone 637 Feed	23-01	102,000	-	102,000	In progress; expected to be in service in August 2023.
		<u>12,772,000</u>	<u>10,302,172</u>	<u>2,564,599</u>	
FIELD SERVICES:					
Vehicles (2)	23-02	360,000	-	360,000	Vehicles (Dump Trucks) have been unavailable.
		<u>360,000</u>	<u>-</u>	<u>360,000</u>	
INFORMATION TECHNOLOGY:					
Board Room Audio Visual System	22-06	80,000	-	80,000	Audio completed and expensed; visual to be completed in FY 24
		<u>80,000</u>	<u>-</u>	<u>80,000</u>	
WATER RESOURCES:					
Warner Wellfield Assessment and Enhancement	20-15	500,000	13,631	486,369	On hold pending Board decision on Flume Replacement Project.
		<u>500,000</u>	<u>13,631</u>	<u>486,369</u>	
		<u>\$ 13,712,000</u>	<u>\$ 10,315,803</u>	<u>\$ 3,490,968</u>	



STAFF REPORT

Agenda Item: 6.B

Board Meeting Date: July 19, 2023
Prepared By: Frank Wolinski
Approved By: Brett Hodgkiss

SUBJECT: MATERIALS FOR MAINLINE REPLACEMENT

RECOMMENDATION: Approve the purchase of pipeline materials from Ferguson Waterworks for mainline replacement on Olive Avenue in the amount of \$227,615.21.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: \$227,615.21 including tax and freight.

SUMMARY: The District solicited bids from three vendors, Core & Main, Ferguson Waterworks and Pacific Pipeline Supply. All bids were responsive to the District's specifications; Ferguson Waterworks submitted the lowest bid.

DETAILED REPORT: This mainline project will replace approximately 1,800 feet of 8-inch Nipponite pipe in Olive Avenue installed in 1966. Staff recommends the replacement of this main as it will eliminate a priority segment of Nipponite pipe.

Materials being purchased for this project include 6-inch, 8-inch and 12-inch PVC pipe and various fittings.

Bid Results:	Ferguson Waterworks	\$227,615.21
	Pacific Pipeline Supply	\$236,187.29
	Core & Main	\$257,740.00

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA): This purchase is for a mainline replacement project that staff previously determined to be exempt under Class 2 of the State CEQA Guidelines section 15302 (Replacement or Reconstruction), 14 CCR § 15302(c), because it consists of replacement or reconstruction of an existing utility system and/or facilities involving negligible or no expansion of capacity and there is no potential for the project to cause either a direct or a reasonably foreseeable indirect physical change in the environment.



Cash Disbursement Report

Payment Dates 6/22/2023 - 7/6/2023

Payment Number	Payment Date	Vendor	Description	Amount
72453	06/28/2023	Refund Check 72453	Customer Refund	2,111.15
72454	06/28/2023	Active Auto Collision	Replaced Front Bumper - Truck 45	1,855.93
72455	06/28/2023	Airgas USA LLC	Welding Supplies	42.13
72456	06/28/2023	Amazon Capital Services	Boardroom Frames (12)	435.52
	06/28/2023		Carburetor for Weed Tamper	28.13
	06/28/2023		Wireless Headsets (2)	310.64
	06/28/2023		In-Box Organizer	31.84
	06/28/2023		Heavy Duty Metal Binders (2)	135.75
	06/28/2023		Hitch Stop - Truck 15	68.19
72457	06/28/2023	Answering Service Care, LLC	Answering Service	569.00
72458	06/28/2023	AT&T	3680/CALNET 05/13/23-06/12/23 - SIP Trunks	437.86
	06/28/2023		0230/CALNET 05/13/23-06/12/23 - Teleconference	32.84
72459	06/28/2023		Voice & Data	1,183.12
72460	06/28/2023	B&K Engraving	Landscape Contest Winner Plaque	51.09
72461	06/28/2023	Boot World Inc	Footwear Program (2)	360.00
72462	06/28/2023	Brian True	Direct Deposit Replacement Check	175.00
72463	06/28/2023	Broadway Auto Glass Inc	Windshield - Truck 24	369.38
72464	06/28/2023	Bryan and the Bee's	Live Bee Removal (1)	175.00
	06/28/2023		Live Bee Removal (1)	175.00
	06/28/2023		Live Bee Removal (1)	175.00
	06/28/2023		Live Bee Removal (1)	175.00
72465	06/28/2023	California Board of Accountancy	CPA Renewal Fee	280.00
72466	06/28/2023	CARB/PERP	CARB/PERP Registration - Cold Planer & G-25	1,220.00
72467	06/28/2023	Cecilia's Safety Service Inc	Traffic Control - Verona Hills Court	1,425.00
	06/28/2023		Traffic Control - Bellevire Dr	475.00
	06/28/2023		Traffic Control - Buena Vista Dr/Mar Vista Dr	5,557.50
72468	06/28/2023	760Print	Annual CCR Report	233.82
72469	06/28/2023	CleanCapital HC4 Borrower LLC	Solar Energy 05/2023	4,521.31
72470	06/28/2023	Cosco Fire Protection, Inc	Quarterly Fire Sprinkler Inspection	595.00
72471	06/28/2023	Craneworks Southwest Inc	Pressure Transducers (2)	481.81
72472	06/28/2023	CSUSM	Scholarship Award	2,000.00
72473	06/28/2023	Direct Energy	Electric 05/2023 - VID Headquarter	2,609.59
	06/28/2023		Electric 06/2023 - C Rectifier (Flume)	5.01
	06/28/2023		Electric 06/26/23 - Intown	5.17
72474	06/28/2023	Ferguson Waterworks	Angle Ball Valve 2" FNPT X MNPT (CurbStop) (6)	2,155.56

Payment Number	Payment Date	Vendor	Description	Amount
	06/28/2023		Nipple / 0.75" x 2.5" / Brass (5)	20.03
	06/28/2023		1" Meter Gasket / 1/16" Thick (200)	97.43
	06/28/2023		14" N/A Drop-In Gasket (No-Holes) (6)	101.65
	06/28/2023		6" N/A Drop-In Gasket (No-Holes) (25)	102.84
	06/28/2023		Ell / 0.75" / 90° Brass / Street (5)	33.56
	06/28/2023		Nipple / 1" x CL / Brass (5)	20.30
	06/28/2023		3/4" Meter Gasket / 1/16" Thick (200)	75.78
	06/28/2023		Ell / 0.75" / 90° Brass (5)	25.98
	06/28/2023		Ell / 0.75" Copper / 90° / C x C (5)	10.55
	06/28/2023		Nipple / 0.75" x CL / Brass (5)	13.80
	06/28/2023		12" N/A Drop-In Gasket (No-Holes) (10)	113.12
72475	06/28/2023	Coast Fitness Repair Shop	Fitness Equipment Maintenance	200.00
72476	06/28/2023	Hawthorne Machinery Co	XL Cotter Pins (12)	34.26
72477	06/28/2023	InfoSend Inc	ECCR Notice - Insert Cost	83.85
72478	06/28/2023	Jo MacKenzie	Reimburse - ACWA Legislative Committee Mtg	673.68
72479	06/28/2023	Kelly Spicers Stores	Door Hangers (4000)	229.85
72480	06/28/2023	Koraleen Enterprises	Water Sampling Test Stands (4)	2,030.09
72481	06/28/2023	McMaster-Carr Supply Company	3" Fittings for Auto Air Vent (1)	905.34
	06/28/2023		Parts for 3" Auto Air Vent	583.89
72482	06/28/2023	Moodys	Dump Fees (3)	900.00
72483	06/28/2023	Mutual of Omaha	LTD/STD/Life Insurance 07/2023	6,310.67
72484	06/28/2023	NAPA Auto Parts	Filters (2)	56.51
	06/28/2023		Filters (4)	71.61
72485	06/28/2023	North County Auto Parts	Steering Wheel Cover - Truck 33	27.72
	06/28/2023		Battery - VE2	198.18
	06/28/2023		Headlamp Bulbs (2) - Truck 14	10.59
72486	06/28/2023	Pacific Pipeline Supply	Gate Valve 8" POxFL R/W (1)	1,125.80
	06/28/2023		Sleeve 8"x12" Galvanized Top Sections (50)	703.63
	06/28/2023		Fire Hydrant Spool 6x24 DI (2)	530.41
	06/28/2023		Service Saddle 8x2 PVC (2)	469.81
	06/28/2023		Fire Hydrant Spool 6x18 DI (2)	448.16
	06/28/2023		Flange 10" SOW (2)	220.83
	06/28/2023		Adapter FH Brass 2.5"x2" (1)	73.61
	06/28/2023		Adapter FH Swivel 2.5"x2.5" (1)	83.35
	06/28/2023		Angle Ball Mtr Valve 2" FLG X FIP DD Lockwing (4)	1,628.08
	06/28/2023		Clamp 2x6 Repair Full Circle Copper SS Romac (1)	80.11
	06/28/2023		Gate Valve 6" FL R/W (2)	2,089.23
	06/28/2023		Adapter 2" Copper x MIP (15)	227.33
	06/28/2023		Tubing 1" Copper Soft 60' (240)	2,078.40
	06/28/2023		Fire Hydrant LB400 Check Valve (2)	4,052.88

Payment Number	Payment Date	Vendor	Description	Amount
	06/28/2023		Pipe Lube 5 gal (2)	190.52
	06/28/2023		Ell 2" 45 Degree Brass (3)	77.94
	06/28/2023		Fire Hydrant Rod 15"x.5" Break Off SS (2)	151.55
	06/28/2023		Manhole Hook (1)	60.12
72487	06/28/2023	Pacific Safety Center	Fall Protection Training (3)	585.00
72488	06/28/2023	Pulltarps Manufacturing	Tarp System Parts - Truck 22	465.56
72489	06/28/2023	RIB Software North America	ICE Software Maintenance & Support	1,850.00
72490	06/28/2023	San Diego County Water Authority	Council of Water Utilities Mtg 7/18/23 - R Vasquez	55.00
72491	06/28/2023	San Diego Gas & Electric	Electric 05/2023 - Cathodic Protection & T&D	354.28
	06/28/2023		Electric 05/2023 - Reservoirs	145.13
	06/28/2023		Electric 05/2023 - Pump Stations	14,301.93
	06/28/2023		Electric 05/2023 - Plants	134.80
72492	06/28/2023	SePro Corporation	HABs Lab Analysis	1,020.00
	06/28/2023		HABs Lab Analysis	1,020.00
	06/28/2023		HABs Lab Analysis	1,020.00
72493	06/28/2023	Stephen Huynh	AWWA Certificate Renewals (2)	175.00
	06/28/2023		Reimburse - Employee Event 06/27/23	582.91
72494	06/28/2023	Bend Genetics, LLC	HABs Lab Analysis	3,847.00
	06/28/2023		HABs Lab Analysis	3,516.00
72495	06/28/2023	The San Diego Union-Tribune LLC	RFP Advertisement - Annual Paving	1,117.24
72496	06/28/2023	TS Industrial Supply	Fluorescent Marking Paint Pink #229 (12)	69.63
	06/28/2023		Striping Paint White #710 (24)	198.75
	06/28/2023		Teflon Tape / 1/2" (20)	15.16
	06/28/2023		Paint Brush / 2" / White (24)	18.19
	06/28/2023		Utility Knife/ Stanley Quick Change (5)	43.03
	06/28/2023		Teflon Tape / 1" (20)	28.15
	06/28/2023		Counter Brush / 9" Horsehair / Plastic Handle (4)	36.81
	06/28/2023		Nemesis Safety Glasses - Smk / Blk Frame (12)	74.69
	06/28/2023		Pipe Wrap Tape / 2" x 100' / Black (18)	170.49
	06/28/2023		Striping Paint Yellow #720 (12)	99.37
	06/28/2023		Electrical Tape / 3/4" x 60' / 7 Mil (30)	47.09
	06/28/2023		Construction Marking Paint Blue #254 (12)	55.73
	06/28/2023		Duct Tape #398 / 2" x 60 Yd (5)	59.97
	06/28/2023		Maxiflex Glove / Large / Maroon Cuff (12)	66.77
	06/28/2023		Maxiflex Glove / XI / Yellow Cuff (12)	66.77
	06/28/2023		Striping Paint Black #770 (12)	99.37
	06/28/2023		Wood Handle Wire Brush / 14" / 4 x 19 (5)	20.19
	06/28/2023		Dupont Tyvek Overall / XL / TY120SWHXL002500 (50)	357.23
72497	06/28/2023	UniFirst Corporation	Uniform Service	313.28
72498	06/28/2023	Valley CM, Inc	E Reservoir Replacement & Pump Station 05/2023	36,694.35

Payment Number	Payment Date	Vendor	Description	Amount
72499	06/28/2023	Verizon Wireless	Air Cards	152.04
	06/28/2023		Cell Phones 05/16/23 - 06/15/23	2,157.26
72500	06/28/2023	Xerox Corporation	Xerox Services & Supplies	251.89
72501	07/05/2023	Allie's Party Equip Rental Inc	Chairs Rental - AC Pipe Training	172.04
72502	07/05/2023	Amazon Capital Services	Deposit Bags, Radio Holster	58.86
	07/05/2023		Velcro (3)	30.39
	07/05/2023		Wire Mesh for Bug Screens	161.24
	07/05/2023		Monitor (1)	175.44
	07/05/2023		Warehouse Supplies	54.10
	07/05/2023		HABs Shipping Supplies	68.49
	07/05/2023		Trailer Hitch Pins w/clips	17.22
	07/05/2023		Oil Level Sight Glasses (2)	134.73
	07/05/2023		Office Supplies	43.90
	07/05/2023		Warehouse Supplies	304.66
72503	07/05/2023	Auto Specialist Warehouse	Brake Parts - Truck 33	378.99
72504	07/05/2023	Boot World Inc	Footwear Program (1)	180.00
72505	07/05/2023	Bryan and the Bee's	Live Bee Removal (1)	175.00
	07/05/2023		Live Bee Removal (1)	175.00
	07/05/2023		Live Bee Removal (1)	175.00
	07/05/2023		Live Bee Removal (1)	175.00
	07/05/2023		Live Bee Removal (1)	175.00
72506	07/05/2023	California Department of Tax and Fee Administration	June '23 Use Tax Return	98.00
72507	07/05/2023	Cecilia's Safety Service Inc	Traffic Control - Palomar Dr	1,567.50
	07/05/2023		Traffic Control - Calle Jules	1,163.75
	07/05/2023		Traffic Control - Buena Vista Dr/Mar Vista Dr	522.50
72508	07/05/2023	Complete Office of California, Inc	Office Supplies	85.33
72509	07/05/2023	Core & Main	Service Saddle 4x1 PVC (3)	405.94
	07/05/2023		Corp Stop 1" MIP X Flare (8)	606.20
	07/05/2023		Corp Stop 2" MIP X FIP (2)	627.86
	07/05/2023		Gate Valve 4" POxFL R/W (1)	763.16
	07/05/2023		Gate Valve 6" POxFL R/W (1)	1,001.31
	07/05/2023		Fire Hydrant LB400 Check Valve (1)	1,991.80
	07/05/2023		Nut & Bolt Kits (2)	908.98
	07/05/2023		Concrete Meter Boxes (3)	76.94
	07/05/2023		Deflection Couplings (8)	2,623.98
	07/05/2023		Ductile Spools (3)	908.02
	07/05/2023		Ball Mtr Valve .75" Lockwing FIPxSwivel Mtr Nut (10)	822.70
	07/05/2023		Ball Mtr Valve .75" Lockwing FIPxSwivel Mtr Nut (10)	822.70
72510	07/05/2023	Deon Lepovac	Property Rental for Staging Area	2,150.00
72511	07/05/2023	Diamond Environmental Services	Portable Restroom Service	182.95

Payment Number	Payment Date	Vendor	Description	Amount
	07/05/2023		Portable Restroom Service	102.57
72512	07/05/2023	DIRECTV	Direct TV Service	118.24
72513	07/05/2023	Gates Photography	100 Year Photo	350.00
72514	07/05/2023	Electrical Sales Inc	Solar Mount / Pole	1,351.06
72515	07/05/2023	Ferguson Waterworks	Gasket 2" Meter Flg HP Drop In (5)	98.24
	07/05/2023		Gasket 1.5" Meter Flg HP Drop In (20)	313.93
72516	07/05/2023	Garda CL West, Inc	Cash Deposit Transport Service 07/2023	353.08
72517	07/05/2023	Gateway Pacific Contractors, Inc	E Reservoir Replacement & Pump Station 05/2023	225,074.00
72518	07/05/2023	Geico Claims	Reimburse - Claim	7,794.86
72519	07/05/2023	GoSecure	35G SWG Basic Appliance Maintenance (1)	1,010.85
	07/05/2023		Support Renewal (100)	120.00
	07/05/2023		Web Security Service Renewal (100)	1,725.00
72520	07/05/2023	Grainger	Check Valve (1)	45.55
72521	07/05/2023	Hach Company	Lab Supplies	768.98
	07/05/2023		NTU Calibration Standards	675.48
72522	07/05/2023	Hello Deli	Lunch 6/27/23 (3) - Director of Water Resources Interviews	45.78
	07/05/2023		Lunch 6/28/23 (3) - Finance Supervisor Interviews	50.16
72523	07/05/2023	Hi-Line Inc	Hardware for Garage	422.83
	07/05/2023		Hand Cleaner Cartridges	41.46
	07/05/2023		Duplex Wire	105.01
72524	07/05/2023	InfoSend Inc	Data Processing/Mailing Services 05/2023	5,411.03
	07/05/2023		Storage & Support 05/2023	1,672.12
72525	07/05/2023	Jackson & Blanc	AC Unit Repair - Server Room	1,514.45
72526	07/05/2023	Jan-Pro of San Diego	Janitorial Service	4,497.00
72527	07/05/2023	Kimball Midwest	Shop Chemicals & Primer	261.23
72528	07/05/2023	Kronick Moskovitz Tiedemann & Girard	Legal 06/2023	2,679.00
72529	07/05/2023	Lawnmowers Plus Inc	Thrust Plate for Chainsaw	28.54
	07/05/2023		Sharpen Chainsaw Chains	33.97
72530	07/05/2023	Major League Pest	Monthly Pest Control	225.00
72531	07/05/2023	Makelele Systems Landscape & Maintenance, Inc	Landscape Service 06/2023	1,650.00
72532	07/05/2023	Mallory Safety and Supply, LLC	Boots 10 Knee-high Steel Toe (1)	21.60
	07/05/2023		Vest Lime Hi-Viz 2XL (8)	178.83
	07/05/2023		Vest Lime Hi-Viz XL (6)	134.12
72533	07/05/2023	McMaster-Carr Supply Company	SCADA Panel Mounting Hardware	164.78
	07/05/2023		Auto Air Vent Parts	138.33
	07/05/2023		Hardware	100.66
	07/05/2023		Hardware	309.00
72534	07/05/2023	Moodys	Dump Fee (1)	300.00
	07/05/2023		Dump Fee (1)	300.00
	07/05/2023		Dump Fee (1)	300.00

Payment Number	Payment Date	Vendor	Description	Amount
72535	07/05/2023	NAPA Auto Parts	Starter Solenoid - Truck 79	41.67
	07/05/2023		Hitch Pin (1)	12.98
	07/05/2023		Filters (4)	107.69
72536	07/05/2023	North County Auto Parts	Rear Shocks - Truck 46	155.36
	07/05/2023		Oil & Shop Chemicals	247.88
	07/05/2023		Battery Core Credit	(17.32)
72537	07/05/2023	Pacific Pipeline Supply	Meter Lateral Angle Stops (5)	772.41
	07/05/2023		Coupling 10" Deflection C900 (5)	1,656.23
	07/05/2023		Adapter 12" DI FLxPO (1P)	456.82
	07/05/2023		Coupling 1"x1" Female Flare x Super Grip (7)	492.54
	07/05/2023		4" DI Spool (1)	443.38
72538	07/05/2023	Parkhouse Tire Inc	Tires (2) - B21	1,257.11
	07/05/2023		Tires (2) - Truck 22	1,771.48
72539	07/05/2023	RC Auto & Smog	AC Repair - Truck 14	364.85
72540	07/05/2023	Interstate All Battery Center	SCADA 12V Batteries (2)	350.10
72541	07/05/2023	RouseSign and Graphics Inc	Public Notification Sticker - E Taylor	59.54
72542	07/05/2023	RS Americas Inc	SCADA Panel Fan Filters (10)	186.73
72543	07/05/2023	Volvo Construction Equipment & Services	Hydraulic Reservoir Plug - E1	41.25
	07/05/2023		Filters, Oil, Decals - E1	272.05
72544	07/05/2023	SePro Corporation	HABs Lab Analysis	1,020.00
72545	07/05/2023	Southland Pipe Corp.	26" 150# Slip on Flange (2)	2,577.38
	07/05/2023		THK Fabled Concentric Reducer (2)	7,247.27
72546	07/05/2023	Steve Tester	Reimburse - Hydraulic Fitting for Truck 64	121.25
72547	07/05/2023	Stillwater Sciences	HABs Consulting 05/2023	474.24
	07/05/2023		HABs Management Plan 05/2023 - Phase II	17,873.78
72548	07/05/2023	Sunbelt Rentals	Concrete	285.01
72549	07/05/2023	Bend Genetics, LLC	HABs Lab Analysis	3,516.00
	07/05/2023		HABs Lab Analysis	3,516.00
72550	07/05/2023	Midas Service Experts	Tire (1) - Truck 46	235.01
	07/05/2023		Tire (1) - Truck 46	235.01
72551	07/05/2023	TS Industrial Supply	Sockets (2), Drill Bit (1)	52.55
72551	07/05/2023		Diesel Storage Can (1), Safety Can (1)	96.93
72551	07/05/2023		Smart Fit Earplugs / HOW SMF-30 / 100 per box (1)	116.91
72551	07/05/2023		Pyramex Goliath Safety Glasses - Black/ Smoke (12)	113.66
72551	07/05/2023		Striping Paint Black (12)	99.37
72551	07/05/2023		Striping Paint Blue #750 (12)	99.37
72551	07/05/2023		Striping Paint White #710 (12)	99.37
72551	07/05/2023		Max Earplugs / Uncorded / Max 1 / 200 per box (12)	38.97
72551	07/05/2023		Tyvek Coveralls / Large / TYVTY120SWHLG00 (25)	188.08
72551	07/05/2023		Plier 8" Long Nose (1)	33.56

Payment Number	Payment Date	Vendor	Description	Amount
72551	07/05/2023		Igloo Water Cooler 3 gal (2)	107.58
72551	07/05/2023		Shut-Off Tool #85 (2)	681.98
72551	07/05/2023		Shovel Round Point (7)	250.06
72551	07/05/2023		Hose 50' 5/8" Garden Heavy Duty (2)	198.57
72551	07/05/2023		Shovel 4" Trench (3)	156.96
72551	07/05/2023		Blade 7" Diamond Concrete (3)	124.05
72551	07/05/2023		Wrench Fire Hydrant (2)	39.81
72551	07/05/2023		Mirror 3.25" Diameter Telescopic (2)	51.42
72551	07/05/2023		Wrench Crescent 10" Adjustable (2)	75.13
72552	07/05/2023	Umpqua Bank	E Res Replacement & Pump Station 05/23 - Retainage D2346	11,845.99
72553	07/05/2023	UniFirst Corporation	Uniform Service	249.54
72554	07/05/2023	Vinje & Middleton Engineering Inc	Compaction Test - Mar Vista Dr	533.75
72555	07/05/2023	Vulcan Materials Company and Affiliates	Cold Mix	2,508.01
72556	07/05/2023	Water District Jobs	Employment Advertising - Utility Worker Trainee	145.00
72557	07/05/2023	West Coast Civil, Inc	Waterline Improvement - Watson Way (TO 02)	2,480.00
72557	07/05/2023		Waterline Improvement - McGavran Dr (TO 03)	2,480.00
Grand Total:				478,083.18



**WATER SUSTAINABILITY
COMMITTEE REPORT**

Agenda Item: 7

Board Meeting Date: July 19, 2023
Prepared By: Dirs. Miller & Sanchez

SUBJECT: 2023 WATERSMART LANDSCAPE CONTEST AWARD PRESENTATION

RECOMMENDATION: Award \$250 gift certificate to Diane Krupnak as the winner of the 2023 Vista Irrigation District WaterSmart Landscape Contest.

PRIOR BOARD ACTION: At its August 17, 2022 meeting, the Board awarded a gift card and plaque to the winner of Vista Irrigation District's 2022 Landscape Contest.

FISCAL IMPACT: \$300 for award and plaque.

SUMMARY: The District participated in the 2023 WaterSmart Landscape Contest jointly coordinated and promoted, but individually judged, by participating agencies. The District participated along with eleven other local agencies (Helix Water District, Olivenhain Municipal Water District, Otay Water District, Padre Dam Municipal Water District, San Dieguito Water District, Sweetwater Authority, Vallecitos Water District, California American Water, Rincon Del Diablo Water District, and the cities of Escondido and Oceanside) in this year's contest. The landscape contest winner receives a \$250 gift certificate from their participating agency.

DETAILED REPORT: This is the eleventh straight year the District has participated in the landscape contest. Promotional materials were emailed to customers who participated in regional turf removal rebate programs and/or attended recent landscape training workshops hosted by the District. Additional landscape contest promotional efforts included a promotional article in the City of Vista's "Vista New Center" email newsletter, social media promotion by the San Diego County Water Authority, direct marketing to homes with attractive water-wise landscaping, and announcing the contest on the District's website. The District received four applications by the May 12, 2023 deadline.

Water Sustainability Committee members Miller and Sanchez were the contest judges. The Committee reviewed the applications taking into consideration the following criteria: overall attractiveness, appropriate plant selection, design, appropriate maintenance and efficient methods of irrigation. After discussion and careful consideration of the four applications, the Committee selected Diane Krupnak to be awarded a \$250 gift card as the winner of the Vista Irrigation District 2023 WaterSmart Landscape Contest. Ms. Krupnak's winning landscape will be featured on the WaterSmart Landscape Contest's website (www.landscapecontest.com) and the District's website.

ATTACHMENTS: WaterSmart Landscape Contest Applications

Owner's Name

Analyn Ford

Landscape Installation Date

04/25/2023

How did you hear about the contest?

Vista Irrigation District Website

Tell us why you decided to install a WaterSmart landscape (300 - 500 words):

We decided to install a WaterSmart landscape for various reasons:

- we strongly support the State of California fight against drought due to climate change.
- we thrive to adopt measures to save money and support the City of Vista
- to express and share our passion to Succulents and drought tolerant plants

List the water-wise plants you used in the design:

Agave, Aloe Vera, Aeonium, Jades, Sunburst and Kalanchoe

Describe how you water your landscape (50 - 100 words):

From old sprinkler system, we decided to install a water catchment system coming from the house gutter to catch basin creek type. We also installed 3-4" mulch all around to reduce evaporation.

Before







Owner's Name

Diane Krupnak

Landscape Installation Date

08/05/2022

How did you hear about the contest?

Brent Reyes

Tell us why you decided to install a WaterSmart landscape (300 - 500 words):

During the severe drought, I wanted to reduce my outdoor water consumption by having slightly more hardscape, all drip irrigation and no turf. I redesigned my front yard saving \$68 on my June water bill and the \$50 cost to mow.

I took the WaterSmart Landscape Makeover Series of classes, learning soil assessment and plant choices, creating a plot plan, using drip irrigation, and mulching. I also successfully applied for the BeWaterWise turf removal program.

I intensely researched the plants and how they related to one another in height, length, color, and needs, drew plans and worked with a hardscaper and a landscaper who planted and transformed my irrigation system to drip.

My execution included paver hardscape with an inviting low sitting wall. The patio has two large planting areas within the wall and another along the side and front of the house. The largest planting area is in front of the wall to the street. A medium-sized planting area is on the opposite side of the driveway and another runs along the right front and far side of the house.

I included lighting (on choice plants and along the wall), a horizontal rock swale to keep water in the yard and not in the sewer, and a large rock found while digging.

Instead of popular succulents, I chose a softscape of moderate to low water use plants that relax the hardscape and complement the Mediterranean influence of the home.

I used more than 60 plants, and an additional six in pots on the patio. I restricted my plant palette to greens, whites and limited pops of color.

Every Mediterranean home needs bright red geraniums, which, in this case, bring your eye from the front yard and into the patio.

The cheerful red of the Alstroemeria on the opposite side of the driveway and inside the patio picks up the same hue. Intense orange blossoms and bright green foliage of the Tecoma Stans Bells of Fire Esperanza bushes at opposite ends of the yards always receive rave comments. Coleonema Sunset Gold bushes shine a brilliant yellow green.

The striped leaves of several scattered dwarf agapanthus harmonize the yard's predominant medium green and white. The whimsical Cousin Itt, is a shaggy green delight in the middle of the main planting area. Green is also mirrored in the different textures of the Pittosporum Wheeler's Dwarf, the dwarf juniper, dwarf day lilies and the Italian oregano. An explosion of green, yellow, orange, and red comes from the Nandina Firepower, which are planted at either side of the garage door and along the side of the largest planter. White Lightnin' trailing lantana and Scaevola White are stunners. The scaevola morphed into gorgeous carpets that are now highlighted with a light shade of lavender, which adds to the lavender of the dwarf agapanthus flowers.

The focal point of the landscape is the drought-tolerant Olea Swan Hill fruitless olive tree, which, again, strongly denotes Mediter-

List the water-wise plants you used in the design:

Swan Hill European fruitless olive tree

Tecoma Stans Bells of Fire Esperanza

Agapanthus 'Peter Pan'

Dracaena marginata

Geranium 'Caliente Deep Red'

Lantana 'White Lightning'

Aacacia 'Cousin Itt'

Scaevola 'White'

Coleonema pulchellum 'Sunset Gold'

Alstroemeria 'Kate'

Nandina 'Firepower'

Pittosporum Wheeler's Dwarf

Dwarf Daylilies

Creeping juniper

Italian oregano

Potted on patio: Elephant foot palms, Tecoma Stans Bells of Fire Esperanza, Peppermint, Spearmint, Geranium 'Caliente Deep Red'

Describe how you water your landscape (50 - 100 words):

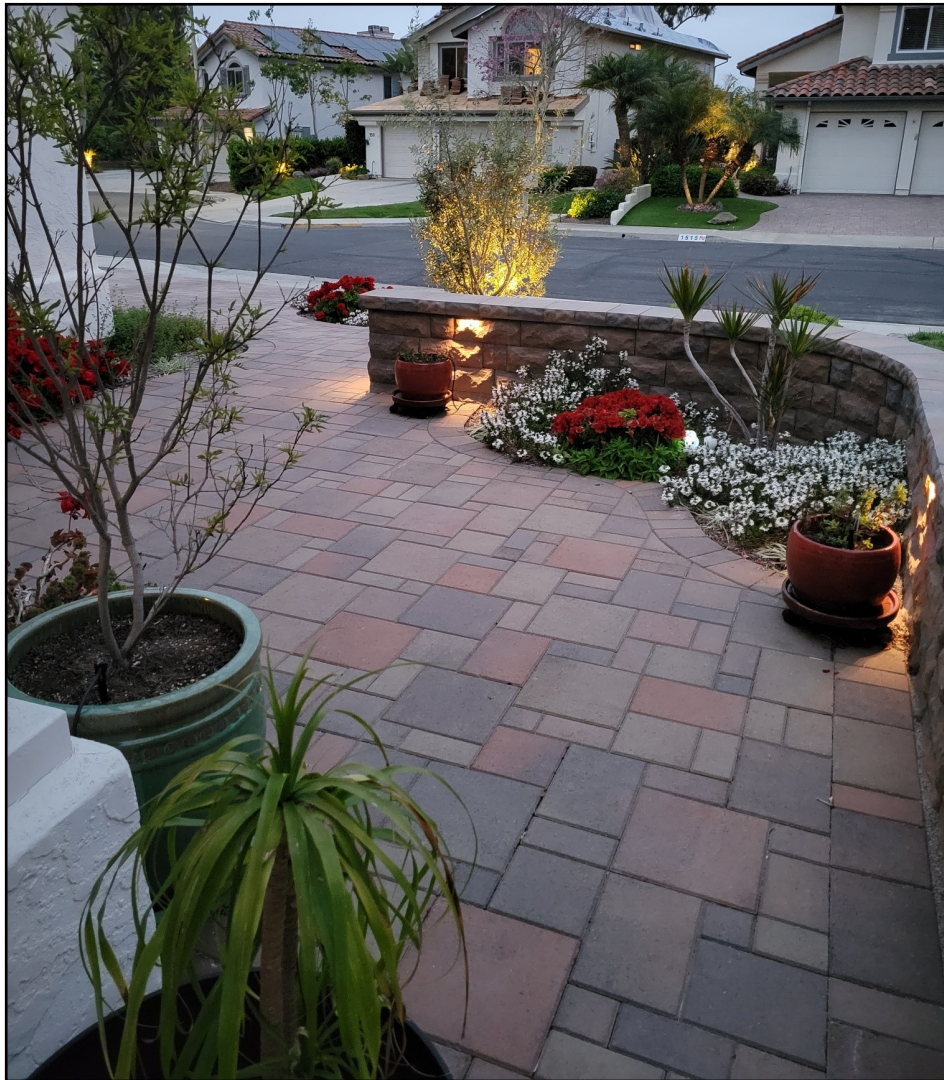
The irrigation is all new and is solely drip irrigation. I use a Rainbird ESP-ME3 smart controller, which doesn't water when it rains.

The horizontal rock swale in both main planting areas has proven to be effective in catching the recent rains from pouring into the sewer.



Before







Owner's Name

David Rees

Landscape Installation Date

11/07/2018

How did you hear about the contest?

Received email

Tell us why you decided to install a WaterSmart landscape (300 - 500 words):

Our house (on 2-3 acres) originally had 4 lawns, pepper trees, ficus trees and various non-native landscape. Our water bills were really high, and the lawns were never very green (despite consuming so much water). We also had a lot of problems with gophers and ants. We met with native plant specialist Greg Rubin who helped us lay out a plan for all native plants. The idea was to have colored blooms at different times of year with all native plant species that required far less water than the traditional lawn and non-native plants we had. Greg helped us pick out a variety of different native plants which were planted on 2 acres, with DG trails that wind between the planting areas. The initial plants were small and spaced apart, and the ground between the plants was covered with gorilla hair mulch. As part of the new plant layout, we put in a new irrigation system with low volume sprinklers. The first year we watered the small plants regularly to get them established. Once the plants were established, we began turning off the sprinkler system from October to May. Within a few seasons the plants matured and have created a very nice space, frequented by bees and hummingbirds. Presently we water twice a month June - Sept. Our water usage is very low, and you'll note from the pictures we now have far more growth than we had with our water hungry lawns. This time of year (early Summer) the blue Ceanothus has passed and the yellow Sun Drops and purple Margarita Bops are in their prime, along with the Matilija Poppy. Late summer will be the reds of the California Fuschia and the Galvezia. Needless to say, we are very happy with our native garden now and spend much of our free time in the yard.

List the water-wise plants you used in the design:

Ceanothus , Manzanita, Margarita Bops, Trichostema, Cleveland Sage, Sun Drops, Galvezia, California Fuschia, Oak tree (Quercus) Cercis occidentalis, Toyon, Baccharis "Pigeon Point", Mahonia

Describe how you water your landscape (50 - 100 words):

When we put in our water wise landscape, we put in a new irrigation system that was a combination of low volume sprinklers, drip irrigation, and high efficiency spray nozzles spread strategically over a 2 acre area. Our plan was to water the small plants until they were established, at which point we could turn off the irrigation system from October to May. During the summer months we run the system twice a month. On average we water our native garden 8 times a year. We also added rain barrels which provide additional water.

Before







Owner's Name

David Shabestari

Landscape Installation Date

06/01/2022

How did you hear about the contest?

Someone from VID mailed us a letter suggesting we enter.

Tell us why you decided to install a WaterSmart landscape (300 - 500 words):

Our old yard was difficult to maintain, and used a lot of water. We also wanted a new look.

List the water-wise plants you used in the design:

Agave, lantana, paddle plant, and others I don't know the names of!

Describe how you water your landscape (50 - 100 words):

The yard, front and back, is 100% low pressure drip irrigated.

Before









STAFF REPORT

Agenda Item: 8

Board Meeting Date: July 19, 2023
Prepared By: Rick Pooley
Reviewed By: Shallako Goodrick
Approved By: Brett Hodgkiss

SUBJECT: HYPER-CONVERGED INFRASTRUCTURE SOLUTION

RECOMMENDATION: Authorize the General Manager to enter into an agreement with Trace3 for the purchase and installation of a Dell VxRail Hyper-Converged Infrastructure System in an amount not to exceed \$130,246.22.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: Not to exceed \$130,246.22 including tax, freight and labor; additional expenses for the project will include Cisco networking and window licenses costing approximately \$10,000. \$150,000 is included in the Fiscal Year 2024 Budget for this project.

SUMMARY: The District utilizes a Hyper-Converged Infrastructure System (System) to host the majority of the District’s data and computing power. The existing infrastructure will no longer be supported after September 2023, leaving the District at risk of losing data/computing power should the System fail. For this reason, staff is recommending the replacement of the servers at this time.

DETAILED REPORT: Three vendors, Trace3, CDWG and Meridian IT, were contacted to provide solution recommendations and submit a bid; Trace3 and CDWG submitted responsive bids. Staff recommends using Trace3 to provide a new System. Dell VxRail Hyper-Converged Infrastructure System is a trusted solution in the Hyper-Converged space. This solution will provide many upgrades over the existing System including more computing power and more memory. The bid results are as follows:

Vendor	Bid Amount
Trace3	\$130,246.22
CDWG	\$146,808.15*

*Bid amount does not include installation charges.



STAFF REPORT

Agenda Item: 9

Board Meeting Date: July 19, 2023
Prepared By: Randy Whitmann
Approved By: Brett Hodgkiss

SUBJECT: VISTA FLUME REPLACEMENT ALIGNMENT STUDY

RECOMMENDATION: Authorize the General Manager to amend the Agreement for Professional Services with Brown and Caldwell for the Flume Replacement Alignment Study to include modeling of the Warner Valley groundwater basin to support predictive yield and climate change analyses for the local water system for a cost of \$26,672, increasing the total not-to-exceed amount to \$1,890,089.

PRIOR BOARD ACTION: On February 17, 2021, the Board authorized the General Manager to enter into an Agreement for Professional Services with Brown and Caldwell for the Flume Replacement Alignment Study (Study) in an amount not-to-exceed \$1,863,417. The Board participated in the first Study workshop on August 24, 2021 to review and provide input on the project objectives, development of the 'long-list' of alignment alternatives, evaluation criteria, and project costs and affordability. On September 20, 2022, the second Study workshop was held to review the coarse screening analysis of the alignments to select the top two alternatives, an updated project costs and affordability analysis, and recommendations for fine screening including performing a more robust analysis of local water system yield.

FISCAL IMPACT: \$26,672 (total not-to-exceed amount increasing from \$1,863,417 to \$1,890,089).

SUMMARY: The affordability of replacing the Flume depends on the overall costs to run the local water system compared to the option of retiring the Flume and purchasing treated water from the San Diego County Water Authority only. Yield of the local water system is key to this analysis, and a balance scale cost model (coined *To Flume or Not to Flume*) was developed as part of the Water Supply Planning Study (WSPS) that was completed in 2020 by Gillingham Water.

At the conclusion of the WSPS, the *To Flume* option was clearly superior over *Not to Flume* based on the historical long-term average yield of the local water system and a Flume replacement cost estimate of \$120 million. As the Study has progressed, detailed updates and use of the balance scale cost model have been necessary due to construction cost escalations above industry norms (e.g., Flume replacement is now estimated at \$170 million) and the emergence of additional local water system improvements and costs required for the treatment of Harmful Algal Blooms (HABs) at Lake Henshaw (estimated between \$6 million and \$56 million for long-term mitigation improvements). With these increased costs, a more robust assessment of the long-term local yield has been recommended to afford making a *To Flume or Not to Flume* decision with confidence. The requested amendment is to support the updated yield analysis effort, which was not originally scoped as part the Study agreement with Brown and Caldwell.

DETAILED REPORT: Attached for reference is the affordability analysis that was presented to the Board at the second Study workshop that includes a range of project costs for HABs mitigation and a sensitivity analysis with potential reductions in yield. Yield estimates to date have used an approach of looking at long-term averages and adjusting for changed conditions. As part of the fine screening analysis, Brown and Caldwell will update the balance scale cost model and affordability analysis to include the latest information available regarding capital costs and switch to yield estimates based on a predictive model that will account for future variabilities in hydrological and climatological changes.

The predictive yield model will include rainfall/runoff estimates for the watersheds in the local water system including Lake Henshaw, San Luis Rey River, Escondido Canal and Lake Wohlford. The simulation model will run 100 years of monthly hydrology for a number of scenarios and inputs capturing system variability including forecasted climate change (temperature, rainfall, evaporation, etc.), wellfield operations, source water quality and HABs mitigation, Indian Band entitlements, blending requirements at the Escondido-Vista Water Treatment Plant, and potable water deliveries to the District and City of Escondido. Through these simulations, Brown and Caldwell will estimate the future average local yield for use in the balance scale cost model and allow for updating the *To Flume or Not To Flume* analysis.

Although additional analyses for estimating future local water system yield was not envisioned nor scoped in the original Study agreement, the majority of the above work can be completed within the existing budget. However, assistance from Todd Groundwater, as detailed in the attached scope of work, is recommended that requires additional budget. Todd Groundwater developed a comprehensive hydrogeologic groundwater flow model of the Warner Valley basin in 2018 and will be assisting the District with the Warner Wellfield Master Plan in the near future. Additional analyses with the groundwater model under the new climate change scenarios being developed by Brown and Caldwell will confirm inputs for the Warner Valley basin groundwater recharge and yield components of the overall local water system model. Additionally, Todd Groundwater's involvement in the Study will ensure consistency with their future work on the wellfield master plan.

ATTACHMENTS: Flume Replacement Alignment Study Workshop 2 Affordability Analysis
Todd Groundwater Amendment

Section 5

Project Affordability Including the HABs Plan

- Minimum investments at Lake Henshaw may be needed to maintain the District's public trust responsibilities.
- Planning efforts at Lake Henshaw and Warner Basin determined a wider range of possible projects exists, each having varying impacts on the Balance Scale economics.
- Adding the capital costs of local water system improvements does not tip the scale on the decision To Flume so long as local yield is maintained above 2,200 acre-feet per year (afy).
- Sensitivity analyses show that the only reasonable To Flume options also include long-term Harmful Algal Blooms (HABs) mitigation; and the added expenditures are negligible compared to the economic benefits generated by the increased local yield.

5.1 Considering the Range of Future Investments in the Local Water System

Continued investments at Lake Henshaw may be needed independent of the Flume replacement project to maintain the District's public trust responsibilities.

The upper portion of the local water system, managed by the District, is comprised of the Warner Basin wellfield, the ditch system that delivers wellfield water to Lake Henshaw, and the Lake Henshaw Dam. See **Figure 5-1** below for a schematic of the Local Water System.

Continued investments by the District at Lake Henshaw and the Henshaw Dam may be needed independent of implementing the Flume replacement project. These minimum capital expenditures are anticipated in part to maintain the District's obligations to the State's Division of Safety of Dams (DSOD). This constitutes the minimum investment required by the District to maintain its responsibilities to the public trust. This is presented as the "Low Range" project scenario under **Table 5-1**.

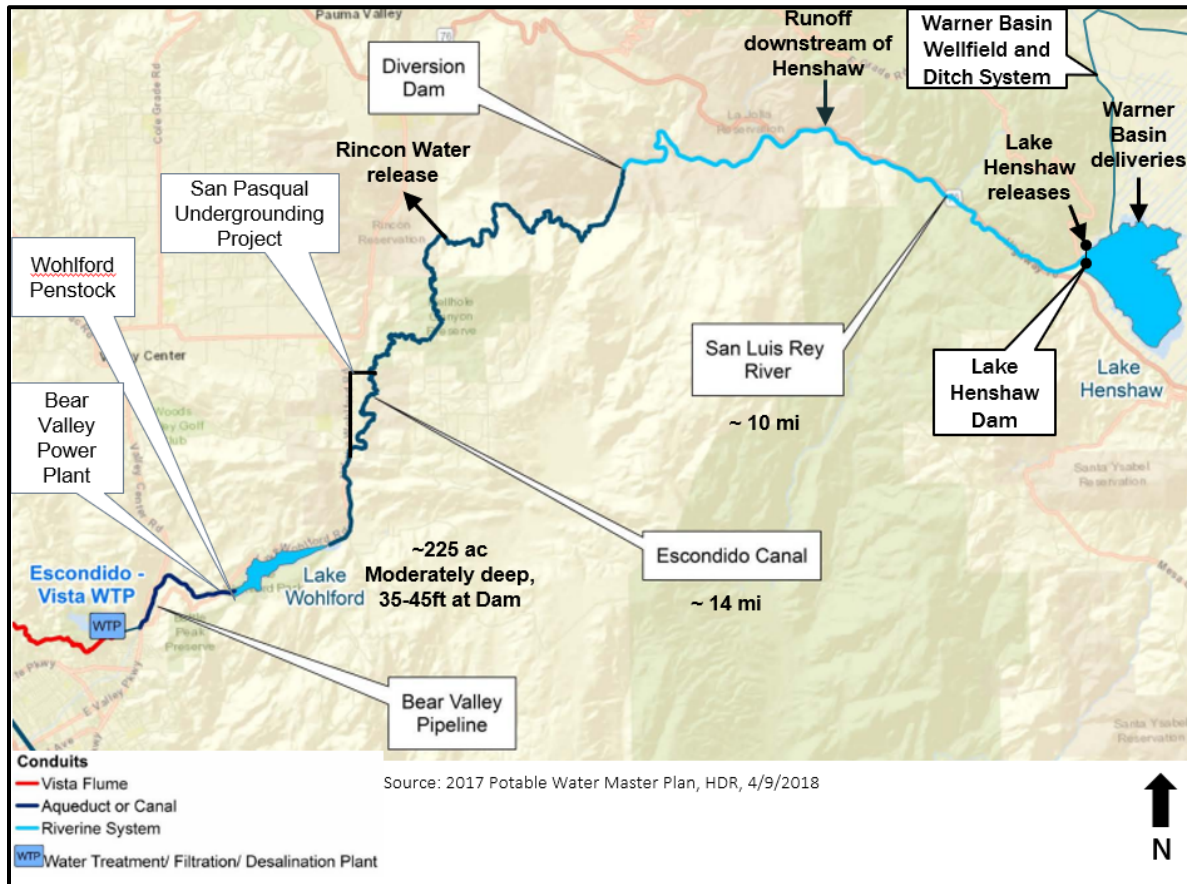


Figure 5-1 – VID's Local Water System Schematic

Planning efforts at Lake Henshaw and Warner Basin determined a wider range of possible project scenarios exists, each having varying impacts on the To Flume Balance Scale economics.

In recent years, particularly since 2018, reoccurrences of HABs in Lake Henshaw have reduced lake releases to historic lows. Additionally, the Warner Basin wellfield operations have also experienced reduced deliveries to Lake Henshaw caused by suboptimal wellhead production rates and failures in the Warner Basin ditch system, both a result of an aging system (i.e., wellheads and ditch systems are exceeding 30-years in age). These issues compounded with the most recent drought have caused the District's share of local yield to fall from a historical 30-year average of approximately 5,000 afy to a recent 3-year average (2018-2021) of approximately 2,000 afy. While the recent low average yields are not statistically representative of a true hydrologic cycle, they are indicative of a local water system that would benefit from strategic investments in restoring its historical operational reliability.

On August 9, 2022, District staff along with consultant Stillwater Sciences conducted a Board workshop to present the findings of the *Lake Henshaw and Lake Wohlford Harmful Algal Blooms Management and Mitigation Plan (HABs Plan)*, dated May 2022. During the Board workshop, the HABs Plan team presented short-term and long-term solutions along with their associated range of costs. District staff stated that a key component to preserving the District's historical yield relies on maintaining the water quality in Lake Henshaw, which in turn allows full access to the runoff it receives. Achieving restored water quality conditions at Lake Henshaw requires implementing multiple HABs solutions in the lake as well as at the wellfield. Additional investments in optimizing

the wellfield also offers the upside benefit of augmenting local yield with the additional sustainable yield produced by the Warner Basin. The range of projects and costs to restore the water quality in Lake Henshaw and optimize the wellfield are presented below in **Table 5-1** as the “Baseline” and “High-range” possible project scenarios.

Table 5-1. Possible Range of Local Water System Projects				
Local Water System Project Scenario	Range of Capital Costs ¹	Anticipated Range of Average Annual Local Yield ^{2,3}		
		Pessimistic	Mid-range	Optimistic
<u>Low-range:</u> - Replace wellheads as needed to preserve historical yield - No long-term in-lake HABS solution - Respond to HABS using algaecide when needed - No lake bypass pipeline or additional operational flexibility	\$6M	1,600	1,800	3,000
<u>Baseline:</u> - Optimize wellfield to achieve allowable sustainable yield ^{4,5} - Implement long-term in-lake HABS solution - Preventative HABS control using chemical treatment - No lake bypass pipeline or additional operational flexibility	\$17M	3,200	4,500	5,500
<u>High-range:</u> - Maximize wellfield to achieve allowable sustainable yield more quickly ^{4,5} - Implement long-term in-lake HABS solution - Preventative HABS control using chemical treatments - Install a lake bypass pipeline for additional operational flexibility	\$56M	4,300	6,000	6,300

- 1) Capital costs presented are in 2022 dollars
- 2) District’s share of the anticipated average annual yield produced by the corresponding scenario
- 3) Yield was approximated based on historical averages, calculated optimized wellfield production, plus the projected effectiveness of HABS mitigation measures
- 4) Warner Basin’s historical yield is ~7,100 afy which equates to a District share of ~1,750 afy
- 5) Warner Basin’s maximum allowable sustainable yield is 9,125 afy, which equates to a District share of ~2,400 afy

Table 5-1 above provides estimated costs, which are based on the cost ranges presented in the HABS Plan plus estimated costs for wellfield improvements prepared by the Alignment Study team. The above effort conceptualizes a range of local water system projects, their probable costs, and the plausible corresponding impacts they might have on the District’s share of average annual local yield. In doing so, **Table 5-1** shows the cost/benefit correlation that local water system investments would have in augmenting the District’s share of average annual local yield.

The above capital cost investments and resulting annual local yield served as inputs into the To Flume or Not to Flume Balance Scale Model. Results of the most recent To Flume or Not to Flume affordability check-in are presented below in **Section 5.2**.

5.2 Affordability Check-In: To Flume or Not to Flume?

Adding the local water system expenditures at Lake Henshaw and Warner Basin does not tip the scale on the decision To Flume; so long as the District’s share of average annual local yield is above 2,200 afy.

The additional capital expenditures needed at Lake Henshaw and the Warner Basin wellfield have tangible effects on the economic viability of the Flume replacement project. These expenditures in



the District's local water system, as described above in **Section 5.1**, add varying degrees of capital costs to both sides of the To Flume or Not to Flume Balance Scale Model (Balance Scale Model). The resulting benefit in each case is an increase to the District's average annual local yield. However, when those local water system costs are combined with a \$170 million Flume replacement project, is the resulting increased local yield enough to keep the balance scale from tipping?

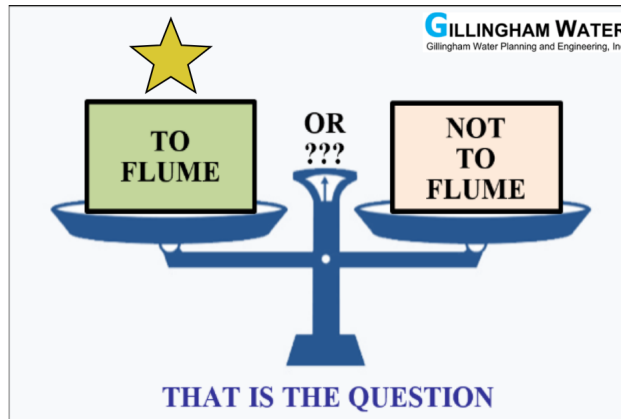


Figure 5-2 – To Flume or Not To Flume Balance Scale

The Balance Scale Model was originally developed by Gillingham Water during the WSPS. The purpose of the model was to find the more favorable long-term solution; being the least costly option to the District, for providing superior supply reliability to its ratepayers and affording the opportunity for continued regional cooperation with neighboring agencies. In doing so, the Balance Scale Model compared the following two scenarios:

- **To Flume** = Replace the existing Flume and continue to fully operate the local water system to the benefit of the District and its neighboring agencies.
- **Not to Flume** = Retire the existing Flume, the District purchases 100% imported treated water, and operates the local water system at a limited capacity, continuing to sell water from Lake Henshaw and Warner Basin to Escondido. In addition, the District will transfer the Boot and Bennett service areas and distribution facilities to Vallecitos Water District, as well as construct additional tank storage at Pechstein needed to accommodate Water Authority aqueduct shut downs.

Its results were presented to the Board in March 2020 and concluded that there was a significant economic advantage **To Flume** over **Not to Flume**. Gillingham Water updated the Balance Scale Model during Phase 2 of this Alignment Study and presented updated results at Board Workshop No. 1 (August 2021). Sensitivity analyses were run on the Balance Scale Model by reducing the District's share of average annual local yield from 5,000 afy down to 4,000 afy. This 20 percent reduction in average annual local yield was intended to account for the effects HABs might have on future yield. At the time, the assumption was conservative, but reasonable, given the unknowns pertaining to the effectiveness of future HABs solutions as the HABs Plan was just underway. The results presented to the Board during Workshop No. 1 of this Alignment Study, which were based on a reduced share of average annual local yield at 4,000 afy, showed a 30-year net present value (NPV) economic advantage **To Flume** of approximately \$70 million, see **Figure 5-3** below.

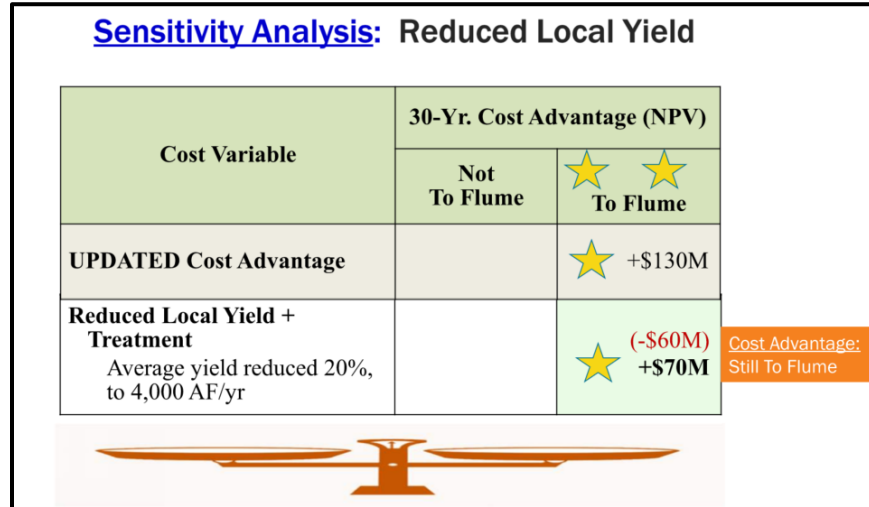


Figure 5-3 – Board Workshop No. 1 Slide Showing To Flume with a Reduced Local Yield

Since Board Workshop No. 1, of this Alignment Study, Stillwater Sciences has completed the initial phase of the HABs Plan and presented its recommendations to the Board. This work has provided more context for better understanding the costs and effectiveness of future HABs mitigation and important inputs in the Balance Scale Model. During the current phase of this Alignment Study (Phase 3), the Balance Scale Model was updated once again to match current knowledge. A listing of the most recent updates made to the Balance Scale Model are listed below in Table 5-2.

Table 5-2. To-Flume vs. Not-to-Flume Balance Scale Model Updates		
Category	To-Flume	Not-to-Flume
Flume Capital Costs	<ul style="list-style-type: none"> - Updated to July 2022 market values - Used \$170M based on the shortlisted alternatives 	<ul style="list-style-type: none"> - Same as To Flume - Used updated Flume demolition costs
System Improvement	<ul style="list-style-type: none"> - Additional treatment costs at EVWTP - San Pasqual Undergrounding is now a sunk cost 	<ul style="list-style-type: none"> - Larger Pechstein II w/ additional storage during Water Authority Shutdowns - Purchase supply capacity from Oceanside’s Weese WTP - Increased Boot & Bennett transfer costs - San Pasqual Undergrounding is now a sunk cost
Local Water System Investments	<ul style="list-style-type: none"> - New costs added for Lake Henshaw long-term HABs mitigation - Accelerated pace of Warner Basin well replacements; six new wells up front 	<ul style="list-style-type: none"> - New costs added for Lake Henshaw long-term HABs mitigation - Accelerated pace of Smaller Warner Basin well replacements; three new wells up front
Other Input Values	<ul style="list-style-type: none"> - Water Authority Rates - Financial Terms (Inflation rate, discount rate, melded cost of funds) - Local yield per “Mid-range” shown in Table 5-1 above 	<ul style="list-style-type: none"> - Same as To Flume

When applying the above considerations to the Balance Scale Model the 30-year NPV cost advantage continues to tip the scale To Flume by approximately \$130 million at an anticipated local yield of 4,500 afy. Only under circumstances when the District's share of average annual local yield is below 2,200 afy would the cost advantage breakeven with the Not to Flume option. However, there are more details to consider, and important takeaways to learn, from the Balance Scale Model sensitivity analyses presented below.

Sensitivity analyses show that the only reasonable To Flume options also include long-term HABs mitigation; and the added expenditures in the local water system are negligible compared to the economic benefits generated by the increased local yield.

Since future local water system projects are in the early stages of planning, a reasonable range of project costs and estimated local yields were needed for Balance Scale Model sensitivity analyses. The range of projects used were as defined above in **Table 5-1**. Those varying local water system costs and corresponding local yields were applied to a "baseline" condition in the Balance Scale Model. The model inputs, which comprise this baseline condition, are listed below in **Table 5-3**.

Table 5-3. Baseline Condition Summary – To Flume		
Component	Assumption	Description / Detail
Costs	Costs for all line items set at Mid-Range estimates	<ul style="list-style-type: none"> Flume replacement costs based on Alignment Alt. 1 San Pasqual Undergrounding costs removed (these are now sunk costs)
Finance	Capital costs financed via revenue bonds and WIFIA loans	<ul style="list-style-type: none"> Planning costs up through EIR certification are PAYGO Construction and all construction-related costs are FINANCED Option to set Engineering Final Design costs as PAYGO or FINANCED
HABs	Adverse effects minimized via cost-effective prevention and mitigation measures	<ul style="list-style-type: none"> Use middle of Stillwater cost estimates No bypass pipeline Escondido pays 50% of costs
Wellfield	Restored to historical production levels	<ul style="list-style-type: none"> New wells up front, 6 for To Flume and 3 for Not To Flume Sinking fund for OMRR sufficient to maintain well capacity over long-term Escondido pays ~35% of costs
Delivery Reliability Mitigation	\$60M cost allowance for new treated water storage and/or other delivery reliability improvements	<ul style="list-style-type: none"> Costs moderated by the potential for one or more of <ul style="list-style-type: none"> Desal to P3; P4 Isolation Valve; or Supply from Weese
Average Annual Local Yield (to District) ¹	4,500 AF/yr (Baseline) ²	<ul style="list-style-type: none"> <u>Hydrology</u>: Long-term average <u>Well-Field Capacity</u>: Restored (to historical average) <u>HABs Mitigation and Effect</u>: Baseline mitigation; still results in 5-10% reduction in average yield <u>Climate Change</u>: Results in 0-10% reduction in average yield <u>EWTP Local Water Blend Ratio</u>: Same as current <u>Wohlford Storage Capacity</u>: Restored via new dam
SDCWA Rate Escalation	Per SDCWA Long-Range Finance Plan	<ul style="list-style-type: none"> Mid-Range of SDCWA long-range forecast through CY22 Thereafter, 0.5% above Water System Base Inflation rate
Exchange Benefits	Escondido purchases portion, but not all, of District supply	<ul style="list-style-type: none"> Escondido ability to utilize District share of local water constrained by demands and by the Local Water Blend Ratio of 40% Escondido able to purchase on average 2,500 AF/yr Unit sales price represents discount in comparison to Escondido purchase of raw water from SDCWA
Boot and Bennet Transfer	District pays most of the Vallecitos list-price costs	<ul style="list-style-type: none"> Absent the Flume, District will need to transfer these service areas to Vallecitos District pays transfer costs to Vallecitos as follows: <ul style="list-style-type: none"> <u>Annexation Fees</u>: in full <u>Capacity Fees</u>: in full <u>Infrastructure transfer fee</u>: split 50/50 with Vallecitos

1) Sensitivity analysis presented below adjusted this value using the ranges of projects, costs, and yields shown in **Table 5-1**

2) Per “Mid-range” value shown in **Table 5-1**

Table 5-4 below shows the results of the sensitivity analysis performed using the Balance Scale Model. Under all scenarios where long-term HABs mitigation is implemented, the cost advantage continues to favor the To Flume option. However, when long-term HABs mitigations are not implemented, the resulting reduction in local yield can tip the scale toward Not to Flume.



Table 5-4. Balance Scale Model Sensitivity Analysis					
Possible Investment Strategies	To Flume (\$M) ³	Not to Flume (\$M) ^{3,4}	Cost Advantage (\$M) ^{3,4,5}	Anticipated Yield (afy) ^{5,6}	Break-even Yield (afy) ⁷
Baseline Condition ¹ <u>without</u> HABs mitigation (Low-range ²)	\$260M	\$240M	<u>Not To Flume</u> \$20M	2,000 afy	2,200 afy
Baseline Condition ¹ <u>with</u> HABs mitigation (Baseline ²)	\$280M	\$410M	<u>To Flume</u> \$130M	4,500 afy	2,200 afy
Baseline Condition ¹ <u>with</u> HABs mitigation plus optimized wellfield and bypass pipeline (High-range ²)	\$310M	\$500M	<u>To Flume</u> \$190M	6,000 afy	2,200 afy

- 1) See **Table 5-3** for definition
- 2) See **Table 5-1** for definition
- 3) Costs are 30-year net present value and are rounded to the nearest \$10M
- 4) Not to Flume assumes District retires the Flume and continues to sell local water to Escondido to help offset costs of retirement
- 5) Costs presented are a function of average annual local yield; note, as anticipated local yield increases so does the cost advantage To Flume.
- 6) District's share of anticipated average annual yield produced by the corresponding scenarios shown on **Table 5-1**
- 7) District's share of average annual local yield needed for there to be no cost advantage between To Flume and Not to Flume

This analysis has quantified the value the ecologic health of Lake Henshaw has on the economic viability of the Flume replacement project. It also found that the anticipated local water system expenditures are relatively small compared to the economic advantage gained by the increased local yield.

For example, from **Table 5-4** above, the “Low-range” expenditure estimated to produce an average annual local yield of 2,000 afy, which results in a To Flume project cost of \$260 million and a Not To Flume project cost of \$240 million on a 30-year NPV basis. At this specific yield-to-cost relationship, the Not To Flume option has a 30-year NPV cost advantage over To Flume by approximately \$20 million. Now, if the District continues to fully operate and maintain its local water system, the “Baseline” option’s 30-year NPV cost To Flume would increase to \$280 million while Not to Flume would increase more greatly to \$410M. The corresponding increase in local yield and resulting avoided cost of purchasing treated water, achieved by these investments effectively tips the scales toward the To Flume option. At this specific yield-to-cost relationship, To Flume is estimated to have a 30-year NPV cost advantage of \$130 million over Not to Flume. The key difference between these two scenarios is the implementation of long-term HABs mitigation measures.

The District may move forward with confidence that investments in the local water system resulting in improved local yield will have significant economic advantage to the District and its ratepayers.

From the above analysis, it was estimated that for every 100 afy the District adds to its share of local yield the corresponding cost advantage To Flume increases by \$6.7 million on a 30-year NPV basis. This metric supports the notion that investing in the local water system pays in dividends, as the additional costs for improvements are low compared to the economic advantages gained by the increased local yield. Since the economic advantages of To Flume are so tightly connected to local yield, it would be prudent to consider implementing the improvements to Lake Henshaw and the Warner Basin wellfield within the same CIP window as the Flume’s replacement. However, the projects are complex and packaging them together as one large capital project is not recommended without further consideration and closer study.



5.3 Considering Divestment Options Is Underway

Previous versions of the Balance Scale Model limited the Not to Flume option to retiring the Flume while continuing to sell local water to Escondido, but other variations of Not to Flume exist and are currently being considered.

The work presented in **Section 5.2** compares the To Flume option against Not to Flume, in which the District continues its responsibilities for the local water system and recovers costs by selling a portion of its unused entitlement to Escondido. This begs the question, is there a cost advantage to simply walking away from these commitments? At the time this Board packet was developed the Alignment Study team began evaluating variations of the Not To Flume option which included divestment. This would consider scenarios where the District retires the Flume, exercises its contract right to walk away from the local water system, and no longer generates revenue by selling its unused entitlement of the annual local yield.

The project team will report preliminary findings of the initial sensitivity analyses pertaining to divestment at Workshop No. 2. Additionally, this work will be incorporated into the follow-on affordability check-in work, which will be conducted during Phase 4 – Fine Screening and presented at Board Workshop No. 3.

July 7, 2023

Greg Keppler, P.E., QSD
Engineering Project Manager
Vista Irrigation District
1391 Engineer Street
Vista, CA 92081

**Subject: Request for Amendment Adding TODD Groundwater
to the Vista Irrigation District Flume Replacement Alignment Study**

Dear Mr. Keppler,

Herein contains the Brown and Caldwell (CONSULTANT) fee proposal to add TODD Groundwater (SUBCONSULTANT) to the Vista Irrigation District's (DISTRICT) Flume Replacement Alignment Study. This amendment will serve to coordinate the ongoing predictive climate modeling work being performed by the CONSULTANT as part of the Flume Replacement Alignment Study with the Warner Basin optimization work to be performed by the SUBCONSULTANT once the Well Optimization Study commences. This work will be using a wider variety of climate conditions developed by the CONSULTANT to refine predictive precipitation, recharge, and long-term sustainable yield of the Warner Basin. The purpose is to apply these refined values to the Flume Alignment Study balance scale model for a more thorough understanding of the long-term economic viability of a flume replacement.

The work performed by the prime CONSULTANT under this amendment is solely in support of the SUBCONSULTANT's work as described under Attachment B herein. The CONSULTANT's support will include project coordination meetings, peer reviews, preparations for the Board Workshop, and subconsultant management. The predictive climate modeling work being performed is currently scoped and budgeted under the original Flume Replacement Alignment Study agreement.

FEE

The total fee for the services rendered under this amendment is **\$26,672**. A table detailing the personnel, hours, rates, subconsultant costs and other direct costs is attached. Services rendered will be invoiced to the DISTRICT monthly on a time-and-materials basis.

PROJECT SCHEDULE

This work is to be completed by the Fall 2023 special Board workshop pertaining to the Flume Alignment Study.

Thank you once again for selecting our team to perform this important project. Please contact me at (858) 571-6726 or jpsemper@brwncald.com with any questions or comments pertaining to this proposal.

Very truly yours,
BROWN and CALDWELL

John P. Semper, PE, ENV SP
Project Manager

Attachments:

- Attachment A – Fee Schedule
- Attachment B – TODD Groundwater Fee Proposal

ATTACHMENT A

Fee Schedule

Vista Irrigation District
Flume Replacement Alignment Study
Amendment adding TODD Groundwater to FRAS

Task	Phase Description	Semper, J.P. PM	Sprague, Tess Senior Climate Specialist	Foged, Nathan Climate Modeler	Suesser, Thomas Staff Eng. Climate	Total Labor Hours	Total Labor Effort	TODD GW Groundwat er Modeling	Sub Markup 5%	Total Sub Cost	Total Expense Cost	Total Effort
		\$293.84	\$183.90	\$298.06	\$126.96							
000	Predictive Modeling of Long-term Local Yield	4	8	4	12	28	5,362	20,295	1,015	21,310	21,310	26,672
010	Coordinate Precip, Recharge, and Simulated Change to Yield	4	8	4	12	28	5,362	20,295	1,015	21,310	21,310	26,672
GRAND TOTAL		4	8	4	12	28	5,362	20,295	1,015	21,310	21,310	26,672

Hours and Dollars are rounded to nearest whole number. To display decimals, change the format of the cells.

ATTACHMENT B

TODD Groundwater Fee Proposal

July 7, 2023

MEMORANDUM PROPOSAL

To: Don Smith, Greg Keppler, and Randy Whitman, Vista Irrigation District
J.P. Semper, Brown & Caldwell

From: Gus Yates, PG, CHG and Chad Taylor, PG, CHG

Re: Climate Change and Sustainable Yield Simulation in Coordination with
Brown & Caldwell, Warner Wellfield, Vista Irrigation District

Vista Irrigation District (VID) has retained Brown and Caldwell, Inc. (B&C) to conduct the Flume Replacement Alignment Study. Several flume replacement analyses are being considered as part of this study. Of particular importance in these analyses is the economic viability of a flume replacement in consideration of the long-term sustainable yield of the Warner Groundwater Basin and its respective sensitivity to climate change impacts over the useful life of the replaced flume. As part of these analyses, VID and B&C would like to simulate changes to the hydrology of the Warner Basin with climate change and assess the range of sustainable yield that can be expected with varying climate change conditions. We have prepared the scope of work below to apply the existing Warner Basin groundwater model to simulate climate change conditions as a subconsultant to B&C.

Task 1. Coordinate and Review Climate Change Precipitation and Recharge Information with Brown & Caldwell Modeling Team

This task consists of reviewing B&C analysis tools and assisting B&C in defining climate inputs for scenarios. In conjunction with its economic model, B&C has developed a simplified rainfall-runoff model of the Warner Basin watershed with associated groundwater recharge and yield estimates. The simplified model will be reviewed for conceptual and quantitative consistency with the existing groundwater model and its recharge pre-processor. Implementation of climate change variables will be reviewed to determine whether they appropriately maintain the long critical drought period of 1945-1977 and other factors influencing groundwater yield.

Task 2. Simulate Effects of Climate Change on Sustainable Yield Estimates

The simulation of climate change effects in our previous modeling effort used the monthly multipliers for precipitation and reference evapotranspiration (ET_0) developed by the California Department of Water Resources (DWR) for use in preparing groundwater sustainability plans (GSPs). Recently, B&C has developed a larger suite of climate change scenarios derived from various climate change models. In this task, up to five new climate

scenarios will be simulated. These scenarios will use precipitation and ET_0 information developed by B&C and might reflect dry, normal, wet, and/or more variable conditions. The climate conditions to be simulated will be jointly selected and defined by B&C, Todd, and VID. Another goal is to use the wider variety of climate conditions developed by B&C for the Well Optimization Study once it commences.

These climate change model simulations will assume the existing VID well locations and that those wells have been retrofitted with variable frequency drive (VFD) pumps allowing the wells to pump target amounts of water regardless of water level changes. The future climate condition will be applied throughout the 78-year simulation, not phased in during the course of the simulation. Although not included in this standalone task order, the intent of coordinating the B&C work now as part of the Flume Replacement Alignment Study is to accommodate future well location optimization with the wider variety of climate conditions developed by B&C once the Well Optimization Study commences.

Future climate conditions will be implemented as adjustments to the historical time series of daily precipitation and ET_0 , which are the climate-related inputs to the model pre-processing programs. The pre-processors estimate recharge and stream flow from those inputs.

For all simulations, Lake Henshaw will be represented as a set of constant-head cells in the top model layer, as was done for scenarios in our previous study. Although implementing the MODFLOW lake package was attempted during model calibration, it proved to be problematic. First, minor changes in basin-wide water balance resulted in large rising or falling lake level trends. Also, flows of water to or from streams reported in the lake water budget did not match the ones reported in the stream water budget, which might be a programming error. The constant-head (CHD) package of MODFLOW will fix the lake level at a user-specified elevation and calculate the amount of water that would have to flow out of the lake to maintain that level. This constitutes the raw time series of deliveries to downstream users (plus spills). The time series will be post-processed in Excel to allow for temporary fluctuations in lake level—mainly increases during and after wet months—and changes in evaporative losses associated with those fluctuations.

Simulation results will be evaluated to estimate sustainable yield for the Warner Basin in each future scenario.

Task 3. Board Workshop and Summary Technical Memorandum

We will prepare for and attend a VID Board Workshop in the Fall of 2023 to present the results of the work described above to the Board with B&C and provide a technical memorandum (TM) summarizing the work and presenting modeling and sustainable yield results. Senior hydrologist and modeler Gus Yates will attend the workshop in person.

Task 4. Project Management

This task covers the relatively small amount of time needed for contract administration, invoicing and staff coordination.

Budget

We estimate the costs associated with this scope of work at \$20,295, as shown in the attached Table 1. Todd Groundwater submits monthly invoices on a time and materials basis in accordance with the attached Schedule of Charges. We regard this as a not-to-exceed budget and we will not bill in excess of the total estimated costs without your prior written approval. If additional technical labor is required costs will be assessed and may be added to the scope via change orders.

Table 1. Cost Estimate



Job Name: VID Warner Basin Wellfield Climate Change and Sustainable Yield Assessment

Client: Vista Irrigation District

	Principal Hours \$240	Senior Hydrologist Hours \$240	Associate Hydrogeologist Hours \$180	GIS / Graphics Hours \$135	Admin Hours \$125	Todd Labor Hours	Travel Costs	Todd Groundwater Costs
Task 1. Coordinate and Review Climate Change Precipitation and Recharge Information with Brown & Caldwell Modeling Team	1	5	1	0	0	7	\$0	\$1,620
Task 2. Simulate Effects of Climate Change on Sustainable Yield Estimates	1	18	32	0	0	51	\$0	\$10,320
Task 3. Board Workshop and Summary Report	2	15	5	5	0	27	\$1,000	\$6,655
Task 4. Project Management	5	0	0	0	4	9	\$0	\$1,700
Total Estimate	9	38	38	5	4	94	\$1,000	\$20,295



PLANNING • DEVELOPMENT • MANAGEMENT • PROTECTION

SCHEDULE OF CHARGES

January 2021

Title	Name	Agency Rate
Officer/President	Iris Priestaf	\$ 255
Officer/Vice President	Phyllis Stanin	\$ 255
Principal Hydrogeologist	Michael Maley	\$ 240
Principal Hydrogeologist	Chad Taylor	\$ 240
Consulting Hydrogeologist	Sally McCraven	\$ 240
Senior Hydrogeologist	Dan Craig	\$ 240
Senior Hydrologist	Gus Yates	\$ 240
Senior Hydrogeologist	Liz Elliott	\$ 235
Senior Engineer	Maureen Reilly	\$ 235
Associate Engineer	Lindsay Hall	\$ 200
Associate Geologist	Brent Johnson	\$ 180
Associate Geologist	Arden Wells	\$ 180
Staff Geologist	Garrett Erickson	\$ 150
Staff Geologist	Nicole Grimm	\$ 145
Staff Geologist	Evan Bosinger	\$ 145
Staff Geologist	Edward Potts	\$ 145
Graphics Coordinator	Michael Wottrich	\$ 135
Office Manager	Cynthia Obuchi	\$ 125

Travel Time

Travel time will be charged at regular hourly rates.

Litigation, Depositions, and Testimony

Deposition and trial testimony are charged at twice hourly rates.



STAFF REPORT

Agenda Item: 10

Board Meeting Date: July 19, 2023
Prepared By: Don Smith
Approved By: Brett Hodgkiss

SUBJECT: WARNER-CARRILLO RANCH HOUSE MAINTENANCE

RECOMMENDATION: Authorize the General Manager to execute an amendment to the agreement for services with Mark Sauer Construction, Inc. to substitute a natural hydraulic lime plaster system for the existing exterior whitewash coating for the Warner-Carrillo Ranch House for a cost of \$26,000, increasing the not-to-exceed amount to \$76,000.

PRIOR BOARD ACTION: On October 5, 2022, the Board authorized the General Manager to enter into an agreement for services with Mark Sauer Construction, Inc. (MSC) to perform maintenance to the Warner-Carrillo Ranch House in an amount not to exceed \$50,000.

FISCAL IMPACT: Not-to-exceed \$76,000; the previously authorized \$50,000 and the additional \$26,000 are unbudgeted expenses.

SUMMARY: Since October 2022, a reorganization of Mark Sauer's business and the intervening wet winter have delayed the repairs authorized in the District's agreement with MSC. The scope of work authorized in the October 2022 agreement was primarily to perform repairs to doors and windows and other interior repairs; however, it did include an allowance of about \$10,000 to repair the recently failed exterior whitewash. With additional weathering occurring over the wet winter months, the District has inquired about a more durable alternative to the original whitewash exterior coating, which requires annual or semi-annual repair to protect the underlying adobe walls.

In response, MSC has proposed a natural hydraulic lime coating system to replace the original whitewash. The proposed hydraulic lime coating, which has been used on numerous historic adobe structures including several in Old Town San Diego, has similar aesthetic characteristics to whitewash, but with an expected lifetime of five to ten years versus the one to two years achieved with the whitewash. The cost of the material and labor to apply the hydraulic lime system is about \$36,000 (\$26,000 more than the original amount allocated for whitewash); however, it replaces an annual or semi-annual expense of about \$10,000 to maintain the whitewash coating system. Staff is recommending the use of the hydraulic lime coating based on the longer life expectancy of the product.

ATTACHMENT: Revised Mark Sauer Construction, Inc. proposal dated June 19, 2023



Proposal REVISED

Project:

Warner Ranch Adobe

6/19/23

Sent Electronically

General Restoration Carpentry and Painting

Item #1

Preservation Maintenance Carpentry

- Care to all doors and windows
- Repair 3 door jams
- Repair/Replace wood siding that is cupping.
- Additional crack repairs on the interior
- Paint and or Stain/Oil repairs as needed
- Interior adobe repairs around door jams that are to be repaired
- Misc. adobe crack repair.
- Whitewash (lime wash) interior adobe repairs
- Wood gutter repairs
- Shutter adjustments
- Window sash repairs and window hardware repairs/replacements

Thirty-Eight Thousand Seven Hundred & 00/xx

\$38,780.00

Item #2

Exterior Wall Repair

- Application of new Natural Hydraulic Lime Plaster System *See Attached Photo Scope of Work*
- Installation of expanded wire lath
- Application of NHL system
- Installation of wood ledger at front elevation for weather proofing
 - No additional application of lime paint or latex paint.

Thirty-Six Thousand Nine Hundred & 00/xx

\$36,900.00

Total

\$75,680.00

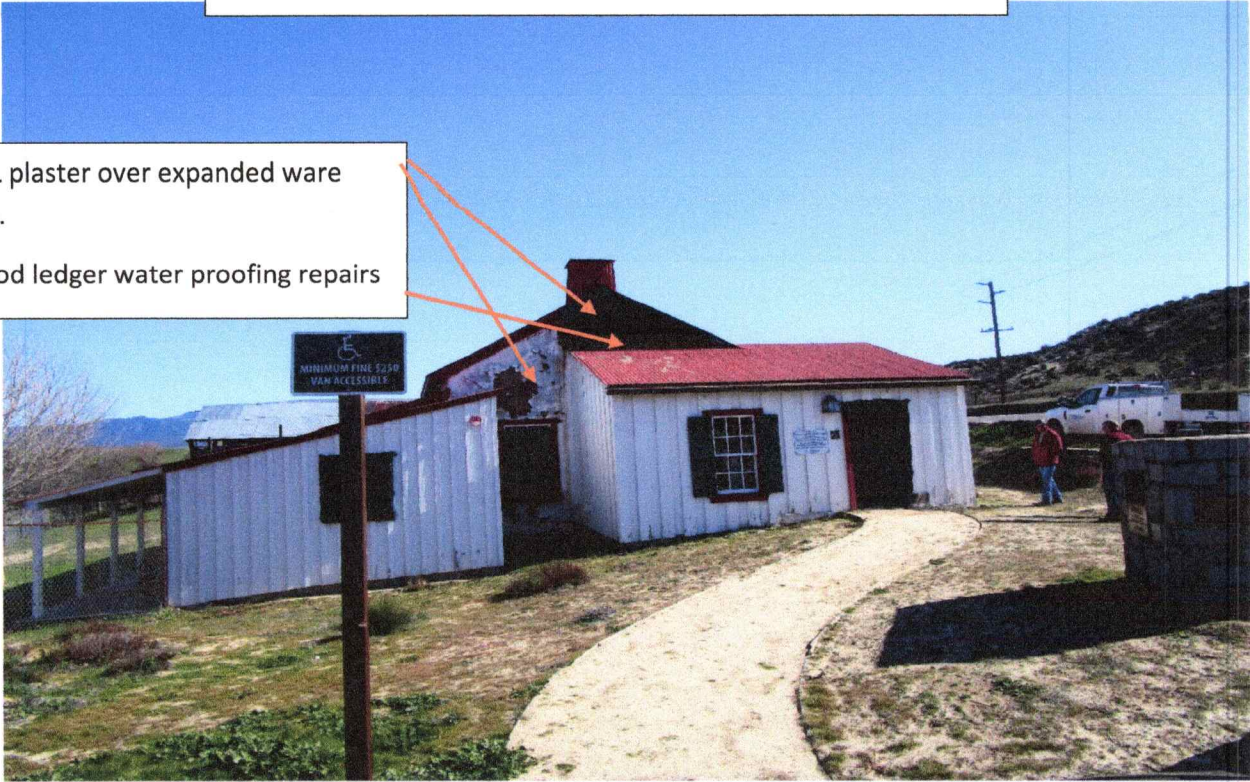


Mark Sauer, President & CEO

Date 6/19/23

Warner Carrillo Adobe
Exterior Natural Hydraulic Lime Plaster

NHL plaster over expanded wire lath.
Wood ledger water proofing repairs



NHL Plaster entire elevation





Agenda Item: 11

STAFF REPORT

Board Meeting Date: July 19, 2023
Prepared By: Brett Hodgkiss

SUBJECT: MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

SUMMARY: Informational report by staff and directors concerning the San Diego County Water Authority. No action will be required.



STAFF REPORT

Agenda Item: 12.A

Board Meeting Date: July 19, 2023
Prepared By: Lisa Soto
Approved By: Brett Hodgkiss

SUBJECT: REPORTS ON MEETINGS AND EVENTS ATTENDED BY DIRECTORS

SUMMARY: Directors will present brief reports on meetings and events attended since the last Board meeting.



STAFF REPORT

Agenda Item: 12.B

Board Meeting Date: July 19, 2023
Prepared By: Lisa Soto
Approved By: Brett Hodgkiss

SUBJECT: SCHEDULE OF UPCOMING MEETINGS AND EVENTS

SUMMARY: The following is a listing of upcoming meetings and events. Requests to attend any of the following events should be made during this agenda item.

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
1	Southern California Water Coalition Quarterly Meeting <i>July 28, 2023; Noon-2:00 p.m.; The Crossings at Carlsbad</i> <i>Registration deadline: 7/25/23</i>	Vásquez (R) MacKenzie (R)
2 *	Vista Chamber Government Affairs <i>Aug. 3, 2023; Noon-1:30 p.m.; The Film Hub, Vista</i> <i>Registration deadline: None</i>	Kuchinsky ◊
3 *	CSDA Quarterly Meeting <i>Aug. 17, 2023; 6:00 p.m.; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Registration deadline: TBD</i>	MacKenzie
4	Urban Water Institute Annual Water Conference <i>Aug. 23-25, 2023; Hyatt Regency Mission Bay</i> <i>Registration deadline: 8/18/23</i>	MacKenzie (R, H) Vásquez (R, H)
5	CSDA Annual Conference <i>Aug. 28-31, 2023; Monterey Conference Center</i> <i>Registration deadline: Early-bird deadline: 8/5/23</i>	MacKenzie (R) Sanchez (R, H)
6 *	Vista Chamber Government Affairs <i>Sept. 7, 2023; Noon-1:30 p.m.; The Film Hub, Vista</i> <i>Registration deadline: None</i>	Kuchinsky ◊
7	Effective Meeting Management through Parliamentary Procedure (CSDA) <i>Sept. 12, 2023; Live webinar</i> <i>Registration deadline: TBD</i>	
8	Sixth Annual Western Groundwater Congress <i>Sept. 12-14, 2023; Los Angeles Marriott Burbank Airport Hotel</i> <i>Registration deadline: 8/29/23</i>	Vásquez (R, H)
9 *	Vista Chamber Government Affairs <i>Oct. 5, 2023; Noon-1:30 p.m.; The Film Hub, Vista</i> <i>Registration deadline: None</i>	Kuchinsky ◊
10	CALAFCO Annual Conference <i>Oct. 18-20, 2023; Hyatt Regency, Monterey</i> <i>Registration deadline: TBD</i>	
11	Special District Leadership Academy (CSDA) <i>Oct. 22-25, 2023; Hyatt Regency Sonoma Wine Country;</i> <i>Early-bird deadline: 9/22/23</i>	Kuchinsky
12 *	Vista Chamber Government Affairs <i>Nov. 2, 2023; Noon-1:30 p.m.; The Film Hub, Vista</i> <i>Registration deadline: None</i>	Kuchinsky ◊
13 *	CSDA Quarterly Meeting <i>Nov. 16, 2023; 6:00 p.m.; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Registration deadline: TBD</i>	

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
14	ACWA Fall Conference <i>Nov. 28-30, 2023; Indian Wells</i> <i>Registration deadline: TBD</i>	Kuchinsky (T) Sanchez
15 *	Vista Chamber Government Affairs <i>Dec. 7, 2023; Noon-1:30 p.m.; The Film Hub, Vista</i> <i>Registration deadline: None</i>	Kuchinsky ◊
16	Colorado River Water Users Association Conference <i>Dec. 13-15, 2023; Paris, Las Vegas</i> <i>Registration deadline: TBD</i>	

* *Non-per diem meeting except when serving as an officer of the organization*

The following abbreviations indicate arrangements that have been made by staff:

R=Registration; **H**=Hotel; **A**=Airline; **S**=Shuttle; **C**=Car; **T**=Tentative; ◊=Attendee to Self-Register



Agenda Item: 13

STAFF REPORT

Board Meeting Date: July 19, 2023
Prepared By: Brett Hodgkiss

SUBJECT: ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

SUMMARY: This item is placed on the agenda to enable the Board to identify and schedule future items for discussion at upcoming Board meetings and/or identify press release opportunities.

Staff-generated list of tentative items for future agendas:

- Association of California Water Agencies (ACWA) elections (August)
 - President and Vice President (electronic voting from July 17 to September 15, 2023)
 - Region 10 Board of Directors (electronic voting from July 17 to September 15, 2023)
- ACWA Committees (August – applications due September 30, 2023)
- California Special District Association Committees and Expert Feedback Teams (August)
- Naming of District Facilities/Rename Edgehill Reservoir after former Director Paul Dorey (August)
- Board meeting participation via teleconference (August)
- Health Benefits Update (September/October)



STAFF REPORT

Agenda Item: 14

Board Meeting Date: July 19, 2023
Prepared By: Lisa Soto

SUBJECT: COMMENTS BY DIRECTORS

SUMMARY: This item is placed on the agenda to enable individual Board members to convey information to the Board and the public not requiring discussion or action.



STAFF REPORT

Agenda Item: 15

Board Meeting Date: July 19, 2023
Prepared By: Brett Hodgkiss

SUBJECT: COMMENTS BY GENERAL COUNSEL

SUMMARY: Informational report by the General Counsel on items not requiring discussion or action.



STAFF REPORT

Agenda Item: 16

Board Meeting Date: July 19, 2023
Prepared By: Brett Hodgkiss

SUBJECT: COMMENTS BY GENERAL MANAGER

SUMMARY: Informational report by the General Manager on items not requiring discussion or action.