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

January 19, 2022

An Adjourned Meeting of the Board of Directors of Vista Irrigation District was held on Wednesday, January 19, 2022, at the offices of the District, 1391 Engineer Street, Vista, California.

#### 1. CALL TO ORDER

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

#### 2. ROLL CALL

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

Directors absent: Dorey

Staff present: Brett Hodgkiss, General Manager; Lisa Soto, Secretary of the Board; Don Smith, Director of Water Resources; Randy Whitmann, Director of Engineering; Frank Wolinski, Director of Operations and Field Services; Marlene Kelleher, Director of Administration; Shallako Goodrick, Finance Supervisor; and Ramae Ogilvie, Administrative Assistant. Interim General Counsel Jennifer Farrell of Rutan & Tucker was also present.

Other attendees: Three members of the public were present in the Boardroom and four were present via teleconference, all related to agenda Item 7.

#### 3. PLEDGE OF ALLEGIANCE

Director Vásquez led the pledge of allegiance.

#### 4. APPROVAL OF AGENDA

22-01-09 Upon motion by Director MacKenzie, seconded by Director Vásquez and unanimously carried (4 ayes: Vásquez, Sanchez, MacKenzie and Miller; 1 absent: Director Dorey), 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

22-01-10 Upon motion by Director Sanchez, seconded by Director Vásquez and unanimously carried (4 ayes: Vásquez, Sanchez, MacKenzie and Miller; 1 absent: Director Dorey), the Board of Directors approved the Consent Calendar, including Resolution No. 22-06 approving disbursements.

## A. Agreement with Burke, Williams & Sorensen, LLP for General Counsel legal services

See staff report attached hereto. Staff recommended and the Board authorized the General Manager to execute an Agreement for Legal Services with Burke, Williams & Sorensen, LLP to provide legal services as General Counsel for the District.

#### B. Valve operating system

See staff report attached hereto. Staff recommended and the Board approved the purchase of E.H. Wachs automated valve operating system in the amount of \$77,723.50.

#### C. Acknowledgement of easements

See staff report attached hereto. Staff recommended and the Board acknowledged existing easements via Parcel Map for a multi-family development known as Silverado Townhomes, consisting of 62 attached condominium units on approximately 4.9 gross acres owned by KB Home Coastal, Inc., located at 425 Smilax Road, Vista (TM 5634; LN 2021-019; APNs 217-191-02 and 217-191-03; DIV NO 5).

D. Minutes of Board of Directors meeting on January 5, 2022

The minutes of January 5, 2022 were approved as presented.

E. Resolution ratifying check disbursements

#### **RESOLUTION NO. 22-06**

BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby approve checks numbered 68463 through 68554 drawn on Union Bank totaling \$501,987.02.

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 19<sup>th</sup> day of January 2022.

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#### 7. WATER RATES AND TIERED WATER RATE STRUCTURE

See staff report attached hereto.

Director of Administration Marlene Kelleher provided an overview of the proposed water rate and service charge increases including the pass through of San Diego County Water Authority (Water Authority) costs and annual inflationary adjustments for a five-year period and modifications to the tiered water rate structure allotments via a PowerPoint presentation (attached hereto as Exhibit A).

Director Vásquez stated that he was opposed to the decrease in the Tier 1 allotment in the proposed tiered water rate structure. He referenced the concerns of the customers who wrote letters of protest stating that they were already conserving as best as they could to stay within the current Tier 1 allotment (10 units). Director Vásquez explained that reducing the Tier 1 allotment would cause these customers, many of whom are low-income or on fixed incomes, to pay Tier 2 rates and cost them more money.

Ms. Kelleher elaborated on the methodology used, explaining that the modification to the Tier 1 allotment was consistent with the methodology used in 2009 when Tier 1 was originally established and was based on a 50% of average usage by a typical customer and then allocated based on hydraulic capacity by meter size. Director MacKenzie stated that she is sympathetic to the customers who are already conserving and have reduced their water usage dramatically over the years. She stated that the dilemma is that the District's goal is to ensure that customers have water when they turn on their taps; unfortunately, the cost of maintenance, repairs and projects continues to go up. It was noted that the District last raised its portion of the commodity rate in 2009.

President Miller stated that the State of California is moving towards a conservation mandate, which will force water usage cutbacks and decrease the District water sales revenue during a time when the cost of operating and maintaining the District's water system continues to go up. President Miller pointed out that the District is committed to using \$7 million of reserves to lessen the burden on ratepayers, and the revenue created by the proposed rate increase will be used to operate and maintain the District's water system.

President Miller asked how much of the \$4.72 Tier 1 rate will go to the District. Ms. Kelleher responded approximately 40 cents; the balance pays for water purchased from the Water Authority. President Miller stated that he believes that the public's general misconception is that the entire \$4.72 goes directly to the District when in fact less than 10 percent of the Tier 1 water rate will go to the District.

Director Sanchez suggested that President Miller open the public hearing to hear the concerns of the members of the public in attendance.

At 9:28 a.m. Director Miller opened the public hearing.

James Harkins, homeowner in Vista, expressed opposition to the proposed service charge increase, stating that he believes that the service charge should be based on volume of water used and not on the size of the meter. He said he is able to control the amount of water used but is unable to control the size of his meter. Mr. Harkins further stated that a large family is going to use much more water than a household of one or two people; therefore, the service charge should be based on usage and the cost of the water, not meter size.

Melissa Sliffe, a 36-year resident of Vista, stated that she and her family have been diligent in their conservation efforts since the current tiered water rate structure was put in place in 2009. She argued that the proposed water rate structure seems unfair in that residents are being asked to once again reduce their usage or be bumped up into Tier 2 and pay higher rates. Ms. Sliffe suggested that more thought should be put into the proposed rate increase before moving forward.

Wendy Farner, a member of the public, expressed her frustration with the proposed changes to the District's tiered water rate structure. She stated that she has already been conserving and has reduced her water usage to a minimum through various means, including reducing the number of loads of laundry, washing her dishes in a dish pan as well as washing her car in the rain. Ms. Farner stated that she is firmly opposed to the cut in Tier 1 allotments.

Director Vásquez stated that he is conflicted; while he understands the concerns of customers on fixed incomes and on tight budgets, as a Board member, he is tasked with ensuring that the infrastructure of the District is maintained and that customers are provided with a reliable source of water.

Director Sanchez applauded all of the speakers for their commitment to conservation and reducing their water use. He stated that sadly the issues faced by the District could not be solved through conservation alone. Director Sanchez commented that San Diego Gas & Electric is proposing a 25% increase (as opposed to the District's 6.5% average increase) that directly effects the District's operating costs and this is just one of the costs that is driving the need for the District's proposed rate increase.

Director MacKenzie commented that the decrease in the Tier 1 allotment is not ideal, and it is going to be challenging for those who are already conserving. However, she stated that District staff has done a tremendous job in preparing a detailed water rate study which has determined the actual cost of operating and maintaining the District's water system. Director MacKenzie said that if the District does not raise rates, it will not be able to pay for these costs.

The Board thanked the members of public for taking time out of their day to address the Board and offered assurance that their input would be taken into consideration as a decision is made. President Miller stated that this is not an easy decision to make, and the Board members understand that raising rates effects everybody (including themselves).

At 10:02 a.m., President Miller closed the public hearing.

The Board members provided additional statements and clarifications on what had been presented by staff and the public.

Upon motion by Director Sanchez, seconded by Director Vásquez, the Board of Directors adopted Resolution 22-07 revising the Rules and Regulations of Vista Irrigation District to incorporate one-time increases to water rates and service charge, approving the pass through of San Diego County Water Authority costs and annual inflationary adjustments (Rate Adjustment Policy) for the next five years and modifications to the tiered water rate structure allotments, by the following roll call vote:

AYES:

Directors Miller, Vásquez, MacKenzie, and Sanchez

NOES:

None

ABSTAIN:

None

ABSENT:

Director Dorey

A copy of Resolution 22-07 is on file in the official Resolution Book of the District.

#### 8. RESOLUTION HONORING PAST PRESIDENT PATRICK H. SANCHEZ

See staff report attached hereto.

General Manager Brett Hodgkiss summarized the District's many achievements over the past year and commended Director Sanchez for leading the Board and staff during a time when the District continued to handle the many unique challenges related to the COVID-19 pandemic. The Board members joined Mr. Hodgkiss in commending and thanking Director Sanchez for his leadership as Board President in 2021. Director Sanchez thanked his fellow Board members and staff for their mentoring, hard work and support during his tenure as Board President.

Upon motion by Director Vásquez, seconded by Director MacKenzie, the Board of Directors adopted Resolution 22-08 honoring the District's 2021 past president, Patrick H. Sanchez, by the following roll call vote:

AYES: Directors Miller, Vásquez, MacKenzie, and Sanchez

NOES: None ABSTAIN: None

ABSENT: Director Dorey

A copy of Resolution 22-08 is on file in the official Resolution Book of the District.

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

See staff report attached hereto.

President Miller reported that there had not been a meeting of the Water Authority since his last report with the next meeting scheduled for January 27, 2022. He reported that negotiations concerning the rate case lawsuit between Metropolitan Water District (MWD) and the Water Authority has been moving forward towards a settlement.

Mr. Hodgkiss reported on the Member Agency Managers virtual meeting he attended on January 18, 2022 in which Assembly Bill (AB) 1434 was discussed. AB 1434, "Urban Water Use Objectives: Indoor Residential Water Use", is aimed at reducing the threshold of indoor water use from 52.5 gallons per capita per day to 47 gallons by 2025 with a further goal of reducing the threshold from 50 gallons to 42 gallons by 2030. He said that the Association of California Water Agencies (ACWA) Legislative Committee has taken the position of "oppose unless amended" on this bill. Mr. Hodgkiss stated that supply chain problems were also discussed, and the Water Authority is considering putting a procurement group together to address shortfalls in vital chemicals, such as sodium hypochlorite.

President Miller reviewed the findings in a recent report by Dr. Michael Hanemann, a consultant hired by the San Diego Local Agency Formation Commission (LAFCO), to assess the proposed detachments of Rainbow Municipal Water District (Rainbow) and Fallbrook Public Utilities District (Fallbrook) from the Water Authority. Dr. Hanemann's report indicates that there will be a financial impact as a result of these agencies detaching from the Water Authority and that the financial impact should be determined by LAFCO. President Miller stated that Dr. Hanemann's report is just one of several that will be forthcoming, adding that each party (to the detachment) has hired its own consultants to determine the financial impacts of the detachments.

At this time, a brief break was taken from 10:45 a.m. to 10:55 a.m.

#### 10. MEETINGS AND EVENTS

See staff report attached hereto.

Directors Vásquez, MacKenzie, Sanchez and Miller all reported on their attendance at the Colorado River Water Users Association (CRWUA) in December 2021. Director Vásquez commented briefly on the varying reports of the availability of water from Lake Mead; based on what he heard, Director Vásquez said that he was unsure of the amount of water available for delivery from the lake in 2022. Director MacKenzie commented on an Upper Colorado River Commission session she attended that covered drought management in the upper basin states; a prediction was made that the runoff from the upper basin this year will be two million acre-feet less than was forecasted in September 2021. Director Sanchez commented on

a session on renewing a combined water storage program for Lake Powell and Lake Mead by the Colorado River Board of California, and a session on climate change that discussed forecasting snowpack versus run off versus actual flow. Director Miller commented on a discussion regarding the Lake Mead Water Storage Program, a two-year plan with a shared goal by California, Arizona and Nevada to conserve 500,000+ acrefeet of water per year in an effort to stabilize the water level of Lake Mead. He added that a funding pool of \$200 million was set up to incentivize communities to scale back their water usage so less water needs to be withdrawn from Lake Mead.

Director Vásquez reported on his attendance at a meeting of the ACWA Region 10 Board where Chuck Gibson of Santa Margarita Water District was voted in as the new Chair. Director Vásquez also attended Council of Water Utilities virtual meeting and heard a discussion regarding Governor Newsom's budget.

Director MacKenzie attended the California Special Districts Association (CSDA) Legislative meeting in which the discussion centered on protest threshold contained in the Cortese-Knox-Hertzberg Act (Act). She said that a joint working group comprised of members of CSDA and the California Association of Local Agency Formation Commissions (CALAFCO) were able to come to an agreement on a rewrite of the protest threshold provisions with the Act. CSDA staff recommended that the Legislative Committee approve CALAFCO's protest threshold proposals. She reported that the CALAFCO Board interviewed two candidates for the position of Executive Director to replace Pamela Miller who is retiring after nine years.

Director Vásquez requested to attend the virtual Urban Water Spring Conference in Palm Springs February 16-18, 2022 as well as all of the remaining 2022 Council of Water Utilities meeting. Directors Vásquez and MacKenzie requested to attend the CSDA Quarterly Meeting on February 17, 2022 in San Diego.

Upon motion by Director Sanchez, seconded by Director MacKenzie and unanimously carried (4 ayes: Vásquez, Sanchez, MacKenzie and Miller; 1 absent: Director Dorey), the Board of Directors authorized Director Vásquez to attend the virtual Urban Water Spring Conference on February 16-17, 2022 and all the 2022 COWU meetings and authorized Directors Vasquez and MacKenzie to attend the CSDA Quarterly Meeting on February 17, 2022 in San Diego.

Due to time constraints for General Counsel, Agenda Item 15 "Closed Session: Conference with Legal Counsel – Existing Litigation" was taken out of order.

# 15. CLOSED SESSION: CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

President Miller adjourned the meeting to closed session at 11:31 a.m. for a conference with legal counsel to discuss the following existing litigation per Government Code Sections 54956.9(a) and (d)(1):

Name of Case: Kessner et al. v. City of Santa Clara, et al.; Santa Clara Superior Court Case No. 20CV364054

The meeting reconvened in open session at 11:35 a.m. President Miller declared that no reportable action had been taken.

General Counsel Jennifer Farrell left the meeting at 11:36 a.m.

#### 11. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

See staff report attached hereto.

There were no changes to the list presented on the staff report.

#### 12. COMMENTS BY DIRECTORS

Director Vásquez commented that he received a letter from Mesa Water District congratulating him on his election to the ACWA Region 10 Board. He thanked Board Secretary Lisa Soto and Assistant Board Secretary Ramae Ogilvie for the new Board binder, saying the layout is very helpful. Director Vásquez reported on a newspaper article in which the State Water Resources Control Board and the California Department of Water Resources reported snow pack at Donner Pass at 200% of normal levels. He stated that the California Fish and Game Commission will consider a petition by California Department of Fish and Wildlife to list the Southern California Steelhead as an endangered species as reported in the ACWA Monthly Regulatory Round Up newsletter.

Director Sanchez reported that the Board received a note from Cathy Green of Orange County Water District, thanking the Board for its support of her candidacy and election as ACWA Vice President. He stated that he received a note from Jay Tanner from ACWA regarding the Department of Interior's bipartisan infrastructure law, in which \$8.4 billion is being allocated over five years for water reclamation and reuse, and \$200 million for water desalination plant projects.

Director MacKenzie inquired about the upcoming redistricting process and when it will be brought to the Board. Ms. Kelleher responded that an ad hoc committee has been formed and that an ad hoc committee meeting will be held in early February to review redistricting data and division boundary maps. Mr. Hodgkiss added that the District is required to hold two public hearings on redistricting division boundaries. At the first public hearing, the ad hoc committee will present proposed revisions to division boundaries based on redistricting data and receive comments from the public and Board. Once the division boundary map is finalized, a second public hearing will be scheduled to consider its adoption. Revisions to the division boundary map must be submitted to the Registrar of Voters by April 17, 2022. Director MacKenzie asked that the maps presented to the Board show the old versus new boundaries.

#### 13. COMMENTS BY GENERAL COUNSEL

None were presented.

#### 14. COMMENTS BY GENERAL MANAGER

Mr. Hodgkiss informed the Board that two of the District's Meter Reader trucks had the catalytic converters stolen while parked in the District yard. The thieves cut through the wrought iron fencing to enter the yard. Director of Operations and Field Services Frank Wolinski stated that the cost to replace the catalytic converters is approximately \$1,500 per vehicle.

Mr. Hodgkiss reported that the water level at Lake Henshaw was up to almost 6,200 acre-feet after the recent rains.

# 16. CLOSED SESSION TO CONDUCT PUBLIC EMPLOYEE PERFORMANCE EVALUATION – GENERAL MANAGER

President Miller adjourned the meeting to closed session at 12:01 p.m. to conduct a performance evaluation of the General Manager, pursuant to Government Code section 54957.

The meeting reconvened in open session at 1:08 p.m. President Miller declared that no reportable action had been taken.

#### 17. ADJOURNMENT

There being no further business to come before the Board, at 1:09 p.m., President Miller adjourned the meeting.

Marty Miller, President

ATTEST:

Ramae Ogilvie, Assistant Secretary

**Board of Directors** 

VISTA IRRIGATION DISTRICT



Agenda Item: 6.A

# **STAFF REPORT**

Board Meeting Date: January 19, 2022 Approved By: Brett Hodgkiss

SUBJECT: AGREEMENT WITH BURKE, WILLIAMS & SORENSEN, LLP FOR GENERAL

**COUNSEL LEGAL SERVICES** 

<u>RECOMMENDATION:</u> Authorize the General Manager to execute an Agreement for Legal Services with Burke, Williams & Sorensen, LLP to provide legal services as General Counsel for the District.

<u>PRIOR BOARD ACTION</u>: On January 5, 2022, the Board selected Burke, Williams & Sorensen, LLP to provide legal services as General Counsel for the District.

<u>FISCAL IMPACT</u>: \$240 per hour plus reimbursable expenses; a more detailed list of rates and reimbursable expenses can be found in Exhibit B, Fee Schedule, of the Agreement for Legal Services (Agreement).

<u>SUMMARY</u>: At its September 8, 2021 meeting, the Board authorized staff to send a Request for Proposal for General Counsel Services to selected attorneys/firms. The District received six proposals by the October 22, 2021 deadline and selected four attorneys/firms to interview. After interviewing each of the attorneys/firms, the Board selected Burke, Williams & Sorensen, LLP to provide legal services General Counsel for the District.

<u>DETAILED REPORT</u>: The initial term of the Agreement with Burke, Williams & Sorensen, LLP is from January 31, 2022 through June 30, 2024; the District has the option to renew the Agreement for two additional one-year term periods. The District reserves the right to terminate this Agreement at any time, with or without cause, upon 10 days written notice to Burke, Williams and Sorensen, LLP. The Scope of Work (Exhibit A) outlines the duties and responsibilities of General Counsel and identifies the Principal Attorney and Alternate Attorneys; the Fee Schedule (Exhibit B) is based on information contained in Burke, Williams & Sorensen, LLP's proposal as well as discussions with Elizabeth Mitchell.

<u>ATTACHMENT</u>: Agreement for Legal Services



# AGREEMENT FOR LEGAL SERVICES BETWEEN VISTA IRRIGATION DISTRICT AND BURKE, WILLIAMS & SORENSEN

This Agreement is made and entered into as of \_\_\_\_\_\_\_\_\_, 2022 by and between VISTA IRRIGATION DISTRICT, a special governmental district formed and operating under the Irrigation District Law, California Water Code Sections 20500, et seq. (hereinafter referred to as "DISTRICT"), and Burke, Williams & Sorensen, LLP, a limited liability partnership (hereinafter referred to as "ATTORNEY").

#### **RECITALS**

- A. DISTRICT is in need of the following services: legal services as General Counsel (hereinafter referred to as the "Services").
  - B. ATTORNEY is duly licensed (where appropriate) and qualified to provide the Services.
- C. The purpose of this agreement is to establish the terms and conditions under which DISTRICT will retain ATTORNEY to provide the Services described herein.

#### **EXECUTORY AGREEMENTS**

NOW, THEREFORE, in consideration of the facts recited above and the covenants, conditions and terms set forth below, DISTRICT and ATTORNEY hereby agree as follows:

#### **SECTION ONE:** ATTORNEY SERVICES

- 1.1 <u>Scope of Services</u>. In compliance with all terms and conditions of this Agreement, ATTORNEY shall provide the Services as described in the scope of work attached hereto as Exhibit "A" ("Scope of Services"). If this Agreement is for the provision of goods, supplies, equipment or personal property, the terms "Services" shall include the provision (and, if designated in the Scope of Services, the installation) of such goods, supplies, equipment or personal property.
- 1.2 <u>Changes and Additions to Scope of Services</u>. DISTRICT shall have the right at any time during the performance of the Services, without invalidating this Agreement, to order extra work beyond that specified in the Scope of Services or make changes by altering, adding to, or deducting from the Services.
  - 1.2.1 No such new or changed work shall be undertaken unless a written order is first given by DISTRICT to ATTORNEY, incorporating therein any adjustment in (i) the Budget and Fee Schedule attached hereto as Exhibit "B," and/or (ii) the time to perform this Agreement, which adjustments are subject to the written approval of ATTORNEY.
  - 1.2.2 It is expressly understood by ATTORNEY that the provisions of this Section 1.2 shall not apply to Services specifically set forth in the Scope of Services or reasonably contemplated therein. ATTORNEY hereby acknowledges that it accepts the risk that the Services to be provided pursuant to the Scope of Services may be more costly or time consuming than ATTORNEY anticipates and that ATTORNEY shall not be entitled to additional compensation therefore.

- 1.3 <u>Standard of Performance</u>. ATTORNEY agrees that all Services shall be performed in a competent, professional, and satisfactory manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions and in accordance with generally accepted professional practices and principles prevalent in the industry; and all goods, materials, equipment or personal property included within the Services shall be of good quality, fit for the purpose intended.
- 1.4 Performance to Satisfaction of DISTRICT. ATTORNEY shall perform all work and tasks comprising the Services to the satisfaction of DISTRICT within the time specified. If DISTRICT reasonably determines that any portion of the Services is not satisfactory, DISTRICT shall have the right to take appropriate action, including but not limited to: (a) meeting with ATTORNEY to review the quality of the work and resolve matters of concern; (b) requiring ATTORNEY to repeat unsatisfactory work at no additional charge until they are satisfactory; (c) suspending the delivery of work to ATTORNEY for an indefinite time; (d) withholding payment; and (e) terminating this Agreement as hereinafter set forth.
- 1.5 <u>Instructions from DISTRICT</u>. In the performance of this Agreement, ATTORNEY shall report to and receive instructions from DISTRICT's Project Manager designated in Paragraph 1.6 below, or his or her designee. Services other than those specifically described in the Scope of Services shall not be performed without the prior written approval of DISTRICT.

### 1.6 <u>Project Management</u>.

- 1.6.1 ATTORNEY designates Elizabeth Mitchell to serve as Principal Attorney and to provide supervision and have overall responsibility for this Agreement on behalf of ATTORNEY. Principal Attorney shall not be removed or reassigned without the prior written approval of DISTRICT.
- 1.6.2 DISTRICT designates Brett Hodgkiss to serve as DISTRICT's Project Manager to provide overall responsibility for this Agreement on behalf of DISTRICT.
- 1.7 <u>Familiarity with Work.</u> By executing this Agreement, ATTORNEY warrants that ATTORNEY (a) has thoroughly investigated and considered the Scope of Services to be performed, (b) has carefully considered how the Services should be performed, and (c) fully understands the facilities, difficulties, and restrictions attending performance of the Services under the Agreement. If the Services involve work upon any site, ATTORNEY warrants that ATTORNEY has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of Services hereunder. Should ATTORNEY discover any conditions, including any latent or unknown conditions, which will materially affect the performance of the Services hereunder, ATTORNEY shall immediately inform DISTRICT of such fact and shall not proceed except at ATTORNEY's risk until written instructions are received from DISTRICT's Project Manager.
- 1.8 <u>Prohibition Against Subcontracting or Assignment</u>. ATTORNEY shall not contract with any other entity to perform in whole or in part any of the Services required hereunder without the prior express written approval of DISTRICT. In addition, neither the Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated, or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior express written approval of DISTRICT.
  - 1.8.1 In the event of any unapproved transfer, including any bankruptcy proceeding, DISTRICT may, in its sole and absolute discretion, void the Agreement.

- 1.8.2 If ATTORNEY subcontracts any of the Services to be performed under this Agreement as permitted under this Agreement, ATTORNEY shall be as fully responsible to DISTRICT for the acts and omissions of ATTORNEY's subcontractor and of the persons employed by the subcontractor, as ATTORNEY is for the acts and omissions of persons directly employed by ATTORNEY. Nothing contained in this Agreement shall create any contractual relationship between any subcontractor of ATTORNEY and DISTRICT. ATTORNEY shall bind every subcontractor and every subcontractor to the terms of this Agreement applicable to ATTORNEY's work unless specifically set forth to the contrary in the subcontract in question and approved in writing by DISTRICT. It shall be ATTORNEY's responsibility to confirm that each subcontractor meets the minimum insurance requirements specified below.
- 1.8.3 No approved subcontract or transfer shall release any surety of ATTORNEY of any liability hereunder without the prior express written consent of DISTRICT.
- 1.8.4 Nothing contained herein shall prevent ATTORNEY from employing professional associates as ATTORNEY may deem appropriate to assist in the performance of Services under this Agreement.
- 1.9 Records and Reports. Upon request by DISTRICT, ATTORNEY shall prepare and submit to DISTRICT any reports concerning ATTORNEY's performance of the Services rendered under this Agreement. DISTRICT shall have access, upon reasonable notice, to the books and records of ATTORNEY related to ATTORNEY's performance of this Agreement. All drawings, documents, and other materials prepared by ATTORNEY in the performance of this Agreement (a) shall be the property of DISTRICT and shall be delivered at no cost to DISTRICT upon request of DISTRICT or upon the termination of this Agreement, and (b) are confidential and shall not be made available to any individual or entity without the prior written approval of DISTRICT. ATTORNEY shall keep and maintain all records and reports related to this Agreement for a period of three years following termination of this Agreement, and DISTRICT shall have access to such records at any time during normal business hours upon 48 hours' notice.

#### **SECTION TWO:** <u>TERM AND TIME OF PERFORMANCE</u>

- 2.1 <u>Term of Agreement</u>. Unless terminated earlier as set forth in this Agreement, the Services shall commence on January 31, 2022 ("Commencement Date") and the term of this Agreement shall continue through its expiration on June 30, 2024.
  - 2.1.1 The time provided to ATTORNEY to complete the Services required by this Agreement shall not affect DISTRICT's right to terminate this Agreement, as provided for in Section 6.
  - 2.1.2 DISTRICT shall have the option to renew this Agreement for a maximum of two additional one-year term periods under the terms and conditions in effect at the end of the initial term or any extended term (each, an "Option Period"). To exercise the option, DISTRICT shall give notice to ATTORNEY not more than 90 days nor fewer than 60 days prior to the end of the initial term or first Option Period. The price(s) for the Services during the Option Period may be adjusted, subject to District Board of Director approval, as described in Exhibit "B", unless otherwise negotiated by the parties to this Agreement.
- 2.2 <u>Time for Performance; Force Majeure</u>. ATTORNEY shall perform the Services in a prompt and timely manner in accordance with the activity schedule shown in Exhibit "C." The time period specified in the activity schedule or this Agreement for performance of Services shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of

DISTRICT or ATTORNEY, including but not restricted to acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation and/or acts of any governmental agency, including DISTRICT, if the delaying party shall within 10 days of the commencement of such delay notify the other party in writing of the causes of the delay.

- 2.2.1 If ATTORNEY is the delaying party, DISTRICT shall ascertain the facts and the extent of delay, and extend the time for performing the Services for the period of the enforced delay when and if in the judgment of DISTRICT such delay is justified. DISTRICT's determination shall be final and conclusive upon the parties to this Agreement.
- 2.2.2 In no event shall ATTORNEY be entitled to recover damages against DISTRICT for any delay in the performance of this Agreement, however caused. ATTORNEY's sole remedy shall be extension of this Agreement pursuant to this Paragraph 2.2.

#### SECTION THREE: <u>COMPENSATION AND PAYMENT</u>

- 3.1 <u>Compensation.</u> ATTORNEY shall be compensated in accordance with the terms of the Fee Schedule attached hereto as Exhibit "B." Included in the Fee Schedule are all ordinary and overhead expenses incurred by ATTORNEY and its agents and employees, including meetings with DISTRICT representatives, and incidental costs incurred in performing the Services under this Agreement. Unless otherwise specified in the Fee Schedule, DISTRICT shall compensate ATTORNEY on a time-and-materials basis at the rates listed in Exhibit "B."
- 3.2 <u>Payment</u>. ATTORNEY shall submit itemized monthly statements for Services rendered under this Agreement. Each monthly statement shall reference this Agreement, the Work Order number (if applicable), the date and description of Services performed, and the amount invoiced. DISTRICT shall pay the statements within 30 days of receipt. Payments shall be subject to review for compliance by DISTRICT with the requirements of this agreement, and shall be subject to a final audit upon completion of all Services. No other compensation will be paid except for work in accordance with Paragraph 1.2 above.
  - 3.2.1 <u>Total Payment</u>. DISTRICT shall not, absent prior written approval, pay any additional sum for any expense or cost incurred by ATTORNEY in rendering the Services pursuant to this Agreement. DISTRICT shall make no payment for any extra, further, or additional service pursuant to this Agreement. In no event shall ATTORNEY submit any invoice for an amount in excess of the maximum amount of compensation provided above either for a task or for the entirety of the Services performed pursuant to this Agreement, unless this Agreement is modified in writing prior to the submission of such an invoice.
  - 3.2.2 <u>Hourly Rates</u>. Rates for the Services performed by ATTORNEY on an hourly basis shall not exceed the amounts shown on the fee schedule included with Exhibit "B".
  - 3.2.3 <u>Reimbursable Expenses</u>. Unless otherwise set forth in Exhibit "B", reimbursable expenses of ATTORNEY are included within, and count against, any maximum amount specified in Exhibit B of this Agreement.
  - 3.2.4 <u>Payment of Taxes</u>. ATTORNEY is solely responsible for the payment of employment taxes incurred under this Agreement, and for the payment of any applicable federal, state or local taxes arising as a result of the performance of this Agreement.

- 3.2.5 <u>Payment upon Termination</u>. In the event that DISTRICT OR ATTORNEY terminates this Agreement pursuant to Section 6, DISTRICT shall compensate ATTORNEY for all outstanding costs and reimbursable expenses incurred for Services satisfactorily completed and for reimbursable expenses as of the date of written notice of termination. ATTORNEY shall maintain adequate logs and timesheets in order to verify costs and reimbursable expenses incurred to that date.
- 3.3 Retention of Funds. ATTORNEY hereby authorizes DISTRICT to deduct from any amount payable to ATTORNEY (whether arising out of this Agreement or otherwise) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate DISTRICT for any losses, costs, liabilities, or damages suffered by DISTRICT in connection with this Agreement or the activities of ATTORNEY hereunder, and all amounts for which DISTRICT may be liable to third parties by reason of ATTORNEY's negligent acts, errors, or omissions, or willful misconduct, in performing or failing to perform ATTORNEY's obligations under this Agreement. DISTRICT in its sole and absolute discretion may withhold from any payment due ATTORNEY, without liability for interest, an amount sufficient to cover such claim or any resulting lien. The failure of DISTRICT to exercise such right to deduct or withhold shall not act as a waiver of ATTORNEY's obligation to pay DISTRICT any sums ATTORNEY owes DISTRICT.

#### **SECTION FOUR:** INSURANCE AND INDEMNITY

4.1 <u>Insurance</u>. ATTORNEY shall carry all insurance required by Federal, State, County and local laws. ATTORNEY shall procure and maintain, during the life of the AGREEMENT, adequate worker's compensation, public liability, professional liability (where applicable) and property damage insurance. The specific requirements for insurance as set forth in this article shall be considered minimum requirements. ATTORNEY shall procure and maintain, during the life of this AGREEMENT, such commercial general liability and automobile liability insurance necessary to protect ATTORNEY and DISTRICT from all claims for bodily injury, including accidental death and property damage claims arising from operations under this AGREEMENT. DISTRICT shall be named as additional primary insured on ATTORNEY's policy without offset against ATTORNEY's existing insurance and the certificate of insurance shall include reference to such provisions.

#### 4.1.1 Minimum Scope of Insurance. Coverage shall be at least as broad as:

- (a) Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001).
- [(b) Insurance Services Office form number CA 0001 (Ed. 1/87) covering Automobile Liability, code 1 (any auto).]
- (c) Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

#### 4.1.2 <u>Minimum Limits of Insurance</u>. ATTORNEY shall maintain limits no less than:

(a) General Liability: \$2,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general and products-completed operations aggregate limit is used, either the general and products-completed operations aggregate limit shall apply separately to this project/location or the general and products-completed operations aggregate limit shall be twice the required occurrence limit.

- (b) Automobile Liability: \$1,000,000 per accident for bodily injury, death, and property damage.
- (c) Professional Liability: \$1,000,000 per claim for negligent acts, errors or omissions of a professional nature.
- (d) Workers' Compensation: California Statutory Workers' Compensation Insurance and Employer's Liability Insurance shall be provided as required by law, with limits of not less than \$1,000,000.00 per accident or bodily injury, and \$1,000,000.00 per disease per employee. In the alternative, ATTORNEY may rely on a self-insurance program to meet those requirements, but only if the program of self-insurance complies fully with the provisions of the California Labor Code. Determination of whether a self-insurance program meets the standards of the California Labor Code shall be solely in the discretion of DISTRICT.
- 4.1.3 <u>Deductibles and Self-Insured Retentions</u>. Any deductibles or self-insured retentions must be declared to and approved by DISTRICT. At the option of DISTRICT, either:
  - (a) The insurer shall reduce or eliminate such deductibles or self-insured retentions as respects DISTRICT, its officers, officials, employees and authorized volunteers; or
  - (b) ATTORNEY shall provide a financial guarantee satisfactory to DISTRICT guaranteeing payment of losses and related investigations, claim administration and defense expenses.
- 4.1.4 <u>Other Insurance Provisions</u>. The general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:
  - (a) DISTRICT, its directors, officers, employees, and authorized volunteers are to be covered as additional insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of ATTORNEY; and with respect to liability arising out of work or operations performed by or on behalf of ATTORNEY including materials, parts or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to ATTORNEY's insurance using ISO endorsement CG2010, CG2033, or equivalent, or as a separate owner's policy.
  - (b) For any claims related to this Project, ATTORNEY's insurance coverage shall be primary insurance as respects DISTRICT, its directors, officers, employees, and authorized volunteers. Any insurance or self-insurance maintained by DISTRICT, its directors, officers, employees, or authorized volunteers shall be excess of ATTORNEY's insurance and shall not contribute within.
  - (c) Each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled by either party, except after thirty (30) days' prior written notice by mail, has been given to DISTRICT, except for non-payment of premium for which ten (10) days prior notice will be given. For purposes of this notice requirement, any adverse material change in the policy prior to its expiration shall be considered a cancellation. ATTORNEY shall, upon demand of DISTRICT, deliver to DISTRICT all such policy or policies of insurance and the receipts for payment of premiums thereon.

- 4.1.5 <u>Acceptability of Insurers</u>. To be acceptable, insurers must have an A.M. Best rating of no less than A minus: VII, or equivalent, unless otherwise approved by DISTRICT General Manager.
- 4.1.6 <u>Verification of Coverage</u>. ATTORNEY shall furnish DISTRICT with original certificates and amendatory endorsements effecting coverage required by this clause. The endorsements should be on the standard ACORD insurance form or on another form approved by DISTRICT, provided those endorsements or policies conform to the requirements. All certificates and endorsements are to be received and approved by DISTRICT before work commences. DISTRICT reserves the right to require complete, certified copies of all required insurance policies, including endorsements effecting the coverage required by these specifications at any time.
- 4.2 <u>Indemnity</u>. The parties mutually acknowledge that DISTRICT has retained ATTORNEY to perform the Services set forth in this Agreement based upon the special skills, expertise and experience of ATTORNEY. Accordingly, in performing the Services under this Agreement, ATTORNEY shall use the skill and care that a highly specialized professional, with expertise in the field, would use under similar circumstances. Further, the parties mutually agree that, to the extent that ATTORNEY retains sub-attorneys or subcontractors to perform any portion of any of the tasks or Services under this Agreement, ATTORNEY has a duty to DISTRICT to ensure that the tasks and Services performed by such sub-attorneys or subcontractors meet the same professional level, skill and expertise expected of ATTORNEY.
  - 4.2.1 ATTORNEY shall indemnify, defend (with legal counsel acceptable to DISTRICT) and hold harmless DISTRICT and DISTRICT personnel from and against any and all actions, suits, claims, demands, judgments, attorney's fees, costs, damages to persons or property, losses, penalties, obligations, expenses or liabilities ("Claims") that may be asserted or claimed by any person or entity arising out of ATTORNEY's performance of any tasks or Services for or on behalf of DISTRICT, whether or not there is concurrent negligence on the part of DISTRICT and/or any DISTRICT personnel, but excluding any Claims arising from the active negligence or willful misconduct of DISTRICT or any DISTRICT personnel where the active negligence or willful misconduct is determined to be the actual and proximate cause of the alleged injury.

#### SECTION FIVE: LEGAL RELATIONS AND RESPONSIBILITIES

- 5.1 ATTORNEY shall keep itself fully informed of all existing and future State and Federal laws and all county, municipal and DISTRICT ordinances and regulations which in any manner affect those employed by it or in any way affect the performance of the Services pursuant to this Agreement. ATTORNEY shall at all times observe and comply with all such laws, ordinances, and regulations and shall be responsible for the compliance of all work performed by or on behalf of ATTORNEY. ATTORNEY shall cause all completed deliverables required under this Agreement to conform to all applicable Federal, State and local legal requirements. When applicable, ATTORNEY shall not pay less than the prevailing wage, which rate is determined by the Director of Industrial Relations of the State of California.
  - 5.1.1 Requirement to Employ Persons Legally Authorized to Work. ATTORNEY shall not hire or employ any person to perform work within DISTRICT or allow any person to perform the Services required under this Agreement unless such person is properly documented and legally entitled to be employed within the United States. ATTORNEY acknowledges and agrees that it shall be independently responsible for reviewing the applicable laws and regulations and effectuating compliance with such laws. ATTORNEY shall require the same of all of its subattorneys and subcontractors.

- 5.2 <u>Licenses, Permits, Fees and Assessments</u>. ATTORNEY shall obtain at its sole cost and expense all licenses, permits, and approvals that may be required by law for the performance of the Services required by this Agreement. ATTORNEY shall have the sole obligation to pay any fees, assessments, and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for ATTORNEY's performance of any work required by this Agreement, and shall indemnify, defend, and hold harmless DISTRICT against any such fees, assessments, taxes, penalties, or interest levied, assessed, or imposed against DISTRICT thereunder.
- 5.3 ATTORNEY as Independent Contractor. ATTORNEY shall perform the Services and all work required herein as an independent ATTORNEY of DISTRICT and shall remain at all times as to DISTRICT a wholly independent contractor. DISTRICT shall not in any way or for any purpose become or be deemed to be a partner of ATTORNEY in its business or otherwise, or a joint venture, or a member of any joint enterprise with ATTORNEY. ATTORNEY shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of DISTRICT. ATTORNEY shall be under the control of DISTRICT as to the result to be accomplished but not the means; provided, however, that ATTORNEY shall consult with DISTRICT as provided in the Scope of Work. Neither ATTORNEY nor any of ATTORNEY's employees shall, at any time, or in any way, be entitled to any sick leave, vacation, retirement, or other fringe benefits from DISTRICT; and neither ATTORNEY nor any of its employees shall be paid by DISTRICT time and one-half for working in excess of forty (40) hours in any one week. DISTRICT is under no obligation to withhold State and Federal tax deductions from ATTORNEY's compensation. Neither ATTORNEY nor any of ATTORNEY's employees shall be included in the competitive service, have any property right to any position, or any of the rights an employee may have in the event of termination of this Agreement.
- 5.4 Ownership of Data, Reports and Documents. Any work performed by or work product prepared or generated by ATTORNEY under this Agreement shall be the property of DISTRICT. ATTORNEY shall deliver to DISTRICT's Project Manager, at the end of the Project, notes and surveys made, all reports of tests made, studies, reports, plans, a copy of electronic and digital files, and other materials and documents which shall be the property of DISTRICT. ATTORNEY is not responsible to third parties for DISTRICT's use of data, reports and documents on other projects. DISTRICT may use or reuse the materials prepared by ATTORNEY in any manner desired without additional compensation to ATTORNEY.

#### 5.5 <u>Intellectual Property and Proprietary Information.</u>

5.5.1 Proprietary Information. All proprietary information developed specifically for DISTRICT by ATTORNEY in connection with, or resulting from, this Agreement, including but not limited to inventions, discoveries, improvements, copyrights, patents, maps, reports, textual material, or software programs, but not including ATTORNEY's underlying materials, software, or know-how, shall be the sole and exclusive property of DISTRICT, and are confidential and shall not be made available to any person or entity without the prior written approval of DISTRICT. ATTORNEY agrees that the compensation to be paid pursuant to this Agreement includes adequate and sufficient compensation for any proprietary information developed in connection with or resulting from the performance of ATTORNEY's Services under this Agreement. ATTORNEY further understands and agrees that full disclosure of all proprietary information developed in connection with, or resulting from, the performance of Services by ATTORNEY under this Agreement shall be made to DISTRICT, and that ATTORNEY shall do all things necessary and proper to perfect and maintain ownership of such proprietary information by DISTRICT.

- 5.5.2 <u>Reproduction Rights</u>. Any and all patents and copyrights that arise from the Services or the creation of work in carrying out this Agreement shall be vested in DISTRICT, and ATTORNEY hereby agrees to relinquish all claims to such copyrights in favor of DISTRICT.
- 5.5.3 <u>Use of Patented Materials</u>. ATTORNEY shall assume all costs arising from the use of patented or copyrighted materials, including but not limited to equipment, devices, processes, and software programs, used or incorporated in the Services performed by ATTORNEY under this Agreement. ATTORNEY shall indemnify, defend, and save DISTRICT harmless from any and all suits, actions or proceedings of every nature for or on account of the use of any patented or copyrighted materials.
- 5.6 Covenant Against Discrimination. ATTORNEYS and contractors doing business with DISTRICT are expected to be equal opportunity employers who achieve or attempt to achieve parity in the representation of women and minorities in their work force. In this regard:
  - 5.6.1 ATTORNEY covenants on behalf of itself and its employees, officers, agents, representatives and subcontractors that there shall be no discrimination against any person on account of race, color, creed, religion, sex, marital status, national origin, or ancestry, in the performance of this Agreement.
  - 5.6.2 ATTORNEY shall ensure equal employment opportunity for all persons, regardless of race, color, religion, sex, creed, national origin, ancestry, age, medical condition, sexual orientation, physical or mental disability, Vietnam-era veteran or special disabled veteran status, marital status or citizenship, within the limits imposed by law. These principles are to be applied by ATTORNEY in all employment practices including recruiting, hiring, transfers, promotions, training, compensation, benefits, layoffs, and terminations.
  - 5.6.3 ATTORNEY shall comply with Title VII of the Civil Rights Act of 1964, as amended, the California Fair Employment Practices Act, the Americans and Disabilities Act of 1990 (42 U.S.C. §12101 et seq.), as the same may be amended from time to time, and any other applicable Federal and State laws and regulations hereinafter enacted.
- 5.7 Compliance with California Unemployment Insurance Code Section 1088.8. If ATTORNEY is a sole proprietor, then prior to signing the Agreement, ATTORNEY shall provide to DISTRICT a completed and signed Form W-9, Request for Taxpayer Identification Number and Certification. ATTORNEY understands that pursuant to California Unemployment Insurance Code section 1088.8, DISTRICT will report the information from Form W-9 to the State of California Employment Development Department, and that the information may be used for the purposes of establishing, modifying, or enforcing child support obligations, including collections, or reported to the Franchise Tax Board for tax enforcement purposes.

#### 5.8 Conflicts of Interest Prohibited.

5.8.1 No officer, official, employee, agent, representative or volunteer of DISTRICT shall have any financial interest, direct or indirect, in this Agreement, or participate in any decision relating to this Agreement which affects his or her financial interest or the financial interest of any corporation, partnership, or association in which he or she is interested, in violation of any Federal, State or DISTRICT statute, ordinance, or regulation. ATTORNEY shall not employ any such person while this Agreement is in effect.

- 5.8.2 ATTORNEY shall file a Conflict of Interest Statement with the Secretary of the Board of Directors if that is required by DISTRICT's Conflict of Interest Code. ATTORNEY is responsible for compliance with any applicable financial disclosure requirements. ATTORNEY shall not make or participate in making or in any way attempt to use ATTORNEY's position to influence a governmental decision in which ATTORNEY knows or has reason to know ATTORNEY has a financial interest other than the compensation promised by this agreement. ATTORNEY represents that ATTORNEY has diligently conducted a search and inventory of ATTORNEY's economic interests, as defined in the regulations promulgated by the Fair Political Practices Commission, and has determined that ATTORNEY does not, to the best of ATTORNEY's knowledge, have an economic interest which would conflict with ATTORNEY's duties under this agreement. ATTORNEY will not have such interest during the term of this agreement. ATTORNEY will immediately advise DISTRICT's Project Manager if ATTORNEY learns of an economic interest of ATTORNEY's during the term of this Agreement.
- 5.9 Covenant Against Contingent Fee. ATTORNEY covenants that neither it nor any of its officers, employees, agents or representatives employed or retained any company or person, other than a bona fide employee working for ATTORNEY, to solicit or secure this Agreement. ATTORNEY further covenants that neither it nor any of its officers, employees, agents or representatives has paid or agreed to pay any company or person, other than a bona fide employee of ATTORNEY, any fee, commission, percentage, brokerage fee, gift, or any other consideration contingent upon, or resulting from, the award or making of this Agreement. For breach or violation of this provision, DISTRICT shall have the right to annul this agreement without liability, or, at its discretion, to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fees, gift, or contingent fee.
- 5.10 <u>Unauthorized Use of DISTRICT's Name</u>. Except as required by law or with the prior written consent of DISTRICT (which consent may be withheld in DISTRICT's sole and absolute discretion), ATTORNEY shall not use DISTRICT's name, seal or logo on marketing materials, nor shall ATTORNEY state, imply or in any way represent to any third party that DISTRICT has endorsed or approved ATTORNEY or any of its Services or products.
- 5.11 <u>No Third Party Beneficiaries</u>. Nothing express or implied in this Agreement is intended, or shall be construed, to confer upon or give any person or entity other than DISTRICT and ATTORNEY any rights or remedies under or by reason of this Agreement. There are no third party beneficiaries to this Agreement or the Services and work performed hereunder.
- 5.12 <u>Facilities and Equipment</u>. Except as otherwise provided, ATTORNEY shall, at its sole cost and expense, provide all facilities and equipment necessary to perform the services required by this Agreement. In no event shall DISTRICT be required to furnish any facility that may involve incurring any direct expense, including but not limited to computer, long-distance telephone or other communication charges, vehicles, and copying facilities.

#### **SECTION SIX:** TERMINATION AND DEFAULT

6.1 <u>Termination By DISTRICT</u>. DISTRICT reserves the right to terminate this Agreement at any time, with or without cause, upon 10 days written notice to ATTORNEY. Upon receipt of any notice of termination from DISTRICT, ATTORNEY shall immediately cease all work on the Services hereunder except such as may be specifically approved in writing by DISTRICT.

- 6.1.1 ATTORNEY shall be entitled to compensation for all work performed and Services rendered prior to receipt of DISTRICT's notice of termination and for any portion of the Services authorized in writing by DISTRICT thereafter. If termination occurs prior to completion of any portion of the Services for which a payment request has not been received, compensation for such performed but un-invoiced portion of the Services shall be based upon an amount mutually agreed to by DISTRICT and ATTORNEY. If, at the time of termination further compensation is due ATTORNEY, ATTORNEY shall not be entitled to such compensation until all reports, documentation and other work product to be delivered to DISTRICT are delivered to DISTRICT.
- 6.1.2 If termination is due to the failure of ATTORNEY to fulfill its obligations under this Agreement, DISTRICT may take over the work and prosecute the same to completion by contract or otherwise, and ATTORNEY shall be liable to the extent that the total cost for completion of the Services required hereunder, including costs incurred by DISTRICT in retaining a replacement ATTORNEY and similar expenses, exceeds the Budget.
- 6.2 Right to Stop Work; Termination by ATTORNEY. ATTORNEY shall have the right to stop work only if DISTRICT fails to timely make a payment required under the terms of the Budget. ATTORNEY may terminate this Agreement only in the event of a substantial failure by DISTRICT to perform in accordance with the terms of this Agreement through no fault of ATTORNEY, and upon 30 days' prior written notice to DISTRICT. ATTORNEY shall immediately cease all Services hereunder as of the date ATTORNEY's notice of termination is sent to DISTRICT, except such work or portion of the Services as may be specifically approved in writing by DISTRICT. ATTORNEY shall be entitled to compensation for all Services rendered prior to the date notice of termination are sent to DISTRICT and for any work authorized in writing by DISTRICT thereafter. If ATTORNEY terminates this Agreement because of an error, omission, or a fault of ATTORNEY, or ATTORNEY's willful misconduct, the terms of Paragraph 6.1.2 relating to DISTRICT's right to take over and finish the work and ATTORNEY's liability therefore shall apply.
- 6.3 <u>Waiver</u>. No delay or omission in the exercise of any right or remedy by a non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. A party's consent to or approval of any act by the other party requiring the party's consent or approval shall not be deemed to waive or render unnecessary the other party's consent to or approval of any subsequent act. Any waiver by either party of any default must be in writing.
- 6.4 <u>Rights and Remedies are Cumulative</u>. The rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.
- 6.5 Attorneys' Fees. In any action between the parties hereto seeking enforcement of any of the terms or provisions of this Agreement or in connection with the performance of the work hereunder, the party prevailing in the final judgment in such action or proceeding, in addition to any other relief which may be granted, shall be entitled to have and recover from the other party its reasonable costs and expenses, including but not limited to reasonable attorney's fees, expert witness fees and courts costs. If either party to this Agreement is required to initiate or defend litigation with a third party because of the violation of any term or provision of this Agreement by the other party, then the party so litigating shall be entitled to its reasonable attorney's fees and costs from the other party to this Agreement.

#### SECTION SEVEN: MISCELLANEOUS

7.1 <u>Notices</u>. Unless otherwise provided herein, all notices required to be delivered under this Agreement or under applicable law shall be personally delivered, or delivered by United States mail, prepaid, certified, return receipt requested, by reputable document delivery service that provides a receipt showing date and time of delivery, or by facsimile or e-mail provided that the facsimile or e-mail system produces a report showing the date and time of delivery. Notices personally delivered, delivered by a document delivery service, or delivered by facsimile or email, shall be effective upon receipt. Notices delivered by mail shall be effective at 5:00 p.m. on the second calendar day following dispatch. Notices shall be addressed as follows:

<u>To DISTRICT</u>: Vista Irrigation District

Attn: Brett Hodgkiss 1391 Engineer Street Vista, CA 92081-8840 Telephone: (760) 597-3162 FAX: (760) 598-8757

E-mail: bhodgkiss@vidwater.org

To ATTORNEY: Burke, Williams & Sorensen, LLP

Attn: Elizabeth Mitchell

501 West Broadway, Suite 1600

San Diego, CA 92101 Telephone: (619) 814-5819 FAX: (619) 814-6799

E-mail: emitchell@bwslaw.com

Changes in the address to be used for receipt of notices shall be effected in accordance with this Section 7.1.

- 7.2 Construction and Amendment. The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply. The headings of sections and paragraphs of this Agreement are for convenience or reference only, and shall not be construed to limit or extend the meaning of the terms, covenants and conditions of this Agreement. This Agreement may only be amended by the mutual consent of the parties by an instrument in writing.
- 7.3 <u>Laws and Venue</u>. This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this agreement, the action shall be brought in a state or federal court situated in the County of San Diego, State of California.
- 7.4 <u>Severability</u>. Each provision of this Agreement shall be severable from the whole. If any provision of this Agreement shall be found contrary to law, the remainder of this Agreement shall continue in full force.
- 7.5 Authority. The person(s) executing this Agreement on behalf of the parties hereto warrant that (a) such party is duly organized and existing, (b) they are duly authorized to execute and deliver this Agreement on behalf of said party, (c) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (d) the entering into this Agreement does not violate any provision of any other Agreement to which said party is bound.

- 7.6 <u>Successors</u>. Subject to Paragraph 1.8 above, all of the terms, conditions, and provisions hereof shall inure to and shall bind each of the parties hereto, and each of their respective successors and assigns.
- 7.7 <u>Integrated Agreement</u>. This Agreement represents the entire understanding of DISTRICT and ATTORNEY as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with regard to those matters covered by this Agreement. This Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements or understandings, if any, between the parties, and none shall be used to interpret this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date written above.

#### VISTA IRRIGATION DISTRICT

By:			
	Brett Hodgkiss, General Manager		
Date:			
ATTO	RNEY		
Tax I.D. Number:			
By:			
- , .	Signature		
Date:			
Name:	John Welsh		
Title:	Managing Partner		

E-mail: jwelsh@bwslaw.com

#### **EXHIBIT A**

#### **SCOPE OF WORK**

#### **Duties**

General Counsel will perform services for the District on an as-needed basis. Duties and responsibilities shall include the following:

- 1. Attendance at meetings (including closed sessions) of the District's Board of Directors, as requested by the President, Board of Directors, General Manager or other designee, for the purpose of providing legal services and consultation;
- 2. Attendance at such other meetings as requested by the President, Board of Directors, General Manager, or other designee;
- 3. Preparation of ordinances, resolutions, contracts, and the like concerning the District's business;
- 4. Preparation of written legal opinions on matters concerning District business at the request of the Board, General Manager or designee;
- 5. Analysis of proposed and enacted legislation published legal opinions and other matters that may have an impact on the operations of the District.
- 6. Review of contracts, bid specifications and purchasing documents for the purposes of legal and policy compliance, appropriate risk transfer, and risk analysis and avoidance.
- 7. Consultation with District staff and/or the District's labor counsel regarding personnel matters, labor relations matters, litigation, and other matters concerning District business, as requested (that may not otherwise be covered by District agreements with other legal resources);
- 8. Advising the District as to whether to file claims or commence litigation.
- 9. Representing the District in connection with certain claims and litigation filed by or against it. Other legal counsel shall be retained in the event of a conflict of interest, which disqualifies attorney from representation; other legal counsel may be retained to defend or prosecute actions, which in the opinion of attorney require special expertise or where representation is being provided under a contract of insurance.
- 9. Providing advice and assistance to District staff and directors on matters of law including the Brown Act, California Government and Water codes, conflict of interest and Political Reform Act and assisting them in seeking advice from regulatory agencies, such as the Fair Political Practices Commission.
- 10. Provide legal assistance and consultation to District staff and directors on matters of environmental compliance, including Endangered Species Act, California Environmental Quality Act, and National Environmental Policy Act as they pertain to actions by the Staff and Board.
- 11. Provide legal assistance and consultation to District staff and directors on matters of property rights and property management, including trespass, encroachment, lessee/licensee obligations, easements, and in-holder access.

12. Such other activities as directed by the President, Board of Directors, General Manager, or other designee.

A detailed description of the duties, methodologies, experience and qualifications required of this engagement is contained in the full proposal submitted by ATTORNEY attached hereto and incorporated herein by reference.

#### Restrictions

ATTORNEY shall not initiate compromise, settle or release any litigation, claim, or arbitration in which the DISTRICT is involved, except as directed by the DISTRICT. ATTORNEY shall not represent the DISTRICT before any other governmental or non-governmental entity, whether federal, state or local, unless so directed by the DISTRICT.

#### DISTRICT Assistance

DISTRICT shall provide ATTORNEY with copies of agenda materials, reports and such other documents and information as are reasonably necessary for ATTORNEY to perform the Services.

### **DISTRICT Acknowledgment**

The DISTRICT acknowledges that ATTORNEY is required to follow the California Rules of Professional Conduct, which apply to this attorney-client relationship and ATTORNEY's conduct, notwithstanding anything to the contrary that may be contained in this AGREEMENT.

#### Principal Attorney

Elizabeth Mitchell is to be the Principal Attorney assigned to handle the DISTRICT'S affairs as set forth in this Agreement. Other Attorneys in the firm may be assigned to the DISTRICT'S work tasks at the Principal Attorney's discretion, subject to approval by the DISTRICT.

#### Alternate Attorney(s)

In the event that Elizabeth Mitchell is unavailable, the DISTRICT should contact the following Attorney(s) (in the following order) to handle any work that needs immediate attention:

Mark Austin Johanna Canlas Gena Burns

#### **EXHIBIT B**

#### FEE SCHEDULE

DISRICT will pay ATTORNEY according the schedule of hourly rates set forth below.

#### Staffing

Partners/Associates (general blended rate) \$240/hr.
Partners/Associates (litigation blended rate) \$290/hr.
Paralegals (if needed for litigation) \$145/hr.

The above-referenced rates for legal services remain in effect from the AGREEMENT execution date through June 30, 2024. For the two optional one year renewal periods, and unless otherwise negotiated, rates may be adjusted annually equal to the greater of the salary increase granted to District management personnel or five percent. The District's Board of Directors must approve any adjustments to the rates.

#### **Other Charges**

DISTRICT will reimburse ATTORNEY for the actual, itemized cost of goods and services necessary to perform the work of this Agreement, including:

- Computer-assisted research (Westlaw/Lexis and other on-line services);
- Reimbursable travel expenses for lodging, meals, parking and tolls, plus mileage at the IRS-approved rates;
- Mileage will be charged for travel to/from two Board meetings per month;
- Time engaged in travel to/from additional Board meetings (above the two per month) or other meetings will be billed at one-way travel time (mileage inclusive);
- Delivery charges for US Mail, Federal Express, courier services, etc.;
- Non-incidental Facsimile costs (generally more than 10 pages) and litigation related facsimile costs; \$1.00/page;
- Non-incidental reproduction costs (generally more than 150 pages black and white or 50 pages color) and litigation related reproduction costs; \$.20/page for black and white and \$1.00/page for color;
- Fees assessed by courts and administrative agencies; and
- Pre-approved costs for experts, consultants, or other unusual goods or services, if any.

#### ATTORNEY will not charge for, nor will DISTRICT pay for:

- Incidental facsimiles sent or received (as described above);
- Standard office furniture, machinery or computing devices, including software;
- Telephone services;
- Secretarial services or staff time;
- Incidental reproduction and/or photocopying (as described above); and
- Time engaged in travel to/from two Board meetings per month.

## **EXHIBIT C**

## **ACTIVITY SCHEDULE**

The schedule for ATTORNEY'S activities will be determined by the DISTRICT'S General Manager, in consultation with the ATTORNEY.



# **STAFF REPORT**

Agenda Item: 6.B

Board Meeting Date: January 19, 2022
Prepared By: Frank Wolinski
Approved By: Brett Hodgkiss

SUBJECT: VALVE OPERATING SYSTEM

<u>RECOMMENDATION</u>: Approve the purchase of E.H. Wachs automated valve operating system in the amount of \$77,723.50.

<u>PRIOR BOARD ACTION</u>: On May 18, 2005, the Board approved the purchase of an E.H. Wachs TM-7 valve operator and hydro-vac system that was custom fitted to a newly purchased District vehicle; \$74,000 was included in the Fiscal Year 2022 budget to replace this valve operating system.

FISCAL IMPACT: \$77,723.50 including tax and freight.

<u>SUMMARY</u>: The District needs to replace the current valve operating system. As the current E.H. Wachs valve operating system has proven to be reliable over its 16 years of use, staff recommends purchasing a replacement valve operating system from E.H. Wachs as a sole source purchase to be mounted to a new District vehicle that was also approved in the Fiscal Year 2022 budget.

<u>DETAILED REPORT</u>: The existing E.H. Wachs TM-7 valve operator system has been in service since 2005. Although the valve operating system has proven to be reliable, major components of the vacuum system (spoils tank and vacuum piping) and valve operator have reached the end of serviceable life. The proposed valve operating system is a comparable replacement to the existing unit, yet it is fully assembled on a skid that is planned to be mounted by District forces to a new vehicle also budgeted for (and currently on order) in Fiscal Year 2022.

The controller and data logger for the E.H. Wachs valve operating system uses proprietary software for valve information and tracking that has been previously integrated into the District's Geographical Information System. To maintain consistency of valve operating systems and historical records of valve information, staff is recommending the purchase of a valve operating system manufactured by E.H. Wachs as a sole source purchase in accordance with the District's purchasing policy and procedures.

ATTACHMENT: E.H. Wachs sole source document



A Division of TW

The Valve Maintenance Experts

turnvalves.com

Utility Products Division 600 Knightsbridge Parkway I Lincolnshire, Illinois 60069 T: +1.815.943.4785 | F: +1.815.943.5098

January 10, 2022

This letter serves as a sole source document for the Valve Maintenance Trailer (VMT) & Valve Maintenance Skid (VMS) line of products (including the Hydro-Excavation units) manufactured by E.H. Wachs, Utility Products Division.

The VMT/VMS equipment and accessories are designed, manufactured, assembled and distributed solely by E.H Wachs. The design of this tool is so unique; it has been awarded multiple US patents:

Patent Number 9,523,443 – Position locking system for valve operating machine

Patent Number 9,188,240 - Positioning system for valve operating machine

Patent Number 9,038,667 – Dual arm valve operating machine

Patent Number 8,025,078 - Vehicle mountable arm for valve operating machine

Patent Number 5,937,373 (expired) – Computer control system for controlling a valve machine

Patent Number 5,381,996 (expired) – Sliding valve operator

In the domestic US, regional distribution is through direct salesmen or exclusive territory dealers; for your area Kenny Koch is the only outlet to purchase these products.

To the best of our knowledge, no other vendor manufactures and distributes units with these unique feature sets. Please let me know should you need further details.

Sincerely,

Jeff Swiatowy

Business Unit Manager

Wachs Utility Products



# **STAFF REPORT**

Agenda Item: 6.C

Board Meeting Date: January 19, 2022
Prepared By: Robert Scholl
Reviewed By: Randy Whitmann
Approved By: Brett Hodgkiss

SUBJECT: ACKNOWLEDGEMENT OF EASEMENTS

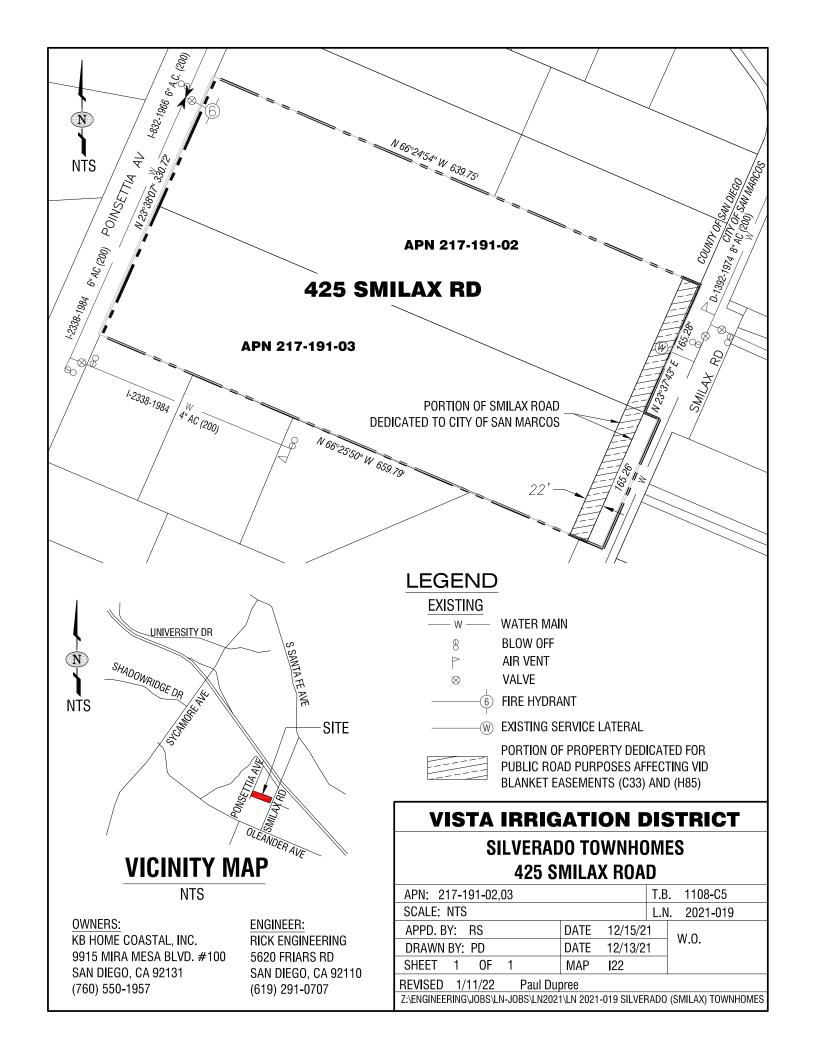
<u>RECOMMENDATION</u>: Acknowledge existing easements via Parcel Map for a multi-family development known as Silverado Townhomes, consisting of 62 attached condominium units on approximately 4.9 gross acres owned by KB Home Coastal, Inc., located at 425 Smilax Road, Vista (TM 5634; LN 2021-019; APNs 217-191-02 and 217-191-03; DIV NO 5).

<u>PRIOR BOARD ACTION</u>: On January 5, 2022, the Board approved the waterline project for Silverado Townhomes.

FISCAL IMPACT: None.

<u>SUMMARY</u>: KB Home Coastal, Inc. is in the process of developing the Silverado Townhomes multi-family project on two parcels consisting of 4.9 gross acres located at 425 Smilax Road, Vista. Blanket Easements (H85) and (C33) currently encumber the project. As part of the project, the developer dedicated a 22-foot portion of Smilax Road to the City of San Marcos; acknowledgement of the easements will allow the owner to record the map with the County Recorder.

ATTACHMENT: Map



# **Cash Disbursement Report**



Payment Dates 12/16/2021 - 1/5/2022

Payment Number	Payment Date	Vendor	Description	Amount
68463	12/29/2021	Refund Check 68463	Customer Refund	2,268.16
68464	12/29/2021	Refund Check 68464	Customer Refund	421.13
68465	12/29/2021	Refund Check 68465	Customer Refund	109.40
68466	12/29/2021	Refund Check 68466	Customer Refund	13.63
68467	12/29/2021	A-1 Irrigation, Inc	3-Way Light Switches (2)	13.02
68468	12/29/2021	ACWA/JPIA	Medical & Dental Insurance 01/2022 - Cobra	33.72
	12/29/2021		Medical & Dental Insurance 01/2022 - Cobra	33.72
	12/29/2021		Medical & Dental Insurance 01/2022 - Cobra	69.09
	12/29/2021		Medical & Dental Insurance 01/2022 - Cobra	925.25
	12/29/2021		Medical & Dental Insurance 01/2022 - Cobra	33.72
	12/29/2021		Medical & Dental Insurance 01/2022 - Cobra	(138.18)
	12/29/2021		Medical & Dental Insurance 01/2022 - Employees	180,326.31
	12/29/2021		Medical & Dental Insurance 01/2022 - Retirees	35,375.57
	12/29/2021		Medical & Dental Insurance 01/2022 - P Dorey	1,919.59
	12/29/2021		Medical & Dental Insurance 01/2022 - R Vasquez	1,919.59
	12/29/2021		Medical & Dental Insurance 01/2022 - M Miller	1,700.96
	12/29/2021		Medical & Dental Insurance 01/2022 - J MacKenzie	1,700.96
	12/29/2021		Medical & Dental Insurance 01/2022 - P Sanchez	1,700.96
68469	12/29/2021	AT&T	3680/CALNET 11/13/21 - 12/12/21 - Phones	411.68
	12/29/2021		0230/CALNET 11/13/21 - 12/12/21 - Teleconference	7.75
68470	12/29/2021	Basic	Cobra 12/2021	55.00
	12/29/2021		Flexible Spending Service 09/2021	216.20
	12/29/2021		Flexible Spending Service 10/2021	216.20
	12/29/2021		Flexible Spending Service 11/2021	216.20
	12/29/2021		Flexible Spending Service 12/2021 /FSA Run Out & Plan Closing	605.36
68471	12/29/2021	Boot World Inc	Footwear Program	180.00
	12/29/2021		Footwear Program	174.53
68472	12/29/2021	Brian Fisher	Reimburse - USB Memory Stick	64.64
68473	12/29/2021	Cavanaugh & Associates, P.A.	2020 AWWA Water Audit Validation	2,500.00
68474	12/29/2021	CDW Government Inc	Firepower License	321.09
68475	12/29/2021	Cecilia's Safety Service Inc	Traffic Control - Clarence Dr	1,520.00
	12/29/2021		Traffic Control - Palomar PI/Oak Dr	1,805.00
	12/29/2021		Traffic Control - Plumosa Ave/Morgan Place	1,567.50
	12/29/2021		Traffic Control - San Clemente Ave	1,425.00
	12/29/2021		Traffic Control - Plumosa Ave/Morgan Place	617.50
	12/29/2021		Traffic Control - Mar Vista Dr	3,182.50
68476	12/29/2021	City of Oceanside	Weese Treatment 11/2021	2,745.75

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Payment Number	Payment Date	Vendor	Description	Amount
68477	12/29/2021	County of San Diego	Permit Fees 11/2021	4,637.50
68478	12/29/2021	D.R. Horton Los Angeles Holding Company	Refund Inspection & As-Builts Deposits	64,978.00
68479	12/29/2021	Dell Awards	VID Name Badge - P Sanchez	17.35
68480	12/29/2021	Streamline	Website Hosting, Maintenance & Support 11/2021	300.00
68481	12/29/2021	DIRECTV	Direct TV Service	102.99
68482	12/29/2021	Ferguson Waterworks	14" Nut, Bolt & Gasket Set 150 lb A307 Zinc (1)	34.64
	12/29/2021		18" Nut, Bolt & Gasket Set 150 lb A307 Zinc (1)	61.70
68483	12/29/2021	Government Finance Officers Association	CAFR Award Fee 12/2021	460.00
68484	12/29/2021	Grand Stands, Inc	Ergonomic Supplies	400.31
68485	12/29/2021	Hi-Line Inc	Hardware - Garage	65.50
68486	12/29/2021	InfoSend Inc	Data Processing/Mailing Service 11/2021	5,013.85
	12/29/2021		Backflow Notices	163.92
	12/29/2021		Support & Storage 11/2021	1,540.88
68487	12/29/2021	Jo MacKenzie	Reimburse - ACWA Conference	1,082.93
68488	12/29/2021	Kronick Moskovitz Tiedemann & Girard	Legal 11/2021 - Indian Settlement	3,201.00
68489	12/29/2021	Leon Perrault Trucking & Materials	Trucking & Material 11/2021	17,532.00
68490	12/29/2021	Liebert Cassidy Whitmore	Legal 11/2021	195.00
68491	12/29/2021	Medical Eye Services	Vision Insurance 01/2022 - Employees	1,530.92
	12/29/2021	·	Vision Insurance 01/2022 - R Vasquez	14.24
	12/29/2021		Vision Insurance 01/2022 - M Miller	14.24
	12/29/2021		Vision Insurance 01/2022 - P Sanchez	14.24
	12/29/2021		Vision Insurance 01/2022 - P Dorey	14.24
	12/29/2021		Vision Insurance 01/2022 - J MacKenzie	14.24
68492	12/29/2021	Mutual of Omaha	LTD/STD/Life Insurance 01/2022	6,235.66
68493	12/29/2021	North County Ford	Reimbursement for Damage - Truck 75	(283.91)
	12/29/2021		Replaced Transmission Control Module - Truck 49	576.45
68494	12/29/2021	North County Industrial Park	Association Fees 01/2022	879.30
68495	12/29/2021	North County Powder Coating Inc	Powder Coating	83.81
68496	12/29/2021	Pacific Pipeline Supply	PO Reducer 12"x10" (1)	515.56
68497	12/29/2021	Ramco Petroleum	Fuel 11/2021	1,955.35
68498	12/29/2021	Richard McCredie	Refund Cancelled Water Application Fees	17,566.00
68499	12/29/2021	S & R Towing	Towing Service 12/17/21 - Truck 65	200.00
68500	12/29/2021	San Diego Gas & Electric	Electric 11/2021 - Henshaw Building & Grounds	945.79
	12/29/2021		Electric 11/2021 - Henshaw Wellfield	30,502.97
	12/29/2021		Electric 11/2021 - Cathodic Protection & T&D	255.66
	12/29/2021		Electric 11/2021 - Reservoirs	179.29
	12/29/2021		Electric 11/2021 - Pump Stations	11,383.37
	12/29/2021		Electric 11/2021 - Plants	98.31
68501	12/29/2021	Shred-it USA LLC	Shredding Service 11/08/21	135.43
	12/29/2021		Shredding Service 12/06/21	138.74
68502	12/29/2021	SignArt	EIN Decals - B6	38.79
68503	12/29/2021	SiteOne Landscape Supply, LLC	Weld-On 725 Wet Dry PVC Glue (12)	163.18

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Payment Number	Payment Date	Vendor	Description	Amount
	12/29/2021		Primer Christy's Purple (12)	133.10
	12/29/2021		Ultraseal PTFE Thread sealant, HP 1/2 pint (24)	275.30
	12/29/2021		3" PVC Pipe (20)	94.00
68504	12/29/2021	Southern Counties Lubricants, LLC	Fuel 12/01/21 - 12/15/21	7,178.03
68505	12/29/2021	Sunrise Materials Inc	Straw Waddles (7)	340.99
68506	12/29/2021	Trench Plate Rental Co	Plate Inserts, Eyebolt Swivel	1,047.25
68507	12/29/2021	TS Industrial Supply	Hoses (40)	76.80
	12/29/2021		Knee pad ultralight with hardshell (1)	17.27
	12/29/2021		Blade Replacement VP-30 PVC (1)	29.23
	12/29/2021		Measuring Tape Holder 25' (4)	64.30
	12/29/2021		Measuring Tape 25' Engineering (6)	120.16
	12/29/2021		Head Lights (5)	208.38
	12/29/2021		Cartridges MSA Comb for P100 6 per box (2 bx)	274.96
	12/29/2021		Gloves Thickster Nitrile XL 100 per box (10 bx)	281.45
	12/29/2021		Blade 14" Diamond Concrete (2)	467.64
	12/29/2021		Cutter 1/8" to 1 5/8" Ridgid #RC-1625 PVC (1)	76.15
68508	12/29/2021	Underground Solutions, Inc	Vacuum Excavation - Crystal Ridge	1,300.00
68509 - 68510	01/05/2022	Refund Checks 68509 - 68510	Customer Refunds	493.84
68511 - 68512	01/05/2022	Refund Checks 68511 - 68512	Customer Refunds	698.28
68513	01/05/2022	A-1 Irrigation, Inc	Surveyor Flags, Sand Bags	129.13
68514	01/05/2022	Airgas USA LLC	Lens, Electrode Sticks	84.80
68515	01/05/2022	Amazon Capital Services	Recoil Starters	43.28
	01/05/2022	·	Spray Bottles, Welder Nozzles	134.76
	01/05/2022		Traffic Cone Holders - Truck 75	56.39
68516	01/05/2022	American Truckboxes, LLC	Tool Boxes - Truck 44	7,642.63
68517	01/05/2022	AT&T	Data Circuit	698.93
	01/05/2022		SIP Trunks	450.85
68518	01/05/2022	Brent Reyes	Tuition Reimbursement 12/2021	159.00
68519	01/05/2022	California Department of Tax and Fee Administration	E-Waste Return 12/2021	19.00
68520	01/05/2022	CDW Government Inc	Wireless Mice (3)	102.69
	01/05/2022		Microsoft Surface Pro Type Cover (1)	117.80
68521	01/05/2022	Cecilia's Safety Service Inc	Traffic Control - San Clemente Ave	5,082.50
68522	01/05/2022	Citi Cards	Construction Notification Sign - E Reservoir	798.89
	01/05/2022		HABs Water Quality Monitoring Supplies	126.95
	01/05/2022		ACWA Conference - R Whitmann	(580.00)
	01/05/2022		Costco Membership Dues	180.00
	01/05/2022		Kitchen & Restroom Supplies	1,362.81
	01/05/2022		Kitchen & Restroom Supplies	43.28
	01/05/2022		GFI FaxMaker Online Service	12.75
	01/05/2022		Multi-factor Authentication on User Accounts	6.00
	01/05/2022		Software to Convert Apple HEIC Images to JPEG	25.99
	01/05/2022		Microsoft Basic Online 365 Licenses	18.00

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Payment Number	Payment Date	Vendor	Description	Amount
	01/05/2022		Microsoft Azure Cloud Service	393.21
	01/05/2022		One Drive Online Service	15.00
	01/05/2022		Employment Advertising - System Control Supervisor	100.00
	01/05/2022		Employment Advertising - Heavy Equipment Operator	200.00
	01/05/2022		Employment Advertising - Laborer Trainee	200.00
	01/05/2022		Service Award Card Fee	28.90
	01/05/2022		Employee Appreciation Refreshments	17.26
	01/05/2022		ACWA Conference - P Dorey	(252.27)
	01/05/2022		CRWUA Conference - R Vasquez	312.92
	01/05/2022		ACWA Conference - R Vasquez	(756.83)
	01/05/2022		CRWUA Conference - M Miller	229.02
	01/05/2022		CRWUA Conference - P Sanchez	156.46
	01/05/2022		SCWC Luncheon Mtg - P Dorey	100.00
	01/05/2022		CRWUA Conference - M Miller	505.00
	01/05/2022		CRWUA Conference - J MacKenzie	505.00
	01/05/2022		CRWUA Conference - P Sanchez	505.00
	01/05/2022		CRWUA Conference - R Vasquez	505.00
	01/05/2022		Cloud Based Phone System - COVID 19	24.38
	01/05/2022		Fiberglass Hood - Truck 44	2,605.00
68523	01/05/2022	Coast Equipment Rentals	Concrete	276.04
68524	01/05/2022	Core & Main	Ell 8" DI FL 45 Degree (2)	461.15
	01/05/2022		Flange 4" DI Blind (2)	102.51
	01/05/2022		Adapter FH Brass 2.5"x2" (2)	35.72
	01/05/2022		Nozzle 1.5" Fire Hose (3)	45.47
	01/05/2022		Adapter 2.5" MNST X 2" MIPT Hose (2)	54.13
	01/05/2022		Tee 6" DI Flange (1)	244.65
	01/05/2022		Flange 6" SOW 8-hole (7)	265.21
	01/05/2022		Service Saddle 8x1 PVC (2)	271.71
	01/05/2022		Service Saddle 8x2 PVC (2)	295.83
	01/05/2022		Tubing 1" Copper Soft 60' (180)	1,578.29
	01/05/2022		Coupling 12" Repair PVC C900 (2)	764.25
	01/05/2022		Ball Mtr Valve.75" Lockwing FIPxSwivel Mtr Nut (10)	733.94
	01/05/2022		12" POXFlg Angle (1)	556.09
	01/05/2022		Coupling 12" Deflection C900 (3)	1,070.57
	01/05/2022		Coupling 12" Repair PVC C900 (2)	903.21
68525	01/05/2022	CoreLogic Solutions Inc	Real Quest Online Service 11/2021	597.10
68526	01/05/2022	Craneworks Southwest Inc	Rebuilt Hydraulic Cylinder - B6	820.16
68527	01/05/2022	Diamond Environmental Services	Portable & Stationary Restroom Service	417.47
68528	01/05/2022	EDCO Waste & Recycling Services Inc	Trash & Recycle Service 12/2021	250.96
68529	01/05/2022	Eurofins Eaton Analytical Inc	Mid-Lake Samples	345.00
68530	01/05/2022	Ferguson Waterworks	12" PO EII (1)	493.08
68531	01/05/2022	FMLASource	FMLA Program 02/2022 - 01/2023	1,848.00

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Payment Number	Payment Date	Vendor	Description	Amount
68532	01/05/2022	G & R Auto & Truck Repair	Replaced AC Compressor/Recharged System - Truck 65	920.52
68533	01/05/2022	Glennie's Office Products Inc	Office Supplies	76.18
	01/05/2022		Office Supplies	21.83
	01/05/2022		Office Supplies	137.42
	01/05/2022		Office Supplies	(73.29)
68534	01/05/2022	Itron Inc	Hardware & Software Maintenance 2022	9,121.38
68535	01/05/2022	Jo MacKenzie	CRWUA Conference 12/2021 - J MacKenzie	684.51
	01/05/2022		CRWUA Conference 12/2021 - R Vasquez	79.50
	01/05/2022		CRWUA Conference 12/2021 - P Sanchez	79.50
	01/05/2022		CRWUA Conference 12/2021 - M Miller	79.50
68536	01/05/2022	Ken Grody Ford Carlsbad	Passenger Side Mirror Glass - Truck 13	30.60
68537	01/05/2022	Lightning Messenger Express	Messenger Service 12/03/21	58.50
68538	01/05/2022	Mar-Con-Products Inc	Vault Steps - Mason Rd Regulator	61.09
68539	01/05/2022	NAPA Auto Parts	Filters (3)	18.21
68540	01/05/2022	North County Auto Parts	Shop Chemicals, Wiper Blades	97.30
68541	01/05/2022	North County Powder Coating Inc	Powder Coated 14" End Cap	345.56
68542	01/05/2022	Parkhouse Tire Inc	Tires (2) - Truck 40	444.22
68543	01/05/2022	Interstate All Battery Center	Batteries (2)	34.16
68544	01/05/2022	Rincon del Diablo MWD	MD Reservoir Water Service	72.58
68545	01/05/2022	San Diego Friction Products	Warning Switches (2)	98.36
68546	01/05/2022	San Diego Gas & Electric	Gas Use 12/2021	1,595.53
	01/05/2022		Electrical Use 12/2021	4,869.77
	01/05/2022		Electric 12/2021 - Warner Ranch House	82.94
68547	01/05/2022	Stephen Huynh	Tuition Reimbursement 12/2021	3,200.00
68548	01/05/2022	The UPS Store 0971	Shipping 12/2021	1,279.14
68549	01/05/2022	Bend Genetics, LLC	HABs Lab Analysis	965.00
	01/05/2022		HABs Lab Analysis	550.00
	01/05/2022		HABs Lab Analysis	965.00
68550	01/05/2022	Total Fence Solutions, Inc	Fence Installation - San Luis Rey Reservoir	5,900.50
68551	01/05/2022	Verizon Wireless	Air Cards 11/13/21 - 12/12/21	152.04
	01/05/2022		Cell Phones 11/16/21 - 12/15/21	1,479.17
	01/05/2022		SCADA Remote Access	381.63
68552	01/05/2022	Vista Chamber of Commerce	Membership Renewal 2022	845.00
68553	01/05/2022	White Cap Construction Supply	Expansion Foam	56.47
68554	01/05/2022	Xerox Corporation	Xerox Service & Supplies	342.11

Grand Total: 501,987.02

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# **STAFF REPORT**

Agenda Item: 7

Board Meeting Date: January 19, 2022
Prepared By: Shallako Goodrick
Reviewed By: Marlene Kelleher
Approved By: Brett Hodgkiss

SUBJECT: WATER RATES AND TIERED WATER RATE STRUCTURE

#### **RECOMMENDATIONS:**

a) Conduct a public hearing for the purpose of receiving and considering comments on and protests filed against the proposed water rate and service charge increases including the pass through of San Diego County Water Authority costs and annual inflationary adjustments for a five-year period (Rate Adjustment Policy) and modifications to the tiered water rate structure allotments.

b) Consider adopting Resolution No. 22-XX revising the Rules and Regulations of Vista Irrigation District to incorporate one-time increases to water rates and service charge, approving the pass through of San Diego County Water Authority costs and annual inflationary adjustments (Rate Adjustment Policy) for the next five years and modifications to the tiered water rate structure allotments.

#### PRIOR ACTION:

07/15/2009 Conducted a public hearing and adopted Resolution No. 09-40 which adopted a revised water rate structure and amended certain provisions of the District's Rules and Regulations relative to water rates and service charges.

10/09/2013 Conducted a public hearing and adopted Resolution No. 13-38 renewing the District's Rate Adjustment Policy for a period of five years.

10/18/2017 Conducted a public hearing and adopted Resolution No. 17-38 renewing the District's Rate Adjustment Policy for a period of five years.

FISCAL IMPACT: The water rate structure includes pass-through of San Diego County Water Authority (Water Authority) fees and charges imposed on the District for water purchases and an increase to cover the District's capital needs and other obligations. Additionally, an increase to the service charge is being proposed along with the implementation of an annual water rate adjustment commencing July 1, 2023 and ending July 1, 2026. Adoption of the proposed water rate changes should ensure that the District's revenues and reserves sufficiently fund current and future operations and capital costs.

<u>SUMMARY</u>: To comply with the procedural requirements of Proposition 218, staff mailed to all residents and owners, a Notice of Public Hearing (Notice) to consider the adoption of proposed water rate changes (Rate Adjustment Policy). The Notice of Public Hearing informed the public of the District's proposal to 1) pass through costs from the Water Authority for a period of five years; 2) impose annual inflationary adjustments for a period of five years; 3) modify Tier 1 allotments; 4) increase the water rates for all tiers and the Special Agricultural Water Rate (SAWR) program; and 5) increase the District's service charge (for each meter size). The notification complies with the procedural requirements of Proposition 218.

The Notice of Public Hearing (sent to all residents and owners) was also provided to interested parties, consistent with Government Code Section 66016, and posted on the District's website on December 3, 2021. Additionally, a Notice of Public Hearing was (and will have been) duly published in The San Diego Union-Tribune (Union-Tribune), a newspaper of general circulation in the District's service area, on January 10, 2022 and January 16, 2022. The affidavit of publication will be included as part of the administrative record and made available to the public upon receipt from the Union-Tribune.

Also in compliance with Proposition 218, staff conducted a cost of service analysis (Water Rate Study) to ensure that the proposed water rate and service charge increases, modification of the tiered rate structure and renewal of the Rate Adjustment Policy equitably recovers the costs associated with providing water service to each customer. The Water Rate Study is an attachment to this report and has been available on the District's website since the mailing of the notices on December 3, 2021, as previously noted. The Water Rate Study examined operating and capital improvement costs and projected these costs over a five-year period ending in Fiscal Year 2027. The projections are based on estimated costs necessary to continue to operate and maintain the water system for our ratepayers, and utilizes industry standard cost indexes and historical averages.

<u>DETAILED REPORT</u>: As discussed in the Water Rate Study, the District proposes to implement a Rate Adjustment Policy for five years to ensure that the District has sufficient revenues to cover the costs of providing water service. It is anticipated that implementation of proposed water rate and service charge increases, including the pass-through of Water Authority fees and charges and inflationary adjustments, will generate revenues over the upcoming five years to recover, but not exceed, the cost of providing water service. These costs include, but are not limited to, water purchases from the District's wholesale supplier, the Water Authority, system operation and maintenance, facility and equipment maintenance, system rehabilitation, capital improvements, regulatory compliance, metering, billing, conservation and account management.

# Pass-Through of San Diego County Water Authority Fees and Charges

The District proposes to pass through 100% of any increase or decrease in the Water Authority's fees and charges imposed on the District for water purchases through December 31, 2026. The pass-through of Water Authority fees and charges for the first year of the five-year period is 12 cents per unit (one unit = 748 gallons). This amount is comprised of a 20-cent per unit increase, less an eight-cent per unit rebate received from the Water Authority related to the resolution of a decades long rate case against the Metropolitan Water District of Southern California.

# **Inflationary Adjustments to Rates and Charges**

The District proposes an increase to the service charge and impose an inflationary increase each year on July 1. If the proposed rates were to be adopted, the automatic pass-through of an annual inflationary adjustment (based on the U.S. Department of Labor's Consumer Price Index – All Urban Consumers – San Diego, California for the previous calendar year ended) to the service charge would not be necessary for July 1, 2022. Annual inflationary adjustments would commence on July 1, 2023 and continue through July 1, 2026. The annual inflationary adjustment is applied to District costs only. The amount of the increase included in initial adjustment to the service charge, based on a ¾-inch meter, is \$1.42 per month (\$2.84 bi-monthly).

#### **Tier Allotment Adjustments**

The District proposes to modify the Tier 1 allotment (the amount of water charged at the Tier 1 rates). Consistent with the 2009 methodology, 50% of the average usage for a 3/4-inch meter was used to determine the Tier 1 allotment. Hydraulic capacity was used, based on the 3/4-inch meter, to determine the Tier 1 allotments for the other meter sizes. The Tier 3 water rate is only implemented when penalties may be assessed by the Water Authority in the event that the District exceeds its allocation during a mandatory water use reduction.

	Current	Proposed		
Meter	Tier 1	Tier 1		Meter
Size	Allotment	Allotment	Difference	Size
5/8"	7	4	3	5/8"
3/4"	10	6	4	3/4"
1"	25	15	10	1"
1 1/2"	50	30	20	1 1/2"
2"	80	48	32	2"
3"	160	96	64	3"
4"	250	150	100	4"
6"	500	300	200	6"
8"	800	480	320	8"
10"	1,150	690	460	10"

Monthly Water Allotments (Units) by Tier					
	Current	Proposed	Proposed	Proposed	
Meter	Tier 1	Tier 1	Tier 2	Tier 3	
Size	Allotment	Allotment	Allotment	Allotment	
5/8"	0-7	0-4	5-42	43+	
3/4"	0-10	0-6	7-60	61+	
1"	0-25	0-15	16-150	151+	
1 1/2"	0-50	0-30	31-300	301+	
2"	0-80	0-48	49-480	481+	
3"	0-160	0-96	97-960	961+	
4"	0-250	0-150	151-1,500	1,501+	
6"	0-500	0-300	301-3,000	3,001+	
8"	0-800	0-480	481-4,800	4,801+	
10"	0-1150	0-690	691-6,900	6,901+	

#### **Water Rate Increases**

The District proposes a one-time increase to the District's portion of the commodity rates during the five-year period, which represents a 16-cent per unit increase to the Tier 1 rate and a nine-cent per unit to the Tier 2/3 rate (under the new tier allotment structure). For agricultural water program participants, domestic SAWR program water use will continue to be billed at a flat rate.

Proposed Rates							
	Current	Vista Irrigation	San Diego County	Rebate Credit Applied	Proposed		
	Rates Per	District	Water Authority Pass-	To Pass-Through	Total Rates		
	Unit	Increase	Through	Increase	Per Unit		
Tier 1	\$4.44	\$0.16	\$0.20	-\$0.08	\$4.72		
Tier 2/3	4.98	0.09	0.20	-0.08	5.19		
Agricultural Programs Only							
Domestic usage	4.76	0.15	0.20	-0.08	5.03		
SAWR usage	3.91	0.07	0.20	-0.08	4.10		

<sup>\*1</sup> Unit = 748 Gallons

As a governmental district, and unlike a public utility, the District does not make a profit or have shareholders, and all revenues go back into the water system. Revenues derived from the proposed rate increases will not exceed the cost to provide water service to customers, and the revenues will not be utilized for any purpose other than financing the District's operating and capital needs.

The proposed changes comply with Section 13D of the California Constitution (Proposition 218), section 6 "Property Related Fees and Charges", subsections "a" through "b" because of the following:

- The District identified each parcel affected by the proposed changes and sent via US mail, a notice of public hearing which included the proposed renewal of the Rate Adjustment Policy, the reason for the proposed renewal, and the date, time and location of the public hearing on the proposed renewal.
- The District will conduct a public hearing on January 19, 2022 at 9:00 a.m., in the Board Room at its Administrative Office at 1391 Engineer Street, Vista, CA 92081. The public hearing was noticed in the North County edition of the Union-Tribune twice, once on January 10, 2022 and once on January 16, 2022. The proof of publication is on file with the District Secretary.
- Revenue derived from the proposed renewal will be revenue neutral, meaning that the revenues generated by the proposed changes will not exceed the cost to provide water service to customers and the revenues will not be utilized for any purpose other than financing the District's operating and capital needs.

Specifically, the proposed rate structure satisfies the specific substantive requirements of Article 13D, section 6(b), as follows:

- The District's rate revenue does not exceed the funds required to provide the District's water service because the proposed renewal of the Rate Adjustment Policy will not generate revenues that exceed the funding needed to provide the District's water service, including necessary capital improvements to ensure continued service. Without the proposed renewal of the Rate Adjustment Policy, the District will eventually exhaust its reserves.
- The revenues derived from the District's water rates will not be used for any purpose other than water service, as the District is a single purpose agency that does not perform services other than the delivery of water to its customers. All of the District's revenues are dedicated to pay the expenditures incurred in acquiring, storing, treating, and delivering water to the customers within its boundaries. Unlike other water agencies, which may provide wastewater, drainage or other utility services, the District's single purpose ensures that the rate revenues are applied only to cover the cost of the water service.
- The District's water rate structure does not support any general governmental services that non-customers receive at lower or no cost because, as a single purpose retail water agency, the District only uses its water rate revenues to provide water service to its customers. In other words, the only persons who receive District water service are the District's rate-paying customers.

As of the writing of this staff report, the District had received written protests representing 11 properties under the terms of the Proposition 218 notice.

# **ATTACHMENTS**:

- > Water Rate Study
- > Proposition 218 Notice of Public Hearing (mailer)
- ➤ Notice of Public Hearing (publication)
- Protest Letter Summary
- Protest Letters
- Protest Response Letters
- > Strikeout version of amended sections of the Rules and Regulations
- > Draft resolution



# Water Rate Study 2021



This Water Rate Study (Study), prepared by Vista Irrigation District (District) staff, resulted in the recommended water rate structure and water rates.

# **Objectives**

Presented Rates are Legal and Defensible – Staff developed the recommended rate structure with no arbitrary attributes or components. Staff was sensitive to the outcomes of recentrate litigation and common law guidance provided by their decisions.

Rates Presented Satisfy the District's Mission Statement and Values – The District's Mission Statement, to provide a reliable supply of high quality water that meets the needs of its present and future customers in an economically and environmentally responsible manner, is achieved through satisfying adopted values, including "reliable facilities, efficient operations and fiscal strength and stability". The revenue requirement covered by the recommended rates includes all operation and maintenance costs as well as a provision for infrastructure replacement and upgrades.

*Provide a thorough and understandable administrative record* – This Study along with the Rate Model; a spreadsheet documenting methodologies, calculations, and processes; a consumption use analysis; and all presentations to the District's Board of Directors (Board) provide a thorough and understandable administrative record.

Nothing arbitrary (tier levels, cost acceleration from tier to tier, etc.) – Tier levels are tied to historical usage behavior patterns. Costs to provide water within each tier are well documented and based on the costs of water supply and maintenance costs at various levels of use.

Establish a revenue requirement that exhausts all efforts to cut costs and maintains or increases the current level of service and workforce engagement – This objective is achieved through the participative budget process employed by District staff. Since the introduction of tiers in 2009, the District has continued its analysis of costs and have continued to reduce expenditures when possible; the District has eliminated 14 positions through streamlining of processes and improvements in technology. The District will continue to reduce costs when possible but the current staffing level is required to operate and ensure business continuity for the District.

# **Water Rate History**

**2009** Water Rate Public Hearing- In 2009, the District conducted a thorough analysis with the intent to implement tiered water rates due in part to the drought and implementation of mandatory water use reductions. It was decided to implement a three-tier water rate structure. The methodology used to establish the Tier 1 allotment was 50% of the average usage for a 3/4 meter; this average was used with hydraulic capacity of the meter size to establish Tier 1 allotments for all meter sizes. Tiers based on meter size permitted allotments to be established based on the hydraulic capacity that a customer had paid for when originally purchasing their meter. This methodology did not require complex technical billing changes, calculating a separate budget for each individual customer or setting up a process to allow for variances to established budgets based on each household's unique situation. The District determined that implementing a system based on hydraulic capacity as opposed to unique "water budgets" would result in lower costs to the District due to not needing to hire additional staff or implement new software to accommodate the establishment of individual customer water budgets. The theory behind this approach was that larger meters had already paid for more capacity at installation so they were entitled to a tier allotment based on the hydraulic capacity of

the meter size, which was appropriate for the parcel and its development.

Tier 3 was established at volumes that would incur a penalty from the San Diego County Water Authority (Water Authority) for not conserving during the drought. Tier 2 represented the volume between Tier 1 and Tier 3. Tier 3 water use has been billed at Tier 2 rates, except during a period (6 to 9 months) when mandatory water use reductions were implemented in 2009 and 2010.

Participants in the agricultural water rate program (Water Authority's Special Agricultural Water Rate program) pay a water rate that reflects a reduced level of service and supply reliability. Program participants are the first to be cutback in the event of drought or other water shortages. Additionally, current program participants will be required to reduce their water use at a greater level (by a minimum of 5%) than municipal and industrial water users.

The 2009 study is the basis of the tiered water rate structure, including allotments in place today.

At the same time it approved of the 2009 rates, the Board approved a Rate Adjustment Policy. The Policy permitted the automatic pass-through of all Water Authority fees and charges for wholesale water and water related services to District customers; and the adjustment of District water rates to reflect inflationary costs (based on the Consumer Price Index – All Urban Consumers – San Diego) on July 1 of each year. The Policy allowed the above-described adjustments to take place for a period of five years.

**2013** and **2017** Water Rate Public Hearings- In 2013 and again in 2017, an analysis of water rates was completed to determine if an increase (beyond what was allowed for by the adopted Rate Adjustment Policy) was necessary. It was determined that the District did not need to increase its water rates and continuation of the existing Rate Adjustment Policy would cover the cost of wholesale water purchases as well as operation and maintenance and infrastructure replacement costs. At the conclusion of the public hearings held in 2013 and 2017, the Board approved the continuation of the Rate Adjustment Policy (Water Authority pass-through and inflationary adjustment) for a period of five years.

# **Relevant Guidance**

The California Constitution provides the highest level of authoritative support for California water rate setting. Industry guidance, while not authoritative, is most prevalent in the M1 Manual published by the American Water Works Association.



# Statutory Law & California Constitution

The California Constitution has recognized the importance of conserving water since 1925 when Article X, Section 2 was adopted – "The general welfare requires that the water resources of the State be put to beneficial use to the

fullest extent of which they are capable, and that the waste or unreasonable use of water be prevented." In 1977, California Water Code Section 375 provided that agencies may adopt and enforce a water conservation program. Later amended in 1993, Water Code Section 375 stated that a water conservation ordinance or resolution may encourage conservation through rate structure design.

Proposition 218 (1996) added Articles XIII C and D to the California Constitution, which established procedural and substantive requirements for property related fees. Procedural requirements, Article XIIID Section 6(a), refer to holding a public hearing, the noticing thereof, and majority protests. Section (b) requires that fees not exceed the cost to provide the service, not be used for any other purpose, and notexceed the proportional cost of providing the service attributable to the parcel on which it is imposed.

Water Code sections 370-374 (2008) established volumetric allotments of water, a basic charge, a conservation charge, and proportionality and cost-revenue nexus requirements through tiers and allocations. Conservation and water resource management costs are to be determined and supported.

Proposition 26 (2010) clarified the meaning of "tax" requiring voter approval and identified five specific exceptions, one of which is "A charge imposed for a specific government service or product ... which does not exceed the reasonable costs ... of the service or product ..."

Government Code § 53756 authorizes water districts, such as the District to impose automatic adjustments on certain fees over a five-year period to water users, provided it meets the following criteria: (i) the District adopts a schedule of fees or charges for a property-related service for a period not to exceed five years; (ii) the schedule of fees may include a schedule of inflationary adjustments; (iii) the schedule may pass through any increases in the wholesale charges for water; and (iv) provided the District provides 30-day notice of the adjustment.

# **Industry Guidance**

<u>Principles of Water Rates, Fees and Charges, Manual of Water Supply Practices, M1</u>, published by the American Water Works Association, is commonly known as the M1 Manual, and is frequently used as guidance by rate consultants. The <u>M1 Manual</u> is not specific to California rate setting, but most of the larger consulting firms performing cost of service studies in California rely heavily on the <u>M1 Manual</u> and are contributing authors and editors to the publication.

# **Data Collection and Analysis**

# **Demand Projection**

Staff analyzed recent usage behavior trends since the implementation of tiered water rates in 2009. Table 1 below shows the impact of water conservation as sales (in acre-feet) have decreased by 26% using a five-year rolling average; this decrease has occurred while the number of connections has increased by 2.5% (as illustrated in Table 2). The decrease in water consumption is largely related to the implementation of water use efficiency practices and water conservations measures, such as the installation of water-efficient devices and the replacement of lawn with low water use plants. The reduction in water use from these activities is anticipated to yield consistent consumption patterns in future years; appreciable growth in water sales is not anticipated during the five-year period covered by this Study. The District's service area is not built out so growth and new service connections are expected; however, growth is expected to be in-fill development and take place at a rate similar to what is shown in Table 2. This Study is based on Fiscal Year 2022 budget, which

uses a three-year average to determine water sales.

Table 1

		5 Year	Percent Change 5 Year			
Fiscal Year	Water Sales af	Average	Avg 2009 to 2021			
2021	17,322	16,093	-26%			
2020	15,224	15,503		Table 2		
2019	15,484	15,882		Fiscal	Service	Percent change
2018	16,937	16,610		Year	Connection	2010 to 2021
2017	15,496	17,004		2021	29,007	2.5%
2016	14,375	17,353		2020	28,879	
2015	17,117	17,996		2019	28,780	
2014	19,128	18,227		2018	28,688	
2013	18,904	18,575		2017	28,622	
2012	17,241	19,266		2016	28,443	
2011	17,590	20,352				
2010	18,273	21,245		2015	28,625	
2009	20,866	21,893		2014	28,580	
2008	22,362			2013	28,415	
2007	22,667			2012	28,409	
2006	22,057			2011	28,313	
2005	21,513			2010	28,305	

# <u>Defining Customer Classifications - Tiers by Meters</u>

The ideal solution to developing rates for water utility customers is to assign cost responsibility to each individual customer served and to develop rates that reflect that cost. Unfortunately, it is neither economically practical nor often possible to determine the cost responsibility and applicable rates for each individual customer served. However, the cost of providing service can reasonably be determined for groups or classes of customers that have similar water-use characteristics ...

American Water Works Association, Principles of Water Rates, Fees, and Charges – M1 Manual

The District's current rate structure establishes customer classifications by meter size. A water rate structure tiered by meter size simulates allotments used in a budget-based system without having to implement resource-intensive methods, procedures and technologies. Customers with larger meters pay higher service charges and pay for greater capacity in the system.

Per the industry standard, as published in the M1 Manual, "In some cases, it may be better to determine customer classes based on meter size. A utility can also implement an increasing block structure by meter size if it can demonstrate a consistent relationship or homogeneous usage pattern by meter size."

# **Financial Requirement Analysis**

#### **Budget Projection**

The rate model is based on the Budget for the Fiscal Year Ending June 30, 2022 approved by the Board on June 6, 2021. The Budget is created each year based on historical averages for water sales, water purchases and local water production. Other revenue sources and expenses are based on historical averages or current data

if known at the time. The water purchased costs remain constant for all projected years since the District passes-through those costs directly to customers; an increased expense is not recognized for purchased water and additional revenue charged to cover the cost is not recognized. The Budget is projected forward for five-years using an average historical inflationary factor for most items and actual data if known. The budget projection assumes an inflation adjustment (based on the U.S. Department of Labor's Consumer Price Index – All Urban Consumers – San Diego, California) on July 1 to the service charge will continue until Fiscal Year 2027. The budget projection excludes depreciation since it is not a cash flow item and instead incorporates District Capital Project expenditures anticipated through Fiscal Year 2027. Capital expenditures for Fiscal Years 2022 through 2027 are projected to be approximately \$78.7 million (see Attachment A, Capital Projects).

Budget projections through Fiscal Year 2027, as previously outlined, are used to determine the surplus or shortfall in revenue and cashflow compared to Board adopted required reserves such as Emergency and Contingency and Working Capital reserves as well as an adequate reserve balance to support funding Capital Improvement reserve desired; Attachment B, Budget Projection through Fiscal Year 2027, shows a decrease in cash at the end of Fiscal Year 2027 of \$16.3 million.

# Capital Projects Requiring the Rate Adjustment

The anticipated expenditures for Capital Projects during the next five years includes an accelerated timeline on reservoirs and increased costs for the San Pasqual Undergrounding Project as detailed in this section. The Capital Projects list also includes on-going main replacement (\$16.3 million through Fiscal Year 2027); the goal of the Main Replacement Program is to replace pipelines before they reach the end of their useful life and become a maintenance liability and to replace pipelines due to street realignments and/or improvements. Proactively replacing aging pipelines reduces the potential for catastrophic breaks and resulting water service outages.

In addition, the District entered into an agreement with Murray Smith for the Four Reservoirs Seismic and Structural Analysis project. The report findings, which included a proposed project schedule for the four reservoir projects, were presented to the Board on November 18, 2020 (see Attachment C, Four Reservoirs Board Report). The findings for the conditions of E, A and Deodar reservoirs (described in Attachment C) resulted in their respective project completion timelines to be accelerated; it is anticipated that the District will spend approximately \$19.2 million on these reservoir projects through Fiscal Year 2027.

Similarly, in September 2018, Richard Brady & Associates was hired to perform an inspection, assessment and structural analysis of the Pechstein Reservoir's roof; it was determine that the roof needed to be replaced (see Attachment D, Excerpt from Roof Structural Assessment Report). Pechstein Reservoir is the District's largest at 20 million gallons and is critical to its system operations. In order to replace the roof, Pechstein Reservoir will need to be taken out of service. A new reservoir, Pechstein II, will need to be constructed prior to Pechstein Reservoir being taken out of service; Pechstein II Reservoir will assist with system operations while Pechstein Reservoir is offline and provide additional storage capacity required for outages, as outlined in the District's Water Master Plan (see Attachment E, Excerpt from Potable Water Master Plan). The cost of constructing Pechstein II and the beginning of the new roof will cost approximately \$11.9 million through Fiscal Year 2027.

The San Pasqual Undergrounding Project (SPUP) is a project to remove, relocate and replace about 2.5 miles of the Escondido Canal that cross the San Pasqual Indian Reservation. Completion of SPUP is a requirement of the San Luis Rey Indian Water Rights Settlement Agreement, which became effective on May 17, 2017; the project is required to be completed by May 17, 2023 (Attachment F, excerpt from the San Luis Rey Indian Water Rights Settlement Agreement). While both the City of Escondido (City) and the District are jointly responsible to complete the project, the City is responsible for managing the design and construction of the

SPUP. Estimated project costs have risen significantly (\$27 to \$50 million) since the District's last public hearing on water rates. The District's estimated portion of the project cost (50 percent) was approximately \$13.5 million in 2017; the District's share of the project cost has risen to just over \$25 million at present.

# Reserves

The District maintains the following Reserve Accounts: Emergency and Contingency Reserve, Working Capital Reserve, Water Purchase Stabilization Reserve, and Capital Improvement Reserve.

- The Emergency and Contingency Reserve balance is \$10 million as of June 30, 2021 and is calculated
  as 10% of the District's Net Fixed Assets plus all Capital in Progress accounts. The Emergency and
  Contingency Reserve is for unanticipated expenses resulting from emergencies including, but not
  limited to, earthquakes, floods, winds, wildfires, or other unforeseen events that cause damage to
  District facilities and properties.
- The Working Capital Reserve balance is \$10 million as of June 30, 2021 and is calculated as 20% of Water Revenues. The Working Capital Reserve is for operating revenue and expense variances and timing in collections and payments.
- The Water Purchase Stabilization Reserve is contributed to when the District has excess local water over the 60-year average. The Water Purchase Stabilization Reserve is currently zero due to a lack of surplus local water in recent years with any balance from prior years being used in its entirety.
- The Capital Improvement Reserve represents remaining funds available. The purpose of the Capital Improvement Reserve is to fund for the District's Capital Improvement program.

The total cash balance for the District as of Fiscal Year June 30, 2021 was approximately \$46.5 million. Surplus Supplemental Water (used to pay the San Luis Rey Indian Water Authority for surplus supplemental water in January each year) and the Water Rebate (used to offset adjustments to the Water Authority's fees and charges for wholesale water and water related services) cannot be expended on operations and/or capital projects. As shown in Table 3, the District's Capital Improvement Reserve as of June 30, 2021 is estimated to be \$20.3 million.

Table 3

Cash Balance Actual 06/30/2021	Amount
Emergency and Contingency Reserve	\$ 10,000,000
Working Capital Reserve	10,000,000
Surplus Supplemental Water	4,595,222
Water Rebate	1,571,006
Capital Improvement Reserve	20,346,496
Total Cash Balance	46,512,724

Based on budget projections through Fiscal Year 2027, and assuming no changes are made to the rate structure (aside from the potential pass-through increased costs/inflation), the Capital Improvement Reserve at June 30, 2027 would be just over \$4 million; see Table 4 below.

Table 4

Capital Improvement Reserve 06/30/21	\$ 20,346,496
Budget Projection to Fiscal Year 2027	(16,262,819)
Remaining Capital Improvement Reserve	4,083,678

Capital Improvement Reserve- The water industry has many long-lived assets; for example, reservoirs have an estimated life of 80 years. While the lives are very long, the initial construction and replacement costs of these assets are high. Large projects cannot reasonably be funded from a single year of customer revenue collection; instead, revenue is collected in smaller amounts over time and held in reserves until the project is ready to be built. Without sufficient reserves, the District would have to finance future large projects and charge customers after the fact at a much higher rate due to the cost of financing, including interest. It is in the best interest of the customers to have capital reserves to help keep costs capital project costs low, when feasible.

The Capital Improvement Reserve does not have a Board established minimum balance. To arrive at a minimum balance to maintain in this account at the end of the five-year rate setting period, a one year value of the District's system depreciation, adjusted for inflation, was calculated using the "Engineering News Record" which maintains a Construction Cost Index (Index). This Index, which contains construction and building components, is used to adjust the District's historical Fixed Assets value to current costs; any material assets not in the District's asset database (existed prior to the maintenance of fixed asset records) were included in the District's Capital Projects list and those values were used.

Using the District's current estimated asset lives, the annual cost of the District's system and assets were calculated at approximately \$13.2 million (see Attachment G, Capital Assets Current Value). Collecting revenue using the current water rate structure will result in the Capital Reserve being depleted to a level that will not sustain Pay-go (cash) funding of planned capital projects beyond Fiscal Year 2027, such as rehabilitation of the Warner wellfield and replacement of the 100-year old Vista Flume. Borrowing to fund some of the projects would also require a higher reserve since debt financing requires a debt service reserve be set aside in addition to the monthly payments (including interest). If rates are not adjusted, the resulting shortfall by the end of Fiscal Year 2027 would be approximately \$9.1 million, as shown in Table 5.

Table 5

Remaining Capital Improvement Reserve	\$ 4,083,678
Targeted Capital Reserve	13,230,783
Short Fall by Fiscal Year End 2027	(9,147,105)

# **Water Rate Recommendations**

As discussed, budget projections through Fiscal Year 2027 will result in the Capital Improvement Reserve being insufficient to meet future annual capital spending needs. In order to minimize water rate increases, staff recommends utilizing a portion of the current Capital Improvement Reserve Balance (about \$7 million) to fund capital projects through Fiscal Year 2027, leaving the Capital Improvement Reserve with a balance of \$13.2 million. While there are several additional pressures (e.g., availability of local water that could result in the

purchase of higher cost wholesale water, Vista Flume Replacement Project costs, etc.) that could require a greater rate increases, staff recommends that reserves be used to help keep water rates as low as possible.

The District's rate structure is comprised of three separate charges, Emergency Water Storage Fee, Service Charge and Water Usage Charge.

# **Emergency Water Storage Fee**

The Emergency Water Storage Fee (also known as the Infrastructure Access Charge) is a direct cost to the District from the Water Authority and is passed through to District customers. It is recommended that the District continue to pass-through any changes to this fee from the Water Authority to its customers.

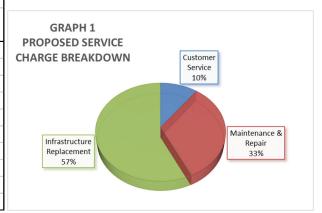
# Service Charge

The service charge recovers the District's customer service, repairs and maintenance and the majority of the infrastructure replacement costs, which exists regardless of the amount of water pumped and delivered. These costs continue without regard to the amount of water that a customer uses and are sometimes called "readiness-to-serve" charges. The largest component of the service charge recovers the cost of replacing the District's aging water system infrastructure.

The Board previously approved changes to the service charge, once a year on July 1, to cover inflation on the District's costs (excluding purchased water). In July 1, 2020, the Board elected to forgo the inflationary adjustment due to the impacts of the COVID-19 pandemic; it is recommended that the District increase the service charge at this time to generate sufficient revenue to cover the expense categories described in the previous paragraph. Additionally, it is recommended that, pursuant to Government Code § 53756, the Board approve the pass-through of an inflationary adjustment on July 1 each year for the next five years; since the proposed adjustment to the service charge will generate sufficient revenue through Fiscal Year 2023, the first pass-through inflationary adjustment would be implemented on July 1, 2023. Table 6 illustrates current and proposed service charges; Graph 1 shows the expense categories paid for by revenue generated from the proposed Service Charge.

Table 6

Service Charges				
	Curre	ntly Monthly	Propo	sed Monthly
Meter Size		Charge	Charge	
5/8	\$	31.75	\$	32.82
3/4 & 3/4 1		41.88		43.30
1		61.89		63.98
1.5		112.34		116.14
2		172.66		178.50
3		333.57		344.85
4		514.49		531.89
6		1,218.45		1,259.65
8		1,620.90		1,675.71
10		2,425.46		2,507.47



# Water Usage Charges

Water usage charges recover per acre-foot charges from the Water Authority, costs related to the District's local water supply located at Lake Henshaw, costs of treating raw water as well as a portion of transmission and distribution and other costs associated with flow and the engineering of flow. The Tier 2 marginal rate

above the Tier 1 rate recovers the cost of conservation, storage expansion, wellfield improvements and some costs associated with the start of the Vista Flume Replacement project.

Water Rate Structure - The District's current water rate structure is made up of a three tiers based on meter size and hydraulic capacity that can be applied to all customer classes regardless of how the water is being used. In 2009, the Tier 1 allotment was set at 50% of average monthly water use for the most common meter size in the District (3/4-inch) and hydraulic capacity, based on meter size, was used to calculate tier allotments for smaller and larger meters. The 50% usage was used to split the usage between Tiers 1 and 2 with Tier 3 added to cover the cost of penalties assessed by the Water Authority should the District exceed its allocation during mandatory water use reductions imposed by the State of California.

To set the new tiers, staff recalculated the average monthly water use for a 3/4-inch meter using Fiscal Year 2019 billing data. The 3/4-inch meter size represents 59% of all meters in use. Fiscal Year 2019 was selected because water sales that year are similar to the projected sales for Fiscal Year 2022. Additionally, Fiscal Year 2019 was prior to the COVID-19 pandemic, which caused unusual activity as many businesses were closed, and most customers were at home.

The analysis showed the average monthly use for a 3/4-inch was 12 units, which is down from 20 units calculated during the adoption of the 2009 water rates. Based on the updated data, staff recommends adjusting the Tier 1 allotment for a 3/4-inch meter to six units (12 units x 50%) and using the hydraulic capacity of other meter sizes to determine their Tier 1 allotments. Table 7 shows the proposed Tier 1 allotments for all meter sizes. Table 8 shows the allotment for all the Tiers (Tier 2's upper allotment limit did not change, Tier 3's allotment did not change). Table 9 shows the distribution of water sales (in acre-feet) between Tier 1 and Tier 2 based on the current and proposed tiered rate structures.

Table 7

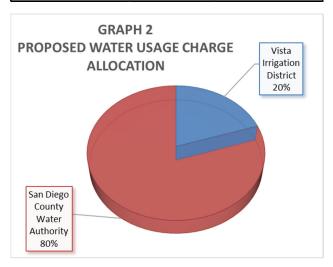
Meter	<b>Current Tier</b>	<b>Proposed Tier</b>	
Size	1 Allotment	1 Allotment	Difference
5/8	7	4	3
5/8 3/4	10	6	4
1	25	15	10
1 1/2	50	30	20
2	80	48	32
3	160	96	64
4	250	150	100
6	500	300	200
8	800	480	320
10	1,150	690	460

Table 8

<b>Proposed Monthly Water Allotments by Tier</b>					
Meter	Tier 1	Tier 2	Tier 3		
Size	Allotment	Allotment	Allotment		
5/8"	0-4	5-42	43+		
3/4"	0-6	7-60	61+		
1"	0-15	16-150	151+		
1 1/2"	0-30	31-300	301+		
2"	0-48	49-480	481+		
3"	0-96	97-960	961+		
4"	0-150	151-1,500	1,501+		
6"	0-300	301-3,000	3,001+		
8"	0-480	481-4,800	4,801+		
10"	0-690	691-6,900	6,901+		

Table 9

Tubic 3		
	Current State	Proposed New Tier 1 Allotment
Water Sales Billed	Acre Feet	Acre Feet
Tier 1	8,354	5,012
Tier 2	6,751	10,093
Tier 3	695	695
Total	15,800	15,800



As illustrated in Graph 2, approximately 20 percent of the revenue generated by water usage charges is utilized by the District to cover operating and maintenance expenses; the remaining 80 percent is used to pay the Water Authority for water purchases.

The Water Authority is responsible for supplying water to 24 member agencies within San Diego County. Not simply a water provider, the Water Authority is also responsible for the construction and maintenance of regional storage, delivery and treatment infrastructure necessary to ensure the reliable delivery of water to local water agencies like Vista Irrigation District.

**Tier 1 Water**- The Tier 1 rate is equal to the cost of water purchased as well as producing local water plus costs of transmission and distribution, water treatment, tanks and reservoirs, engineering and other costs associated with flow not allocated to the service charge as maintenance and repairs. The Tier 1 rate was calculated by removing the Tier 2 marginal cost (detailed in Table 10) from budget projections through Fiscal Year 2027 and adding in the proposed service charge adjustment. The Tier 1 rate was calculated to be \$4.60 per unit. Staff recommends the Tier 1 rate be changed from \$4.44 to \$4.60. (NOTE: This increase only covers the District's shortfall and does not include the Water Authority's new pass-through increase or the rebate as seen in Table 13.)

Tier 2 Water - The Tier 2 rate equals the Tier 1 rate plus Tier 2 marginal rate. The portion that is Tier 1 covers the same costs outlined in the section describing Tier 1. The Tier 2 marginal rate is used to cover costs associated with above average usage and conservation; those costs include expanding of reservoir storage, improvement of the wellfield to increase local water production and preparations associated with the replacement of the aging Vista Flume. If water usage was below average, these projects may not be needed or could be replaced by a different type of project. The Tier 2 marginal rate was calculated by taking the cost of the projects specific to the Tier 2 marginal rate and dividing it by the amount of expected Tier 2 billings (based on 2019 actual billings as previously noted). Staff recommends the Tier 2 rate be changed from \$4.98 to \$5.07. (NOTE: This increase only covers the District's shortfall and does not include the Water Authority's new pass-through increase or the rebate as seen in Table 13.)

Table 10

Description	<b>Annual Cost</b>
Wells	\$ 621,449
Flume	1,064,160
Pechstein II New	300,000
Tier 2 Marginal Capital	1,985,609
Conservation	235,854
Total Tier 2 Marginal Amount	\$ 2,221,463
5	4 600 252
Expected Units Sold Tier 2	4,699,253
Tier 2 Marginal Rate	\$ 0.47
Tier 1 Rate	4.60
Total Proposed Tier 2 Rate	\$ 5.07

#### **Tier 2 Marginal Rate Capital Projects**

The District's largest reservoir, Pechstein Reservoir, is in need of a new roof and other improvements; however, Pechstein Reservoir is critical to the District's system operations and cannot be taken out of service without alternative storage to meet peak system demands; construction of the Pechstein II Reservoir is needed before the Pechstein Reservoir can be taken out of service. Above average demand is associated with the need for additional storage, especially during a Water Authority shutdown or emergency event.

Local water from Lake Henshaw provides the District with a lower cost water supply and serves as a diversification of it water resources. The current wellfield, which is reaching the end of its useful life, needs to be rehabilitated/improved to increase production. By rehabilitating existing wells and constructing new ones, local water production could be increased to meet higher demands without purchasing additional water from the Water Authority (see Attachment H, Executive Summary from the Warner Valley Basin Groundwater Flow Model Development and Calibration prepared by Todd Groundwater and Dudek).

The District maintains capacity rights from two sources, raw water treated at the Escondido-Vista Water Treatment Plant (EVWTP) located at Lake Dixon and multiple treated water connections along the Water Authority's aqueducts. To reduce costs, the District typically maximizes the locally treated water supply at EVWTP and relies on the 11-mile Vista Flume to convey it to the District's service area.

The Vista Flume was constructed between 1925 and 1927 and is built through rugged hillside country and snakes through rolling hills and valleys, through avocado groves and residences for 11 miles. In 1947, after 20 years in service, a repair and maintenance program began and seven miles of open bench sections were covered with a reinforced concrete arched cover. The Flume received another upgrade in the late 1990s when the District installed a high-density polyethylene (HDPE) sheet lining system. In 2010, an HDPE pipeline was inserted within a half-mile section. Now after all these years, the Flume is approaching its useful life.

In March 2020, the District prepared a Water Supply Planning Study (WSPS) with the help of Gillingham Water Planning and Engineering, Inc. to evaluate whether the Flume should be replaced or retired and what other water supply alternatives exist. The WSPS weighed a number of factors when comparing the two options including costs, reliability, water quality, environmental protection, existing water supply obligations and assets. As of now, during a planned 10-day shutdown along the Second Aqueduct, the District is dependent on the Vista Flume.

The WSPS estimated the cost to replace the Vista Flume between \$120 to \$130 million; after much discussion, the Board decided that the preferred project was to replace the Flume (see Attachment I Water Supply Planning Study). District reserves are not sufficient to pay for such a large and costly project; therefore, the District would need to build sufficient reserves to cover the debt service ratio before financing would be able to be obtained and construction could begin. If we assume financing of \$60 million and a debt reserve ratio of 2.0, the reserve for debt would need to be approximately \$5.3 million. If the District had decided not to replace the Vista Flume, the District would have needed to construct new storage reservoirs and other related capital projects to ensure the water system could be operated during a water shutdown or emergency event. If demand was below average, the replacement of the Vista Flume may be too costly and alternative projects to meet system operations and demands, such as storage, may be constructed at a smaller scale.

Large capital improvement projects are complex and can take years to complete. The District has begun planning efforts to replace the Vista Flume, including the preparation of an alignment study and financial planning.

The District's water conservation program primarily focuses on assisting residents and businesses with using water efficiently, thus reducing demands. Much of the District's conservation efforts center on public outreach and education as well as incentives for devices. However, at times, it is necessary to investigate and cite water users (consistent with the District's Water Supply Response Program) that use water inefficiently (e.g. irrigation run-off, not repair a leak promptly, etc.). These activities resource intensive and may not be needed if large water consumers used water efficiently.

**Tier 3 Water** – The Tier 3 water rate is implemented when penalties may be assessed by the Water Authority in the event that the District exceeds its allocation during mandatory water use reductions. Staff recommends continuing to charge Tier 3 at Tier 2 rates when no mandatory cutbacks are in place.

# Budget Projections through Fiscal Year 2027 after Proposed District Rate Increases

If the Board approves staff's recommendations, at the end of Fiscal Year 2027 Capital Reserves are estimated to be about \$13.5 million (see Table 11). Attachment J, Budget Projections through Fiscal Year 2027 after Proposed Rate Increases, shows the updated budget projections with the proposed service charge increase and the changes to the Tier 1 and Tier 2 water rates. The portion of the rate that represents the Water Authority increase and the rebate (credit) is not included in Attachment J (in revenue or expense) since those amounts are passed-through to District customers.

Table 11

	Cash Balance Actual 06/30/2021	Expected Cash Balance 06/30/2027
	Amount	Amount
Emergency and Contingency Reserve	\$ 10,000,000	\$ 10,000,000
Working Capital Reserve	10,000,000	10,000,000
Surplus Water Pass-through	4,595,222	4,595,222
Water Rebate (5 years 2022-2026)	1,571,006	
Capital Improvement Reserve	20,346,496	13,545,982
Total Cash Balance	46,512,724	38,141,204

# Water Rate Increases all Sources

San Diego County Water Authority Increase Pass-through - The Water Authority has provided information related to their January 1, 2022 increases to purchased water that the District would include on billings to customers on and after April 1, 2022 (should the Rate Adjustment Policy be continued as recommended). Most customer bills cover two months in arrears, so water usage in February and March 2022 would be billed in April 2022. This year the Water Authority pass-through increase is 20 cents per unit of water (see Attachment K, Water Authority Pass-Through Calculation). The pass-through increases in revenue and expense are not in the projections in this document because one offsets the other. Pursuant to Government Code § 53756, the District shall continue the practice of automatically passing through all Water Authority fees and charges for wholesale water and water related services to District customers for the five year period following adoption of the new fee schedule.

**Rebate** - The Water Authority received a \$44.4 million rebate from the Metropolitan Water District of Southern California (Metropolitan). On February 25, 2021, the Water Authority's Board of Directors announced a plan to distribute the rebate to its 24 member agencies. The District's pro-rata share of the rebate was \$1,570,006; funds were received in April 2021.

The rebate was the result of decade-long rate case litigation between the Water Authority and the Metropolitan; The Water Authority won on several critical issues in the cases covering 2011 to 2014 and was deemed the prevailing party; as such, The Water Authority was owed legal fees and charges in additional to the damages and

interest payments. The payment by Metropolitan was a damages award for Water Stewardship Charges that had been unlawfully assessed by Metropolitan on the Water Authority's independent water supplies transported through Metropolitan facilities from 2011 through 2014.

On October 28, 2021 the Water Authority's Board approved an additional \$35.9 million rebate for damages and interest from the Metropolitan Water District of California for breach of the parties' Exchange Agreement for years 2015-2017 by charging a Water Stewardship Rate, to be disbursed to the member agencies. The District's pro-rata share of the additional rebate is \$1,227,643.

The District has elected to use the rebate to offset the Water Authority rate increases over the next five years beginning February 1, 2022, lessening the impact of future Water Authority pass-through rate increases. The rebate amount starting February 1, 2022 is eight cents, lowering the Water Authority's projected pass-through increase from 20 cents to 12 cents per unit of water consumed.

**Final Increases All Sources** - Table 12 shows the total proposed increase to commodity rates by source; Table 13 (identical to Table 6) shows the proposed increase to the service charge by meter size.

The "AG Domestic" rate is a flat rate paid by customers that have a residence on a property that participates the Water Authority's Special Agricultural Water Rate program; this is not a discounted rate. Customers participating in the Water Authority's Special Agricultural Water Rate program (shown as "SAWR AG" in the table) pay a water rate (on water used for agricultural purposes) that reflects a reduced level of service and supply reliability; program participants are the first to be cutback in the event of drought or other water shortages.

Table 12

	Current	Vista Irrigation		San Diego County Water	Rebate credit applied to Pass-	Proposed
	Rates	District	New Rate	<b>Authority Pass</b>	through	Total Per
	Per Unit	Increase	Calculated	through	Increase	Unit
Tier 1	\$4.44	\$0.16	\$4.60	\$0.20	-\$0.08	\$4.72
Tier 2/3	4.98	0.09	5.07	0.20	-0.08	5.19
AG Domestic	4.76	0.15	4.91	0.20	-0.08	5.03
SAWR AG Rate	3.91					4.10
Emergency Storage Fee*	4.24					4.24
*Charge per equivalent m	eter. Part c	of Pass-throu	gh charges.			

Table 13

Service Charges			
	Curre	ently Monthly	<b>Proposed Monthly</b>
Meter Size		Charge	Charge
5/8	\$	31.75	\$ 32.82
3/4 & 3/4 1		41.88	43.30
1		61.89	63.98
1.5		112.34	116.14
2		172.66	178.50
3		333.57	344.85
4		514.49	531.89
6		1,218.45	1,259.65
8		1,620.90	1,675.71
10		2,425.46	2,507.47

# **Attachment A**

Vista Irrigation District
CAPITAL PROJECTS
Projects for Fiscal Years 2022 to 2050

to for a to continue	Allerededler	Current Year	FW 2022	EV 2022	EV 2024	EV 2025	FV 2026	EV 2027
Infrastructure	Allocated by	Base Cost*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
E. Reservoir Replacement/Upsize/Pump Station	Tier 1 Rate	11,500,000	3,000,000	2,842,878	4,007,582	2,209,565	-	-
Main Replacement Program	Tier 1 Rate	50,000,000	2,500,000	2,584,435	2,671,721	2,761,956	2,855,238	2,951,670
Vista Flume Rehabilitation	Tier 2 Rate	120,000,000	750,000	723,642	-	-	-	-
Paseo Santa Fe Project	Tier 1 Rate	428,611	225,000	-	-	-	-	-
Well Field Repair/Replacement (65%), Siphon reha		6,956,076	200,000	516,887	-	-	-	-
Deodar Reservoir	Tier 1 Rate	1,350,000	135,000	51,689	336,637	939,065	-	-
Calle Maria Pipeline Extension	Tier 1 Rate	200,000	100,000	103,377	-	-	-	-
Pechstein II Reservoir	Tier 2 Rate	9,000,000	-	465,198	480,910	1,789,747	3,700,388	3,825,365
A Reservoir	Tier 1 Rate	5,000,000	-	258,443	267,172	994,304	2,055,771	2,125,203
Pechstein Rehabilitation Roof	Tier 1 Rate	14,100,000	-	-	-	-	799,467	826,468
Pechstein Reservoir Secondary Feed	Tier 1 Rate	5,100,000	-	-	-	-	-	-
CO SD, S. Santa Fe Ave - Widening Project	Tier 1 Rate	4,110,549	-	-	-	-	-	-
San Marcos, S. Santa Fe Wide - Smilax to Bostick	Tier 1 Rate	256,909	-	-	-	-	-	-
Robelini/Buena Creek Pipeline	Tier 1 Rate	3,773,638	-	-	-	-	-	-
Valve Rehab on Dam Outlet	Tier 1 Rate	220,942	-	-	-	-	-	-
Santa Fe - Civic to Postal	Tier 1 Rate	940,000	-	-	-	-	-	-
HB Pipeline	Tier 1 Rate	872,314	-	-	-	-	-	-
H Line Aband Pechstein to E Reservoir	Tier 1 Rate	719,346	-	-	-	-	-	-
900 Zone Feed Regulator and Pipe	Tier 1 Rate	600,000	-	-	-	-	-	-
Habitat Conservation Plan	Tier 1 Rate	544,648	-	-	-	-	-	-
637 Zone Feed Vault and Regulator	Tier 1 Rate	300,000	-	-	-	-	-	-
C Reservoir Demo and PRV Feed Upgrade	Tier 1 Rate	800,000	-	-	-	-	-	-
E-1 Reservoir Demo-565 Zone PRV	Tier 1 Rate	1,800,000	-	-	-	-	-	-
Total Infrastructure		238,573,033	6,910,000	7,546,550	7,764,022	8,694,637	9,410,864	9,728,705
Non Infrastructure	Tier 1 Rate	16,076,085	519,000	549,306	567,858	587,037	606,864	627,360
San Pasqual Undergrounding (50%)	Tier 1 Rate	25,051,715	8,000,000	17,162,420	-	-	-	-
Total		279,700,833	15,429,000	25,258,275	8,331,880	9,281,674	10,017,727	10,356,065

<sup>\*</sup>Current Year Base Cost represents the current cost of identified projects to be completed sometime before Fiscal Year 2050. The values starting in Fiscal Year 2023 are adusted for inflation (projected to be 3.38%). Fiscal Years 2028 to 2050 are not shown in detail on this Attachment since this rate increase is designed to only cover capital expenses through Fiscal Year 2027.

# **Attachment B**

# Current Budget Projection to Fiscal Year 2027 (includes usual CPI rate increases on Service Fee July 1)

Budget FY22		
Local Water	3,115	18.5%
Purchased Water	13,685	81.5%
Total Budgeted Water Supply	16,800	

	C	urrrent State			
Water Sales Billed (Avg FY17-FY20 rounded)		Acre Feet	Units	Rate 03/1/21	Amount
Tier 1	53%	8,354	3,639,002	\$4.44 \$	16,157,171
Tier 2/3	47%	7,446	3,243,478	\$4.98	16,152,518
Total	_	15,800	6,882,480		32,309,689

Service Charge (Connections Actual FY21)	Current State		
	Count	Monthly Charge	Annual
5/8	6,832	\$ 31.75	\$ 2,602,992
3/4 & 3/4 1	17,000	41.88	8,543,520
1	2,880	61.89	2,138,918
1.5	1,318	112.34	1,776,769
2	883	172.66	1,829,505
3	55	333.57	220,156
4	23	514.49	141,999
6	13	1,218.45	190,078
8	2	1,620.90	38,902
10	1	2,425.46	29,106
	29,007	•	17,511,946

		Budget	Projected	Projected	Projected	Projected	Projected	Total
Financial		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	
Revenue Water Sales/Emergency Storage Fee	66%	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	
Revenue Service Fee	34%	17,500,000	17,957,533	18,491,583	19,107,992	19,744,948	20,403,137	
Revenue All Others		3,241,900	3,473,430	3,548,193	3,635,110	3,724,309	3,815,850	
Revenue Total		54,862,900	55,551,962	56,160,776	56,864,101	57,590,257	58,339,987	
Expenses less Depreciation		44,682,700	45,186,674	45,783,333	46,466,237	47,098,503	47,740,734	
Net		10,180,200	10,365,288	10,377,443	10,397,865	10,491,754	10,599,253	
Captial Projects		15,429,000	25,258,275	8,331,880	9,281,674	10,017,727	10,356,065	
Contribution to or (Use of) Capital Improvement								
Reserves		(5,248,800)	(14,892,987)	2,045,563	1,116,191	474,027	243,188	(16,262,8

	Cash Balance Actual 06/30/2021		pected Cash Balance 06/30/2027
Cash Balance Actual 06/30/2021	Amount		Amount
Emergency and Contingency Reserve	\$ 10,000,000	\$	10,000,000
Working Capital Reserve	10,000,000		10,000,000
Surplus Supplemental Water	4,595,222		4,595,222
Water Rebate	1,571,006		
Capital Improvement Reserve	20,346,496		4,083,678
Total Cash Balance	46,512,724		28,678,900

# **Attachment C**

**Four Reservoirs Board Report** 



# **STAFF REPORT**

Agenda Item: 9

Board Meeting Date: November 18, 2020
Prepared By: Greg Keppler
Reviewed By: Randy Whitmann
Approved By: Brett Hodgkiss

<u>SUBJECT</u>: FOUR RESERVOIRS SEISMIC/STRUCTURAL ANALYSIS AND RESERVOIR IMPROVEMENT PLANS

<u>RECOMMENDATIONS</u>: Receive informational report on the primary findings and recommendations from the Four Reservoirs Seismic/Structural Analysis and an update on the District's near-term reservoir improvement plans.

<u>PRIOR BOARD ACTION</u>: On March 4, 2020, the Board authorized the General Manager to enter into an Agreement for Professional Services with Murray Smith for the Four Reservoirs Seismic and Structural Analysis project in an amount not-to-exceed \$175,739.

<u>FISCAL IMPACT</u>: Planning level rehabilitation, replacement, or demolition construction costs are estimated to be \$12.95 million in today's dollars for the recommended alternatives in the Four Reservoirs Seismic/Structural Analysis, which includes the Virginia Place (A), Summit Trail (C), Cabrillo Circle (E-1), and Deodar reservoirs. The District's estimated total construction costs for near-term improvements (within ten years) to system storage are estimated to range between \$47.55 million - \$55.75 million in today's dollars (see table below).

Storage Project	<b>Estimated Cost</b>
Edgehill (E) Reservoir Replacement (increase from 1.5 million gallon [mg] to 2.9 mg) and New Pump Station	\$11.50 million
Deodar Reservoir Rehabilitation (1.0 mg)	\$ 1.35 million
New Pechstein II Reservoir (5.0 - 10.0 mg)	\$9.0 million – \$17.20 million
Pechstein I Reservoir Rehabilitation (20.0 mg)	\$14.10 million
Virginia Place (A) Reservoir Replacement (increase from 0.8 mg to 3.0 mg)	\$ 9.0 million
Summit Trail (C) Reservoir Demolition (0.8 mg) and Pressure Regulator Upgrades	\$ 0.80 million
Cabrillo Circle (E-1) Reservoir Demolition (0.6 mg) and New Pressure Regulator Feed	\$ 1.80 million
Total	\$47.55 million - \$55.75 million

<u>SUMMARY</u>: In 2018, the District completed a Water Master Plan (Master Plan) which included a cursory inspection and preliminary condition assessment of all the reservoirs and developed a priority ranking matrix to assist the District in proceeding with further investigations to implement future reservoir improvement and upgrade projects. Since the Master Plan, projects for the highest ranked reservoirs are underway including:

- Rehabilitation of the Buena Creek (HB) Reservoir is currently under construction and expected to be completed by early 2021.
- Design of the Edgehill (E) Reservoir is nearly complete and will be ready for construction by early 2021.
- A seismic/structural analysis and roof rehabilitation/replacement alternatives evaluation have been completed for the Pechstein Reservoir. Temporary short-term repairs to the glulam roof beams are underway and full roof replacement is planned following construction of a new Pechstein II Reservoir.

In addition to the above, Murray Smith has completed a seismic/structural analysis for the Virginia Place (A), Summit Trail (C), Cabrillo Circle (E-1) and Deodar reservoirs, including an evaluation of rehabilitation, replacement and/or demolition alternatives and recommendations for each reservoir. The results of this study are presented below and have assisted District staff in determining the priority and timing of near-term reservoir improvements.

<u>DETAILED REPORT</u>: Virginia Place (A), Summit Trail (C) and Cabrillo Circle (E-1) are all cast-in-place, reinforced concrete reservoirs constructed in the 1920s and are nearly identical in design. Deodar Reservoir is a pre-stressed concrete reservoir, very similar in design to Pechstein Reservoir, constructed in 1978. All reservoirs have a timber framed wood or corrugated metal roof. Based on the preliminary condition assessment in the Master Plan, the possibility of roof retrofits or replacements were identified as was the possibility of needing full reservoir replacement under a worst-case scenario; seismic and structural evaluations were recommended as the next step.

Murray Smith performed the following tasks for the study:

- Conducted interior and exterior inspections at each reservoir to assess overall condition.
- Performed geophysical surveys to ascertain subsurface soil conditions and current seismic design parameters.
- Reviewed original plans of the existing reservoirs to understand design parameters.
- Structurally analyzed and performed building code assessments to determine structural deficiencies.
- Provided rehabilitation requirements to address condition and structural deficiencies.
- Compared rehabilitation needs to building a new reservoir.
- Evaluated operational storage needs based on the Master Plan and developed alternative projects (e.g., construct larger reservoir or decommission reservoir without replacement).

The key findings and results are as follows:

# **Inspection Findings**

<u>Virginia Place (A), Summit Trail (C) and Cabrillo Circle (E-1) reservoirs</u> — The exterior roof top surfaces are in poor to fair condition, while the underside roof framing and sheathing are in serious to poor condition. An assessment on the interior wall, floor slab, and columns were not possible with the reservoirs having urethane/epoxy coatings. The exterior walls are generally in fair condition, although full height vertical cracks are present at various locations.

<u>Deodar Reservoir</u> – Similar to the findings from inspecting the Pechstein Reservoir in 2018, portions of the roof are in serious condition from dry rot occurring from the outside exterior of the valley glulam beams. The interior wall, floor slab, and columns are generally in good condition, and the exterior walls are in fair condition. Hammer testing the exterior gunite identified multiple hollow sounding areas around the reservoir, which the consultant believes to be minor delamination in the gunite material that has not progressed to the circumferential pre-stressed wire wrapping (in which case corrosion would be a concern). The latter typically results in more pronounced delamination and hollow sounds when struck with a hammer.

#### **Seismic/Structural Evaluation**

<u>Virginia Place (A), Summit Trail (C) and Cabrillo Circle (E-1) reservoirs</u> – The roof girders and vertical wall reinforcing are substantially overstressed for normal gravity and hydrostatic loading per current design standards. With additional hydrodynamic loading during a design level earthquake, the circumferential wall reinforcing would also become overstressed. Additionally, the reservoir roof design is inadequate to resist and transfer seismic loading, making it susceptible to damage and partial or total collapse. These seismic deficiencies would transfer down the walls, columns and connecting foundation elements and damage and partial collapse of the reservoir would be likely.

<u>Deodar Reservoir</u> – The circumferential pre-stressed wire wrapping is slightly under-designed for normal gravity and hydrostatic loading per current design standards when evaluated with the reservoir completely full at the overflow elevation (water level at 30 feet). This deficiency is eliminated when the operational water level is reduced to a maximum of 26 feet (note the District's typical operating high-water elevation is 23 feet). Under additional hydrodynamic loading during a design level earthquake, the roof design is inadequate to resist and transfer the seismic loading, making it susceptible to damage and partial or total collapse. The remaining reservoir elements meet current seismic standards with a maximum operating water level of 26 feet.

#### **Reservoir Alternatives and Costs**

As indicated in the inspection and seismic/structural evaluation, the improvements required for the Deador Reservoir are minimal and only a new roof is recommended. However, the improvements required to rehabilitate the Virginia Place (A), Summit Trail (C) and Cabrillo Circle (E-1) reservoirs are extensive and would require full roof/column replacement and wall/base slab strengthening. The planning level estimated cost per reservoir for rehabilitation is \$3.9 million, slightly less expensive than an estimated full replacement cost of \$4.1 million (for a same sized reservoir). Alternative projects are proposed for these reservoirs based on a review of system storage needs.

The District's storage requirements for the entire system and per pressure zone are dependent on the large, high-elevation storage reservoirs (herein referred to as "regional storage") including Pechstein, Buena Creek (HB) and Edgehill (HP). From the analysis in the Master Plan, there is only a 4 mg system-wide deficit at build-out (which would be met by Pechstein II). However, many individual pressure zones have deficits and therefore rely on regional storage. This works when there is adequate conveyance capacity to deliver peak flows from the regional reservoir to the lower zone. If there is not adequate capacity, the lower zones become more dependent on closer, lower-elevation reservoirs (herein referred to as "local storage"). Based on this concept and hydraulic analyses performed by staff for this study, the alternates developed include expansion of the Virginia Place (A) Reservoir and decommissioning the Summit Trail (C) and Cabrillo Circle (E-1) reservoirs without replacement.

The recommended projects for each reservoir are summarized below:

<u>Virginia Place (A) Reservoir</u> – This 0.8 mg reservoir provides local storage to the 707 Pressure Zone and is subject to significant water level fluctuations due to demand peaking and the existing lack of regional storage support (future pipeline upgrades to the area would be required). With the current dependence on local storage in this pressure zone, it is desired to increase the existing 0.8 mg storage volume. The existing site and surrounding same-elevation parcels were evaluated for the ability to construct a new, larger reservoir. Of the many alternatives evaluated, the following project is recommended:

• Replace the existing reservoir with a 3.0 mg circular pre-stressed concrete reservoir on a combined parcel consisting of the existing District-owned site and an acquired adjacent parcel to the north and east. The planning level estimate for this improvement is \$9.0 million including property acquisition costs. Should the adjacent parcel not be available for purchase, it is estimated that a new 1.1 mg reservoir can be constructed on the existing site with an estimated cost of \$4.9 million.

<u>Summit Trail (C) Reservoir</u> – This 0.8 mg reservoir provides local storage for the 637 Pressure Zone and has significant support from regional storage; hydraulic modeling indicates this pressure zone can operate without a reservoir. The following project is recommended:

• Decommission and demolish the existing reservoir without replacement. Prior to decommissioning, upgrade the existing pressure regulator feed to the reservoir to increase capacities for peak flows. The planning level estimate for this project is approximately \$800,000. Construction of a third pressure regulator feed to this zone, as recommended in the Master Plan, to increase supply reliability should also be made prior to decommissioning the reservoir.

<u>Cabrillo Circle (E-1) Reservoir</u> – This 0.6 mg reservoir along with the 3.1 mg San Luis Rey Reservoir provides local storage for the 565 Pressure Zone and they have significant support from regional storage; hydraulic modeling indicates this pressure zone can operate with only the San Luis Rey Reservoir in service. The following project is recommended:

• Decommission and demolish the existing reservoir without replacement. Prior to decommissioning and to increase supply reliability, install another pressure regulator feed to the pressure zone near the San Luis Rey Reservoir including approximately 2,000 feet of new transmission main. The planning level estimate for this project is approximately \$1.8 million.

<u>Deodar Reservoir</u> – Replace the existing roof with an aluminum dome roof. Planning level roof replacement and other needed improvements are estimated to be \$1.35 million.

#### **Schedule**

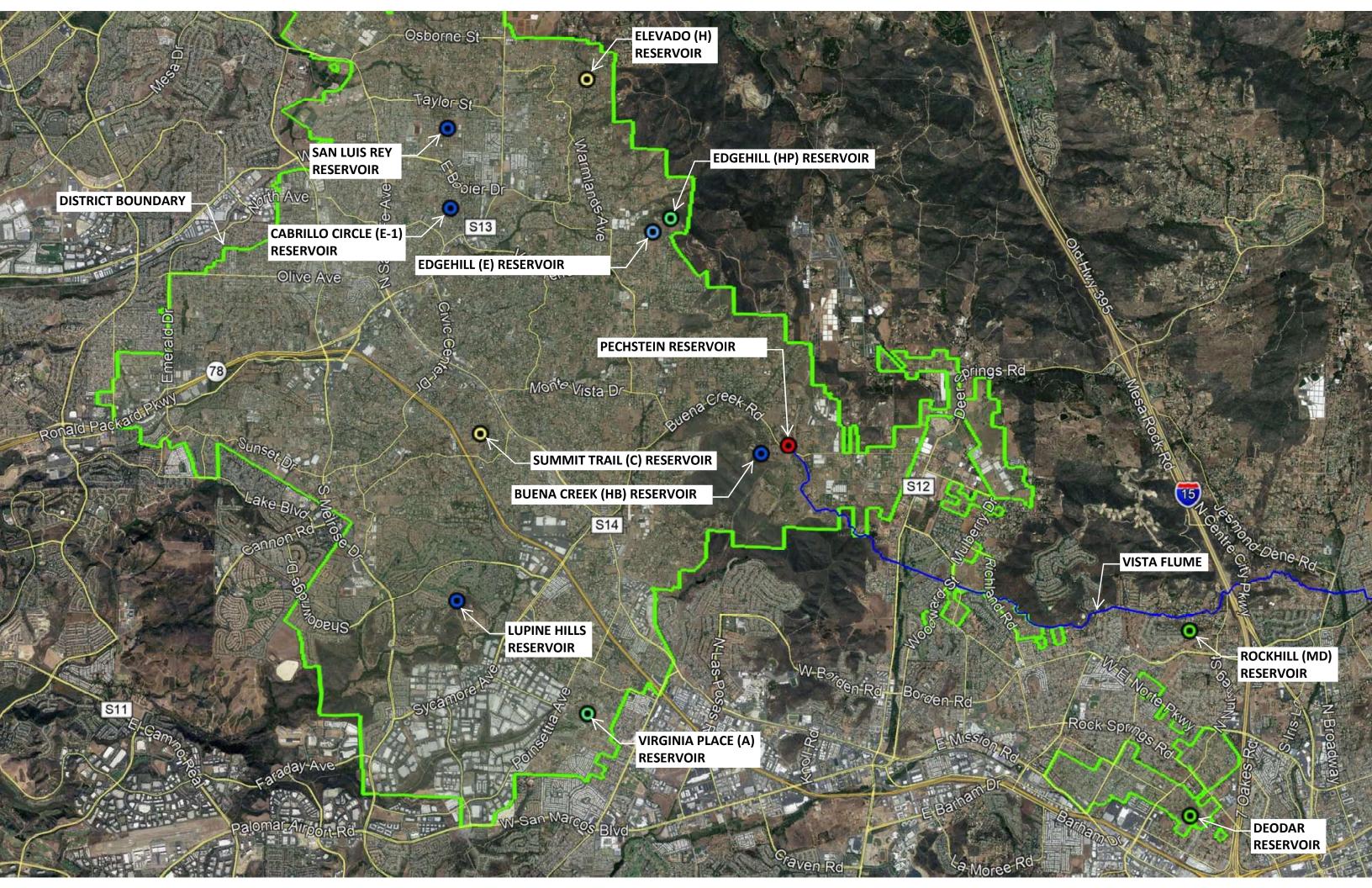
The proposed project schedule below was developed by Murray Smith; it contemplates completing all of the District's near-term reservoir projects using a phased approach based on the various factors, including inspection findings, documented deficiencies, project prioritization, and input from staff regarding engineering and operational constraints. The District's scheduling of these projects in a future fiscal year will largely depend on the availability of financial and staff resources; staff is currently updating its long-term capital project summary to determine timing and funding recommendations.

Reservoir	FY* 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031
E	2022	2020	2021	2023	2020	2021	2020	202)	2000	2001
Deodar										
Pechstein II										
A										
Pechstein I										
С										
E-1										

<sup>\*</sup>FY – Fiscal Year

# <u>ATTACHMENTS</u>:

- Reservoir Summary Map
- ➤ Aerial Vicinity Maps
- Murray Smith Visual Condition Assessment
- ➤ Virginia Place (A) Reservoir Replacement Alternatives



Virginia Place (A) Reservoir



Summit Trail (C) Reservoir



Cabrillo Circle (E-1) Reservoir



**Deodar Reservoir** 



# 4 VISUAL CONDITION ASSESSMENT

PSE, Murraysmith, and Group Delta performed site visits to observe the current as-built condition of the interior, exterior, and surrounding sites of A, C, E-1, and Deodar Reservoirs. The dates of inspection and inspection type are shown in Table 4-1 below.

Table 4-1
Planned Inspection Dates for A, C, E-1, and Deodar Reservoirs

Reservoir	Date of Inspection	Inspection Condition
А	05/20/2020	Interior and Exterior, Dry
С	05/14/2020	Interior and Exterior, Dry
E-1	05/14/2020	Interior and Exterior, Dry
Deodar	05/27/2020	Interior and Exterior, Dry
Deodar	05/20/2020	Interior, Wet

# 4.1 Purpose

The purpose of an on-site visual condition assessment is to verify general conformance of existing construction and/or identify significant alterations to those described in available documents, supplement any information not made available, and observe the general condition of the existing reservoirs. For efficiency, thumbnails of photographs are shown in the body of the report. Larger versions of the photographs shown can be seen in APPENDIX D.

#### 4.2 Schmidt Rebound Hammer Results

To assess the general condition of the concrete strength of the reservoirs, PSE performed non-destructive in-situ testing of the structures with use of a Proceq silver-schmidt rebound hammer. A schmidt hammer measures the rebound of a spring-loaded mass impacting against the surface of a sample and converts the measured rebound to determine a calculated compressive strength for the material. A Schmidt hammer is intended to be calibrated to tested sample specimens of the in-place concrete. Use on existing concrete is less reliable and can be affected by a number of parameters (cement type, aggregates, surface calcification or weathering, carbonation of the concrete, etc.). As such, in-situ estimates of strength by rebound hammer method should not be used exclusively for analysis purposes but are useful for providing an expected upper limit of the compressive strength and identifying regions of deviation within a structure. A summary of schmidt hammer testing results are shown in Table 4-2 below.

Table 4-2
Schmidt Rebound Hammer Results

Compressive Strength (psi)					
Reservoir	Min	Max	Average	Standard Deviation	
Α	3700	8150	5800	2200	
С	2600	7600	5350	1800	
E-1	5100	6300	5550	700	
Deodar	7200	10000	8000	1400	

# 4.3 A, C, and E-1 Reservoir Inspections

PSE performed the inspection of A, C, and E-1 Reservoirs on the dates shown in Section 4 of this report. The reservoirs were drained/dry at the time of the inspections.

#### 4.3.1 Exterior Backfill

Based on exterior and interior measurements, PSE was able to estimate an approximate backfill range at each reservoir, which has been summarized in the Table 4-3 below:

Table 4-3
A, C, and E-1 Reservoirs Backfill Summary

	A Reservoir	C Reservoir	E-1 Reservoir
Maximum	5'-6"	4'-0"	2'-0"
Minimum	2'-0"	3'-0"	1'-0"

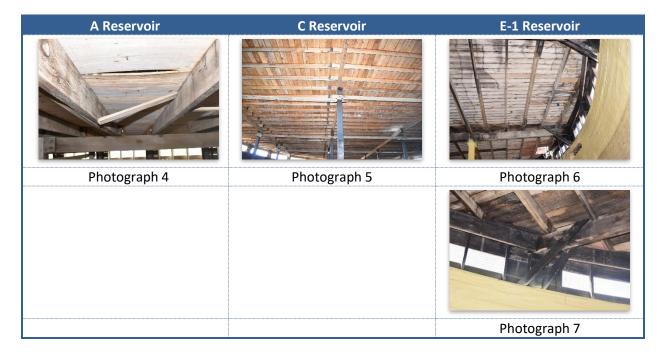
# 4.3.2 Roof Exterior

In general, the roof top surfaces were noted to be in poor to fair condition. The roofs are flat and consists of a built-up membrane. Visible sagging and evidence of ponding along the roof edge was observed throughout the roofs (see Photographs 1-3 below). When walking on each of the roof surfaces, it was noted to be very "springy" with areas of excessive deflection, indicating the sheathing is undersized for the framing spans or there may be damage to the sheathing or underlying framing. A Reservoir was noted to be considerably more springy than C and E-1 Reservoirs. The underlaying diaphragms as observed from the interiors comprised of straight lumber sheathing on C and E-1 Reservoirs which likely contributed to the more firm walking surface, as the diaphragm at A Reservoir was observed to consist of structural sheathing. Based on the provided Santa Fe Roofing invoice number 2646 dated 6/19/2006, we understand the roof of C Reservoir should consist of 7/16" roof sheathing panels with a three-ply built-up hot mopped roof system. As part of work, we understand District Staff repaired damaged roof members prior to the installation of the new roof system atop the straight lumber sheathing of C Reservoir in 2006.



# 4.3.3 Roof Underside and Framing (interior)

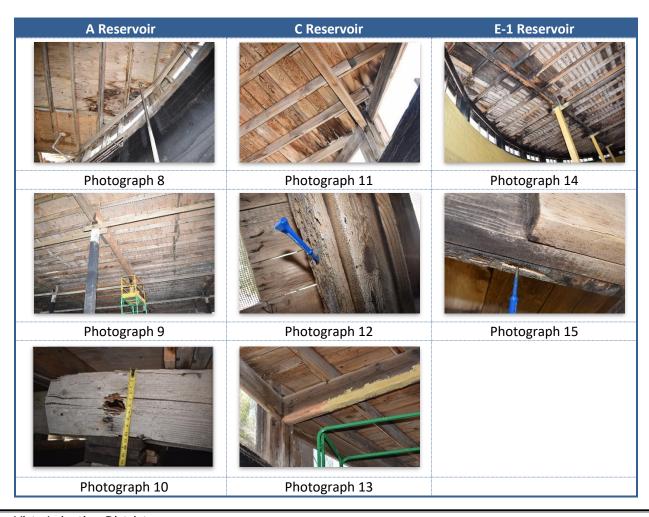
In general, the roof framing and sheathing was noted to be in serious to poor condition. The 1x bridging between rafters was noted in a few locations (see Photographs 4 -7 below). Typically, this bridging would be installed between all roof rafters. That only a few areas of bridging were observed indicates that these members may have been removed or separated since original construction. The roof framing appears to be in general conformance with the historical drawings, with the exception of E-1 Reservoir where two 2x6 knee braces where observed between the girders and posts, one on each side (see Photograph 7).



Staining, areas of wood distress, and deterioration were noted throughout the underside of the sheathing and framing of the roof structures. Leakage through the roof membrane is evident based on the wood staining and deterioration observed (see Photographs 8-15 below). Previous replacement and/or modifications of existing roof framing members were noted at multiple locations throughout the roofs. Many of the existing roof members had been mechanically attached to new 2x wood members (a

strengthening technique commonly to referred to as "sistering"), indicating that original framing members had previously required strengthening.

At the time of the inspection of A Reservoir, new 2x wood members had recently been sistered to an existing deteriorating girder and we understand additional strengthening was to be performed on a different deteriorating girder (see Photograph 10) following our inspection. Similarly, at the time of the inspection of C Reservoir, water putty was being applied to deteriorated girders, primarily as a protective coating from what appeared to be termite damage. Ends of many of the original rafters have been cut indicating previous deterioration, and subsequent alterations and strengthening, mostly by sistering of new wood members. Moisture readings taken of the wood roofs ranged from 16% to 24% at A Reservoir, 8% to 16% at C Reservoir, and 19% to 23% at E-1 Reservoir. Deterioration appears to be a combination of moisture damage and termite damage. In conjunction with the sagging observed from the rooftop, noticeable bowing of the rafters and girders was noted during the inspection. Overall, the roof framing at A Reservoir was observed to be in overall worse condition than observed at C Reservoir and E-1 Reservoir. Physical inspection of the interior roof members was limited to areas that could be accessed from a platform that was in place at the time of the inspection at A Reservoir. Close up physical inspection of the interior roof members was not performed due to accessibility and safety concerns at C and E-1 Reservoirs.



Vista Irrigation District:

#### 4.3.4 Infill Wall

The Infill walls were noted to be in generally poor to fair conditions. The infill walls consist of a 2x8 sill plate, 8x8 posts (6x6 post at C Reservoir), and 2x studs that attach to the 2x exterior sheathing and metal cloth screen (see Photographs 16 – 18 below). While probing the wall members with a scratch awl, it was noted that the wood was "soft", indicating that the exterior surface of the members have exhibited decay and deterioration, which may result in a loss of structural capacity of the members.



With the exception of E-1 Reservoir, the sill plate appeared to be anchored with a 5/8" diameter bolt and spaced on average at approximately 4' on center as indicated in the historical drawings. At E-1 Reservoir, the anchors appeared to be spaced well in excess of 4' on center and without the use of a nut or washer to create a positive connection to the wall below, indicating that the nuts may have either been lost/removed over time or potentially were not installed during construction. Surface rust and deterioration was noted at the bolts and nuts (see Photographs 19-21 below). In addition, what appeared to be signs of a termite infestation and corresponding damage was observe at the infill wall framing.



Where the 4x12 roof girders bear on the notched 8x8/6x6 wall posts, it was noted that the available notched space provided little to no bearing area for the perimeter 2x12 girders. In some cases, the 2x12 girders rely almost exclusively on nailing to the ends of the interior girders for transfer of roof loads to the posts (see Photographs 22 - 24 below). Given the deterioration of the 4x12 girder ends and the exposed shank, the connections do not appear adequate to transfer the roof loads to the posts and are a structural concern.



#### 4.3.5 Columns

The interior concrete columns were confirmed to be 8'' square in section as indicated in the historical drawings. Due to the presence of the liner around all the posts, we were not able to visually observe the condition of the concrete. The liner covers the entire column surface, thereby obstructing views to any cracking or minor deformations that may be present in the columns. However, it was noted that several of the posts had been modified/repaired or showed loss of section, which appear to have occurred prior to, or at the time the reservoir walls and columns were lined (see Photograph 25 - 27 below).



#### 4.3.6 Slab Floor

Similar to the columns, the top surface of the interior floor slabs was observed to be coated with an interior liner, obstructing view to any minor cracking or deformations that may be present. Areas of bubbling, delamination, and patching of the liner was noted at various locations along the floors of A and C Reservoirs, typically near the base of the columns or perimeter wall (see Photographs 28 - 30). With the exception of a few areas of blistering near the perimeter wall, the liner at E-1 Reservoir appears in generally good condition.



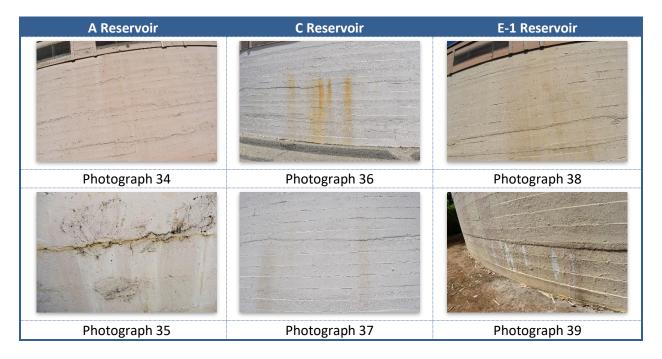
#### 4.3.7 Reservoir Walls

Based on the areas that could be observed, the reservoir walls were noted to be in generally fair condition. The interior of the reservoir walls was observed to be coated with the same liner as the columns and slab which obstructs view to any minor cracking or deformations that may be present. Areas of bubbling, delamination, and patching of the liner was noted at various locations along the interior walls (see Photographs 31 - 33 below). The wall liner at E-1 Reservoir appeared in better condition than at A and C Reservoirs.



From the exterior, full height vertical cracks were noted in various locations along the walls, typically spaced at intervals of 8 to 10 feet on center and measured to be approximately 0.006 inches thick. Based on observations made, the cracks do not appear to be newly formed and are likely a result of temperature expansion and contraction of the concrete. Wall staining was also observed from the exterior of the reservoirs (see Photographs 34 – 39 below). This staining was determined to likely be a result of runoff from ponding and drainage issues observed at the roof, causing streaking and staining onto the exterior wall surfaces. In addition, it appears a flexible crack sealant had been previously installed at areas along some of the cold joints prior to application of the exterior paint layer, indicating active leakage may have been present or this sealant could have been installed as a preventative measure. Water staining was also noted at the south-west quadrant of the exterior wall at A Reservoir, along the bottom horizontal cold joint, approximately 24" above grade (see Photograph 35), indicating potential active leakage. The water staining was felt to be dry to the touch. However, the reservoir had been drained when this stain was observed. In addition, efflorescence (a sign of dried water seepage) was noted at the north quadrant of

the exterior wall of E-1 Reservoir, along the bottom horizontal cold joint, approximately 30" above grade (see Photograph 39). Similar efflorescence was noted in the HDR condition assessment in 2017.

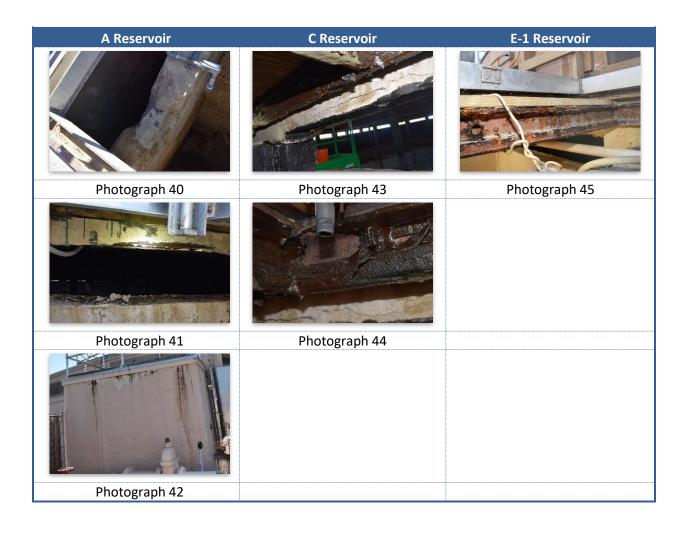


#### 4.3.8 Control Box

The condition of the reservoir control boxes varied and were noted to be in generally serious to fair conditions. With the exception of the roof framing members, the control box at A Reservoir was noted to be in serious to poor condition. Based on conversations with District staff, we understand the control box roof framing at A Reservoir was recently replaced and based on PSE's observations, appears in good condition. Concrete spalling was observed at the top of the interior control box wall (see Photograph 40), at the overflow opening (see Photograph 41) during the inspection of A Reservoir. In addition, concrete staining and discoloration was observed near the top of the exterior control box walls of A Reservoir (See Photograph 42). We understand that when the existing roof was removed, concrete was formed and poured around the top of the existing wall as part of the installation of the new roof which is the likely cause for the staining and discoloration. The rebar was exposed at the overflow opening and showed significant deterioration.

The control box interior of C Reservoir, including portions of the steel roof framing was coated with a CIM liner, visibly obstructing ability to view any cracking or deformations that may be present. However, significant cracking at the overflow opening was noted during the inspection (see Photograph 43). While the CIM liner provides a protective coating, exposed areas of steel roof framing were noted to exhibit signs of moderate deterioration (see Photograph 44).

The control box interior of E-1 Reservoir was also coated with an epoxy liner, obstructing ability to view any cracking or deformations that may be present. However, moderate to severe corrosion and section loss of the control box roof framing was noted at the time of the observation (see Photograph 45).



# 4.3.9 Appurtenances

Based on the site observations, appurtenances were found to be in generally good condition. No separation or failure of the elements were noted during the site visit, and coatings appeared intact. As such, the existing interior appurtenances appear to be functional and in good condition. Minor corrosion blooms and rusting were noted at the fixed ladders at control boxes and at the reservoir roof hatches, but the exterior appurtenances appeared in overall good condition.

#### 4.3.10 Liner/Coating

During the interior inspection of A, C, and E-1 Reservoirs, observations of the interior coating condition were made as follows:

A Reservoir: The existing CIM coating applied by Guardian Waterproofing & Caulking in 2007 has widespread small bubbling across the entire extent of the floor area, and also in the lower portions of the walls within about 4 vertical feet of the floor. Overall, however, the coating is in very good condition, with minimal delamination observed. See Photographs 46 and 47 below, which show the bubbling. Bubbles over ½-inch in diameter were observed only in a small number of locations along floor joints between

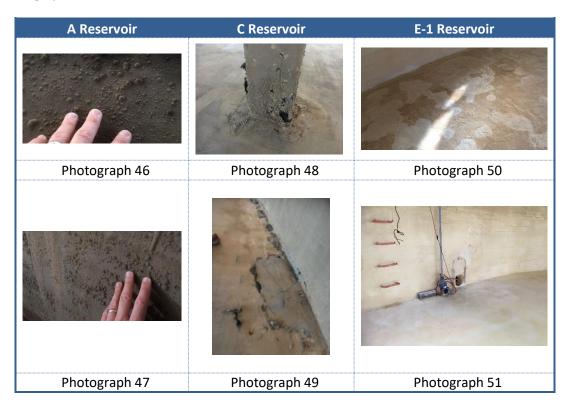
interior columns. Annual spot repairs are recommended until such time as the reservoir is demolished in the near future.

**C Reservoir:** The existing CIM coating applied in 2014 is in adequate condition for approximately 90% of the interior surface area of the walls and floors. The remaining 10% of the interior surface area has the following two main issues:

- Around the entire circumference of the entire floor area, coating patching has taken place. The coating appears to have been ponded in excessive amounts to "push" the coating into the scrim along the joint between the floor slab and the base of the wall. Thus, there is a two to three-foot wide band of built up coating around the outer portion of the floor, along the entire wall circumference. Much of this coating is cracked or delaminated. See Photograph 49 below.
- The coating is delaminated at the base of several of the interior columns. See Photograph 48 below.

Although this tank is slated for near-term demolition, it is recommended that the damaged 10% of interior concrete surface area be repaired, if the District plans to continue use of this tank past January 2021.

**E-1 Reservoir:** The existing Warren Environmental Epoxy applied in 2016 is in very good condition. There was only one location of observed coating delamination (less than 0.5 square feet in area). Less than 5 percent of the floor area has bubbling in the floor, but the bubbling has not resulted in any delamination. See Photographs 50 and 51 below.



# 4.4 Deodar Reservoir

PSE performed the first inspection of Deodar Reservoir on May 20<sup>th</sup>, 2020. The reservoir was full at the time and the inspection was performed from an inflatable raft to observe the interior condition of the roof framing. PSE also performed a second inspection of Deodar Reservoir on May 27<sup>th</sup>, 2020. The reservoir was drained/dry at the time of the second inspection.

#### 4.4.1 Exterior Backfill

Exterior measurements estimated a backfill range of approximately 11'-2" inches to approximately 20'-8" +/- 6 inches around the reservoir. The reservoir is located on a sloped site, and can be accessed via private road that adjoins Deodar Road in Escondido, California.

# 4.4.2 Roof Exterior

In general, the roof top surface and center vent was noted to be in fair condition. Isolated damage/denting of the aluminum roof decking was noted. This damage is likely due to routine use by District staff indicating the support conditions and strength of decking is under designed for operational use. Corroded deck fasteners were noted throughout the roof structure. In addition, at ridge seams, elongated, missing, and/or sheared fasteners (see Photograph 52) were observed indicating damage due to thermal expansion of the aluminum deck.

At the drain channels, a build up of debris has formed at the perimeter ends which has allowed for growth of plant life and is impeding the drainage of the roof (see Photograph 53). In its observed condition, the drain can be expected to overflow during times of heavy rainfall, allowing for water intrusion of the exterior portions of the valley glulam beams (shown later in the report). We understand that shortly after PSE's site visit, leaves and debris were cleaned out of the drain channels. In addition, light was observed at deck seams from the interior (see Photograph 54), indicating weatherproofing and water quality concerns.



#### 4.4.3 Roof Framing (interior)

Per the original roof system specification "all wooden roofing and roof framing material, including rafters, glue laminated beams and plywood, shall be pressure treated with pentachlorophenal". This could not be verified based on visual observations, however the use of this preservative, while common during the era of original construction, is not permitted per current design and water quality standards.

# 4.4.3.1 Ridge Glulam Beams

In general, the roof ridge beams as observed from the interior of the reservoir appeared in good condition. Minor water staining of the beam and CMU wall was observed (see Photograph 55) but overall the ridge beam and ridge beam connectors were noted to be in better condition than the valley and lateral Beams (described below).



# 4.4.3.2 Valley Glulam Beams

In general, the roof valley beams as observed from the interior of the reservoir appeared in fair condition. Water staining was observed and appeared to get progressively more severe moving from the center column to exterior wall (see Photograph 56), indicating potential drainage and/or ventilation concerns. Minor delamination was observed at the valley beams but appears to mostly be present near the wall (see Photograph 57). In some cases, it appears the laminations were strengthened by means of epoxy injection (see Photograph 58). Moisture readings of the valley beams typically ranged from 13% - 18% with the exception of the valley beam east of the entry hatch opening which, measured a moisture content of approximately 23%. While probing the beams with an awl during the full/wet inspection, the wood that could be accessed was noted to be competent.



# 4.4.3.3 Lateral Glulam Beams

In general, the roof lateral beams as observed from the interior of the reservoir appeared in fair condition. Water staining was observed primarily at rafter intersections and appeared to get progressively more severe moving from ridge to valley (see Photograph 59), indicating potential drainage and/or ventilation concerns. Lateral beam hardware and connections appeared in generally good condition. However, minor

deterioration was noted at some of the lateral beam hardware (see Photograph 60). Minor delamination was observed at the valley beams. In some cases, it appears the laminations were strengthened by means of epoxy injection (see Photograph 61). Moisture reading taken of lateral beams ranged from 14% - 25%.



# 4.4.3.4 Rafters

In general, the roof rafters as observed from the interior of the reservoir appeared in poor to fair condition. Due to the limitations of the wet/full inspection, we were unable to closely examine the condition of all the existing rafters. Water staining and deterioration was observed and appeared to be concentrated at laps above lateral beams (see Photograph 62). Rafter hardware and connections appeared in generally poor conditions with moderate deterioration noted at most connections (see Photograph 63). In some extreme cases the hardware and connections have failed completely (see Photograph 64).



# 4.4.4 Roof Framing (Exterior)

Close up physical observations of the exterior roof framing were limited to areas that could be safely and easily accessed with an extension ladder.

# 4.4.4.1 Ridge Glulam Beams

In general, the roof ridge beams as observed from the exterior of the reservoir appeared in fair condition. Checks and delamination were noted (see Photograph 65), but no visual signs of overstress were observed.



# 4.4.4.2 Valley Glulam Beams

In general, the roof valley beams as observed from the exterior of the reservoir appeared in serious to poor condition. The beam ends were observed to show signs of severe deterioration with active moisture and algae growth (see Photograph 66). When probed with a scratch awl, the beam ends were noted to be very soft, allowing the awl to penetrate in excess of 1-inch. In addition, moisture readings were measured to be in excess of 39% at the beam ends. This appears to be a result of the poor drain design mentioned earlier in this report. The beams were determined to be in fair condition approximately 1-foot from the ends based on probing and moisture readings of less than 19%. However, the top surface of the glulam beam that supports the drains was not able to be observed due to the presence of wood framing (see Photograph 67) and this area may be subject to similar damage as observed at the beam ends based upon the drainage design. It was noted that the downspouts are located at the reservoir face, interior from the ends of the valleys, so the overhang portions of the valley gutter do not have any method to allow it to drain without overflowing over the end of the beam or along the length of the gutter channel. It is probable that areas of additional damage may be hidden along the top of this valley beam overhang that cannot be observed without removing the roofing in this area.



#### 4.4.4.3 Exterior Framing

In general, the roof framing as observed from the exterior of the Reservoir appeared in poor condition with the exception of where the rim boards bear on the valley beams where signs of severe deterioration with active moisture and algae growth were observed (see Photograph 68), likely a result of the poor drain design mentioned earlier in this report. In addition, minor to moderate deterioration was noted at the overlook framing in contact with the aluminum deck (see Photograph 69). Damage at the reservoir wall

blocking was also observed from what appears to be a result of termites or local wildlife (see Photograph 70).



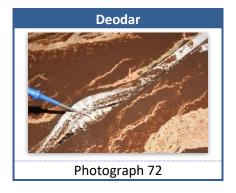
# 4.4.5 Column

The column was confirmed to be 30" in diameter as indicated in the historical drawings. Based on observations made during the inspection, the column appears in generally good condition (see Photograph 71).



# 4.4.6 Slab Floor

Based on observations made during the inspection, the base slab appears in generally good condition. However, it was noted that the slab joint filler was protruding from the joints and has likely reached the end of its useful life (see Photograph 72).



# 4.4.7 Concrete Masonry Unit (CMU) Walls

The CMU walls were noted to be in generally good condition. Surface staining from the interior (see Photograph 73) was noted, indicating potential drainage and/or ventilation concerns of the roof framing.



# 4.4.8 Reservoir Walls (interior)

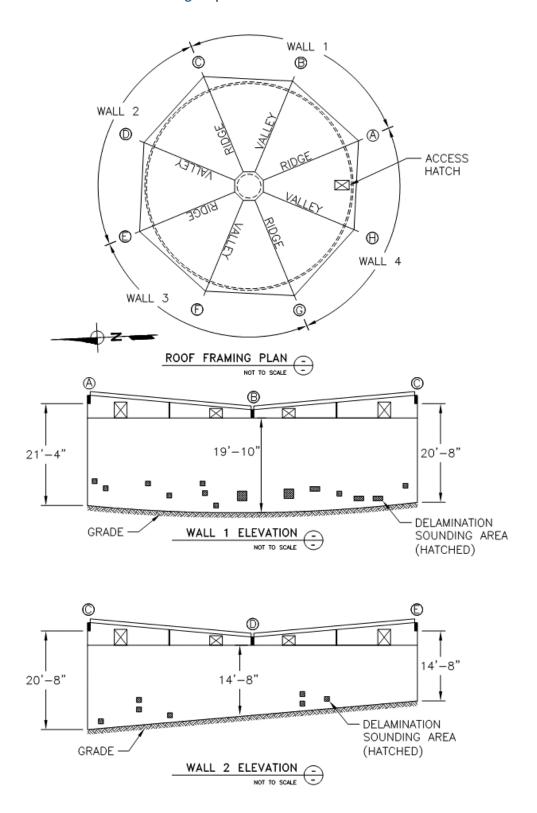
The prestressed concrete core wall was observed from the interior and was determined to be in generally good condition. Areas of pitting/bug holes (see Photograph 74) were noted during the drained inspection. In addition, water staining was noted below valley beams (see Photograph 75), indicating potential drainage and/or ventilation concerns of the roof framing.

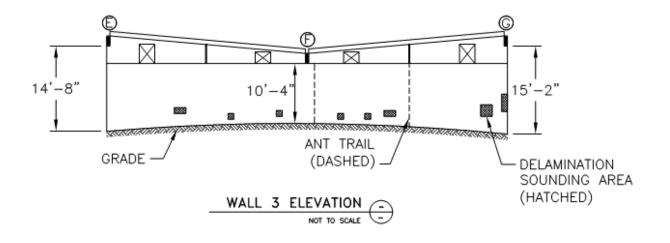


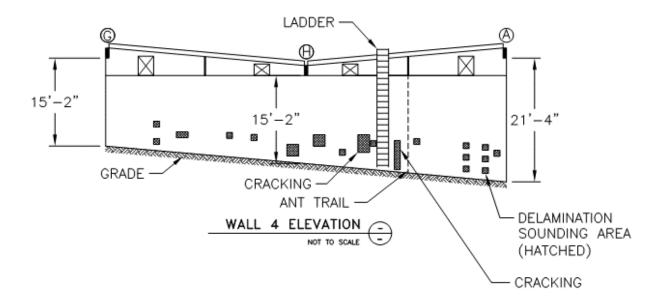
# 4.4.9 Reservoir Walls (exterior)

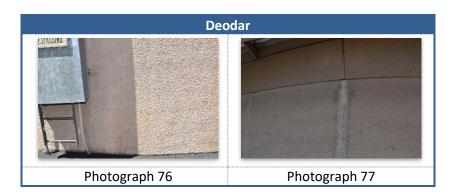
The exterior gunite wall layer was visually inspected and the bottom 7-feet sounded with a rock hammer during the drained/dry inspection of Deodar and was noted to be in generally fair condition. "Hollow" sounding areas (which identify possible gunite delamination and/or spalling that could allow water intrusion and corrosion of the circumferential prestressing wire) were noted throughout the reservoir and were observed more frequently on the south-east quadrant of the reservoir (see Figure 4-1). Additionally, minor surface cracking (see Photograph 76) was noted at some of the hollow sounding areas. Based on experience with structures of similar age and construction, the sounding results indicated that delamination has likely occurred between gunite layers and has not progressed to the prestressed galvanized strands. This delamination is likely a result of temperature expansion and contraction of the gunite and/or the result of initial imperfections during the gunite application. Delamination that is present at the prestressing material typically materializes in more significant spalling of the gunite than was observed at Deodar. Additionally, such extent of delamination is typically results in more pronounced hollow sounds when struck with a hammer. Full height vertical ant trails were noted along the wall, indicating a potential infestation of organisms that could affect the quality of the reservoir's contents. Additionally concrete staining below CMU expansion joints (see Photograph 77) was observed indicating a potential ventilation and/or drainage concern.

Figure 4-1: Deodar Reservoir Sounding Map





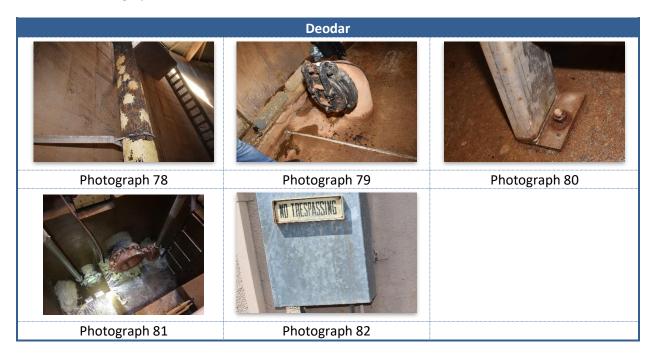




# 4.4.10 Appurtenances

Based on our observations, the condition of appurtenances varied but was noted to be in generally fair conditions. While inside the reservoir during the dry/drained inspection, moderate surface deterioration

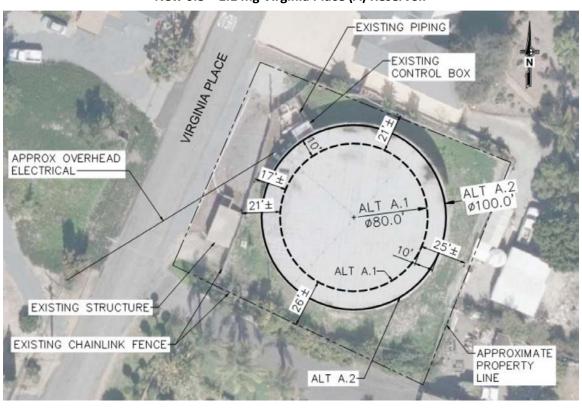
and what appeared to be previous repair work of the overflow pipe was observed (see Photograph 78). Cathodic protection has been installed to control the corrosion of the overflow pipe and other metal surfaces and we understand new anodes were to be installed following our inspection. The overflow pipe was noted to be braced near the base slab. As the base slab is seismically isolated from the tank walls, this bracing condition could result in damage to the overflow pipe if the flexible coupling joint can't accommodate the imposed seismic deflections in a large seismic event which could significantly limit the capacity or results in the loss of the full storage capacity of the reservoir in immediate post-earthquake applications. Other metal surfaces had been coated with a protective layer (see Photograph 79), obstructing the condition of these elements. With the exception of these items, the internal appurtenances appeared in generally fair condition with some minor surface corrosion noted (see Photograph 80). Valves in the valve pit are in good condition. The sacrificial anodes appear to be working well in minimizing corrosion of the valves (see Photograph 81). The exterior appurtenances were found to be in generally good condition. No separation or failure of the elements were noted during the site observation, and coatings appeared intact. Minor corrosion blooms and rusting were noted at the fixed ladder (see Photograph 82).



New 3.0 mg Virginia Place (A) Reservoir



New 0.8 – 1.1 mg Virginia Place (A) Reservoir



# **Attachment D**

# Excerpt from Roof Structural Assessment Report



# ROOF STRUCTURAL ASSESSMENT REPORT 20 MILLION GALLON PECHSTEIN RESERVOIR



# **SEPTEMBER 2018 REPORT**

Prepared by:



2655 Camino del Rio North, Suite 100 San Diego, California 92108 (858) 496-0500



Richard Brady & Associates 2655 Camino del Rio North, Suite 100, San Diego, CA 92108 858/496-0500 www.richardbrady.com

September 28, 2018

Vista Irrigation District 1391 Engineer Street Vista, CA 92081

Attention: Mr. Greg Keppler, PE QSD, Engineering Project Manager

**Subject:** Roof Structural Assessment Report

20 Million Gallon Pechstein Reservoir

Vista, CA

Dear Mr. Keppler,

In accordance with the contract Scope of Work, field investigation and an assessment of the subject facility has been completed. Richard Brady & Associates (BRADY) personnel performed an inspection of the roof at Pechstein Reservoir on the dates of July 12 and 17, 2018. The field investigation was performed by Amanda Del Bello, P.E., Engineer-Diver, and Garrett Murawsky, E.I.T.

#### **EXECUTIVE SUMMARY**

Inspection, assessment and structural analysis was performed by BRADY to support the development of repair recommendations related to the roof and/or complete roof replacement. This inspection and assessment was initiated based on recommendations made in the District's 2018 Master Plan. The Master Plan contained a Reservoir Condition Assessment of Pechstein Reservoir which included recommendations for further investigation which included the following: "Perform a detailed condition assessment of the reservoir interior, ...reservoir roof replacement [investigation], and perform a seismic evaluation of the reservoir to determine...compliance with current seismic code." As a result BRADY was tasked with conducting a visual inspection of the roof interior as it relates to repair or replacement of the roof, review of historical documents and a structural evaluation to assess whether the reservoir meets current structural/seismic design code requirements. This reports presents the findings and includes recommendations for roof replacement, a cost estimate and anticipated schedule.

This inspection and assessment determined the existing roof system is structurally deficient. Structural analysis was performed on the reservoir walls and foundations to determine whether the existing reservoir meets current code requirements. The analysis determined that the reservoir perimeter wall and foundation do not meet the requirements of the current code. Although deficiencies were found, it

Roof Structural Assessment Report Pechstein Reservoir September 28, 2018



is our opinion that the reservoir has adequate structural capacity below the existing roof to support an aluminum dome roof.

The reservoir prestressed walls are in good condition overall and are capable of providing an additional 50 years of service life, provided the existing roof is replaced with a lighter aluminum dome replacement roof.

A cost estimate was performed for demolition of the existing roof system and costs associated with installation of a new aluminum dome roof only. This cost for the recommended roof replacement work is \$11.05 million and the expected out of service construction time is 10 months. These costs do not include any other improvements needed for the reservoir including those identified in the Master Plan. The recommendations made in the Master Plan would require further investigation as part of an overall design for the roof replacement project. Temporary repairs could be made to maintain the reservoir in service until a long term improvement can be made. Further investigation would be required, including core sampling of the glulam valley beams near the perimeter wall in order to come up with a temporary repair design. Maintenance repairs can also be made including replacing simpson connectors and patching the roof deck. No costs are provided for these repairs because it was not included in the scope of this effort.

# REFERENCE DOCUMENTS

The following documents were considered as part of this investigation:

- 1. Record drawings titled, "Filtered Water Storage Project of 1976", dated October 1976, prepared by James M. Montgomery, Consulting Engineers, Inc. See Appendix D for excerpts from the full set of drawings pertinent to this assessment.
- 2. Geotechnical report titled, "Geotechnical Investigation for 20 Million Gallon Pechstein Reservoir San Marcos, California, dated April 1976, prepared by Robert Prater Associates.
- 3. Appendix B of the District's 2018 Master Plan titled, "Reservoir Condition Assessment, Vista Irrigation District", dated October 26, 2017, prepared by HDR Engineers.
- 4. Miscellaneous historical documents related to previous investigations and repairs provided by Vista Irrigation District, see Appendix E for documents and "Background Information and History" section of this report for a summary.
- 5. Original construction shop drawings titled, "20 MG Reservoir", dated March 1, 1976, prepared by DYK BBR Prestressed Tanks, Inc. Included in Appendix D Record Documents.

# **DESCRIPTION OF FACILITY**

Pechstein Reservoir is a 20 million gallon (MG) reservoir owned and operated by the Vista Irrigation District (VID) and is located at 3784 Bluebird Canyon Road, Vista, CA, see Figure 1 of Appendix A – Location and Vicinity Map. The reservoir, designed in 1976, is a partially buried, prestressed concrete reservoir with a 355-ft interior diameter according to Reference Document No. 1 (Reference Document No. 5 indicates 351-ft interior diameter); see Photo 1. The reservoir perimeter wall is an 18-in. thick castin-place (CIP) concrete core wall with a 2-in. thick layer of shotcrete on the exterior. The CIP wall

Roof Structural Assessment Report Pechstein Reservoir September 28, 2018



incorporates 1.25-in. diameter prestressed vertical tendons in the center of the wall and 3/8-in. diameter seven wire strand seismic restraint cables located 5-in. from the exterior face of the CIP wall. Circumferential prestressing reinforcement (3/8-in. diameter seven wire strands) surrounds the CIP walls which are covered by the 2-in. thick layer of shotcrete. The spacing and quantity of circumferential prestressed reinforcement is determined as a function of the wall height and required prestress per foot of wall height.

The CIP core wall is 28 feet tall of which approximately 21-ft is buried. Above the CIP wall is a nominal 8-in. reinforced concrete masonry unit (cmu) wall with ¾-in. thick stucco exterior and louvers spaced every 14 feet. The wall elevation varies (3 courses high to 11 courses high) to support eight valley and eight ridge roof beams, see Photo 2. At the center of the reservoir there is a roof vent cupola structure, the highest point at 24.33-ft above the finished grade around the reservoir.

The valley and ridge roof beams are glued laminated (glulam) timbers placed in a radial direction around a 4-ft diameter center CIP concrete column and a 20-ft diameter CIP concrete platform, see Photo 3. The glulam ridge and valley beams extend from the center platform of the reservoir to the exterior of the perimeter wall (Photo 4) and are supported intermediately by three concentric circles of 2-ft diameter CIP concrete columns. Mid-way between the ridge and valley beams there are a total of 16 glulam beams extending between the exterior concentric circle of columns and the cmu wall.

The ridge and valley beams support 12 glulam purlins in the transverse direction. The purlins support 2"x10" rafters at 7-ft on center and corrugated aluminum roofing. The glulam framing plan can be seen in Figures 2 and 3 of Appendix A where the radial glulam beams are labeled one through 32 and transverse purlins A through L. This nomenclature system will be used to identify location of defects in this report.

# **Attachment E**

# **Excerpt from Potable Water Master Plan**





# Potable Water Master Plan

Vista Irrigation District

Committed to Supplying High Quality Water in an Economically and Environmentally Responsible Way

April 9, 2018

# **Executive Summary**

The purpose of this Potable Water Master Plan is to provide a comprehensive review of the Vista Irrigation District's potable water supply and distribution system and develop a structured program to identify system improvements necessary to meet existing and future demand conditions. System improvements are identified through a condition assessment of existing facilities and distribution system hydraulic analyses. This effort includes an updated and calibrated hydraulic model that accurately reflects the current distribution system demands and operating parameters.

# Service Area and Water Demands

The District's service area encompasses property within the City of Vista, the City of San Marcos, and the County of San Diego. Each of these agencies has adopted a General Plan document that is incorporated into a regional planning database. This database is utilized in this Master Plan for understanding water usage based on land-use and developing unit demand factors for estimating future water demands.

The District's historical water use has varied significantly over the past 30 years, reaching a peak in 2004, with current demands dropping below those seen in 1986. The downward trends over the past 10 years can be attributed to a number of factors ranging from economics, weather, adoption of increased water conservation measures, and mandated restrictions. Due to these factors, the build-out demand projection in this Master Plan is 25 percent less than that estimated in the 2000 Master Plan; and as a result, very little expansion based projects are identified and the Capital Improvement Program instead focuses on system reliability and redundancy, in addition to pipeline replacements.

# Water Supply Reliability

The District maintains capacity rights from two sources, raw water treated at the Escondido-Vista Water Treatment Plant located at Lake Dixon and multiple treated water connections along the San Diego County Water Authority's aqueducts. Due to reduced costs, the District typically maximizes the locally treated water supply and relies on the 11-mile Vista Flume for conveyance into the District. During a planned 10-day shutdown along the Second Aqueduct, the District is dependent on the Vista Flume. With the Flume approaching its useful life, this Master Plan reviews and outlines a number of recommended alternative projects for further study that can add redundancy, reliability, and operational flexibility to offset the Flume being out of service either short term or long term.

# Pipeline Condition Assessment and Replacement Strategy

A detailed pipeline condition assessment is presented in this Master Plan that provides an overall system risk assessment along with several investment scenarios that estimate how various funding levels will impact future service levels. This assessment provides a tool for the District to strike the appropriate balance between affordability and sustaining desired service levels and also focus those investments to ensure ratepayers realize the greatest return on their investment.

# Reservoir Condition Assessment

Condition assessment inspections of 10 of the District's 12 potable water reservoirs were completed to document the current condition of the civil site, corrosion, and structural aspects of the reservoirs. The findings of the inspection of the District's reservoirs were used to recommend and prioritize improvements for the rehabilitation or replacement of reservoir equipment and identify any additional assessments required.

# Capital Improvement Program

An updated Capital Improvement Program has been developed based on redundancy or replacement and rehabilitation improvements for the existing distribution system and an ultimate system based on projected buildout demands. The recommended projects are shown in **Figure ES-1**, and estimated costs are provided in **Table ES-1**.

# Resulting System Deficiencies

Implementing the VID 9 and VID 11 redundant water supply alternatives results in acceptable operating pressures but also creates pipe velocities above the evaluation criteria of 8 fps under ultimate PHD conditions. Further study is required to assess specific demand conditions and mitigation measures that could alleviate these high velocities. Pipes experiencing high velocities include the following.

- 18-inch diameter pipe in Edgehill Road
- 20-inch diameter pipe Mango Glen to Catalina Heights Way
- Various pipes in Buena Creek Road
- 14-inch feed into HB Reservoir

# 8.3 Storage Assessment

The required reservoir storage based on ultimate system demands and the storage criteria defined in **Chapter 4** is presented in **Table 8-3**. The storage assessment is based on ultimate demands and storage for each zone. Projected ultimate demands were estimated using the methodology discussed in **Chapter 3** and allocated to pressure zones based on land use type. It was also assumed that zones with excess capacity would supplement storage deficiencies in other zones. As with the existing storage assessment discussed in **Chapter 7**, the ultimate system storage assessment presented in **Table 8-3** does not account for storage required during Water Authority aqueduct shutdowns.

Based on the required storage calculations, the ultimate system is projected to have a storage deficit of 3.88 MG. As with the existing system storage assessment, the 707, 637, 752, and 565 zones are projected to have insufficient storage based on projected demands. The remaining zones have excess capacity, notably the 837 zone has significant excess storage capacity in Pechstein Reservoir.

The 2000 Master Plan recommended the construction of a 20 MG Pechstein II Reservoir to address the projected ultimate system deficiency and additional emergency storage. The proposed Pechstein II location, adjacent to the existing Pechstein Reservoir location, is advantageous based on the availability of District owned land to accommodate such a large reservoir, and its elevation. This would also allow the District to take the existing Pechstein Reservoir off line for rehabilitation. Additional storage serving the 837/810 zone would provide flows to all the lower zones projected to have storage deficiencies in the ultimate system. Any additional storage would need to have an operational capacity of at least 3.88 MG in order to offset the projected ultimate system storage deficiency.

Reservoir E is being considered for near term replacement. In 1995, the proposed replacement project consisted of a 146-diameter, 38-foot-high, 4.4 MG prestressed concrete reservoir, as discussed in **Chapter 4**. This reservoir would enhance emergency supply within the E zone, which requires 4.98 MG in the ultimate system. However, this site is significantly constrained by neighboring residences and sensitive habitat. Alternatively, the District's total storage deficit would be offset with the addition of a Pechstein II Reservoir project.

**Table 8-3. Ultimate System Storage** 

Maior	AAD <sup>1</sup>				Storage Criteria <sup>3</sup>						Existing	C	
Major Pressure Zone	Zone Grade (Feet)	(gpm)	(MGD)	MDD <sup>2</sup> (MGD)	Operational (Gallons) +	Fire (Gallons)	or	Emergency (Gallons)	=	Total (MG)	Reservoir	Operational Storage (MG)	Surplus (Deficit) (MG)
HB Zone	984, 900	1,233	1.78	3.55	355,029	300,000		3,550,286		3.91	НВ	4.05	0.14
HP Zone	976	212	0.31	0.61	61,098	300,000		610,980		0.67	HP	4.30 <sup>4</sup>	3.63
AB/HL Zone	837	2,770	3.99	7.98	797,722	540,000		7,977,218		8.77	Pechstein	18.50	9.73
810, F Zone	810, 668	1,136	1.64	3.27	327,179	540,000		3,271,790		3.60	Н	5.00	1.40
707 Zone	707, 630	1,890	2.72	5.44	544,197	735,000		5,441,972		5.99	Α	0.60	(5.39)
CX Zone	637	1,237	1.78	3.56	356,209	540,000		3,562,086		3.92	С	0.60	(3.32)
E Zone	752	1,571	2.26	4.52	452,444	540,000		4,524,438		4.98	E	1.20	(3.78)
550 Zone	550	711	1.02	2.05	204,855	735,000		2,048,550		2.25	LH	3.00	0.75
E-1, E-2 Zone	565, 486	3,154	4.54	9.08	908,438	735,000		9,084,379		9.99	SLR, E1	3.20	(6.79)
Totals		13,914	20.04	40.07	4,007,170	4,965,00	0	40,071,700		44.08		40.45	(3.63)

<sup>&</sup>lt;sup>1</sup> Buildout demands based on SANDAG Series 13 Planned Land Use and Unit Demand Factors rounded up to the nearest 50. Projected demands represent increased demand density compared with existing demands.

 $AAD-average\ annual\ demand;\ MDD-maximum\ day\ demand;\ gpm-gallons\ per\ minute;\ MG-million\ gallons;\ MGD-million\ gallons\ per\ day$ 

 $<sup>^{2}</sup>$  MDD = 2 x ADD

Total = Operational + larger of Fire or Emergency Storage Criterial

Operational = 0.1 x MDD

Fire = Fire flow and duration per requirements in **Table 4-3**, including 2,500 gpm for 2 hours (300,000 gallons) in wild fire interface areas. Emergency = 2 x AAD

<sup>&</sup>lt;sup>4</sup> HP Reservoir volume, as rehabilitated in 2017.

# Attachment F

# Excerpt from San Luis Rey Indian Water Rights Settlement Agreement

Implementing Agreement Among Escondido, Vista, the Indian Water Authority, and La Jolla, Rincon, San Pasqual, Pauma and Pala Bands of Mission Indians

- 4(e) of the Federal Power Act [16 U.S.C. §797(e)] and under any other applicable law and that no other conditions are required or shall be imposed.
- 5.C. San Pasqual Undergrounding Project. The San Pasqual Undergrounding Project will remove, relocate, and replace with an underground pipeline most or all of that portion of the Escondido Canal and its appurtenant structures, facilities, and rights-of-way that currently occupy land within the San Pasqual Reservation. The San Pasqual Undergrounding Project includes reclamation of the land occupied by the replaced canal by means of demolition, debris removal, grading, and reestablishment of drainage, as well as any associated mitigation of environmental impacts that may be required.
- 5.C.1. <u>Local Entities to Implement</u>. Escondido and Vista shall be jointly responsible for implementing the San Pasqual Undergrounding Project, the cost of which will be equally divided between them.
- 5.C.2. <u>Cooperation by San Pasqual and Grant of Easement</u>. San Pasqual will cooperate with and support Escondido and Vista in the implementation of the San Pasqual Undergrounding Project. In addition, San Pasqual will consent to the grant of an easement for the portion of the San Pasqual Undergrounding Project that will occupy San Pasqual Reservation land. There will be no charge for the easement.
- 5.C.3. Local Entities to Provide Access. In order to provide San Pasqual access to Local Exchange Water from the San Pasqual Undergrounding Project, during construction of the San Pasqual Undergrounding Project Escondido and Vista will install at their expense four stub sections of pipeline capped with blind flanges. The location of the four stub sections will be determined by San Pasqual in consultation with the Local Entities. In addition, San Pasqual will otherwise be provided access to Local Exchange Water from the Escondido Canal and the San Pasqual Undergrounding Project pipeline south of the northern boundary of the San Pasqual Reservation pursuant to the terms of this Agreement.
- 5.C.4. <u>Schedule for Completion of Project and Remedies</u>. Subject to Uncontrollable Force, the Local Entities shall implement the San Pasqual Undergrounding

Implementing Agreement Among Escondido, Vista, the Indian Water Authority, and La Jolla, Rincon, San Pasqual, Pauma and Pala Bands of Mission Indians

Project in good faith and with reasonable diligence. The Local Entities shall use their best efforts to complete the San Pasqual Undergrounding Project not later than six years from the Effective Date. If the Local Entities have not completed the San Pasqual Undergrounding Project within six years of the Effective Date, and to the extent that they have not been impaired by Uncontrollable Force, the Local Entities agree to compensate San Pasqual at the rate of \$1,000 per day from the expiration of the six-year deadline. Upon completion of the San Pasqual Undergrounding Project, no further charges shall be paid by the Local Entities to San Pasqual.

- 5.D. Indian Water Authority to Receive Parker-Davis Benefits for First 20 Years. The Indian Water Authority is entitled to all of the economic benefits from the initial 20 year allotment of Parker-Davis power from the Western Area Power Administration commencing October 1, 2008. Subsequent to the Effective Date, these economic benefits will be used for water supply, quality, infrastructure and other water-related operations and improvements.
- 5.D.1. Allocation of Parker-Davis Benefits After the First 20 Years. At the end of the initial 20 year term, the Indian Water Authority, the Bands, Escondido and Vista will jointly apply in good faith for a renewal of the Parker-Davis allotment. Whatever allotment is obtained, the economic benefits will be divided 50% to the Indian Water Authority and Bands, 25% to Escondido, and 25% to Vista. The Indian Water Authority will use its and the Bands' share of the economic benefits for water supply, quality, infrastructure and other water-related operations and improvements and Escondido and Vista will each use their shares of the economic benefits for the Local Water System. In addition to this joint application for Parker-Davis power, each Party may make and pursue its own separate application(s) for any other allotments of Parker-Davis power after the initial 20 year allotment that commences October 1, 2008. This section 5.D.1 shall not apply if and when the Local Entities exercise their right under Article XI to discontinue their responsibility to operate the Local Water System.

# **Attachment G**

# **Capital Assets Current Value**

# **Annual ENR cost Tier 1 Rate**

Total All

Туре	Annual Cost			
Bldg	970,972			
Canals	380,262			
Const	356,268			
Copiers	7,026			
Dam	1,067,362			
Filt Plant	819,423			
IT	118,860			
Land				
Misc	116,708			
Pipe	3,886,379			
Pipe Contr	1,905,077			
Pump Sta	109,779			
Reg Sta	100,534			
Res	671,692			
SCADA	57,526			
Trt Plant	60,974			
Trucks	565,722			
Valves	13,088			
Vehicles	37,522			
Total	11,245,174			
Assess I FND and Time 2 Date				
Annual ENR cost Tier 2 Rate				
Туре	Annual Cost			
Wells	621,449			
Flume	1,064,160			
Pechstein II New	300,000			
Tier 2 additional	1,985,609			

13,230,783

# Attachment H

# Executive Summary from Warner Valley Basin Groundwater Flow Model Development and Calibration

# **Executive Summary**

Vista Irrigation District (District) is the largest landowner and water user in the Warner Valley Groundwater Basin (Basin), located in the interior mountains of northern San Diego County (Figure 1). The District also owns and operates Lake Henshaw Dam and Reservoir at the downgradient end of the Basin. Groundwater interacts with Lake Henshaw by two pathways: 1) a direct hydraulic connection between groundwater and the lake across the lakebed, and 2) discharge from tens of wells that the District operates in the Basin and pumps into the lake to supplement water supply releases. Those releases serve customers in the District's service area, the City of Escondido (City), the Rincon Band of Mission Indians, and other smaller users along the San Luis Rey River.

The District and the City initiated this study of Warner Basin groundwater to improve estimates of existing and potential future yield and to evaluate the effects of proposed increases in pumping by the other major Basin user, Warner Springs Ranch Resort (WSRR). The scope of the investigation included an updated analysis of Basin hydrogeology, development of a numerical groundwater flow model, and simulation of scenarios including climate change, increased WSRR pumping and increased District pumping.

# **Major Findings**

The sustainable yield of the Basin was investigated relative to the record historical drought period of 1945 through 1977, followed by the recovery period 1978 through 1986. District pumping began in 1953, and average pumping through 1986 was 7,604 acre-feet per year (AFY). Modelling demonstrated that pumping could have been increased by at least 20 percent (to 9,125 AFY) and still allowed groundwater levels to fully recover (although not until 1998 in some locations). For this study, sustainability is defined by complete water-level recovery between droughts. The simulation assumed that existing wells would be capable of producing the same amount of water at water levels up to 60 feet below historical minimums. This is not the case. Obtaining the additional yield and optimizing the use of groundwater storage would require additional wells, different pumps and an evaluation of alternative pumping locations that minimize well interference. Additional factors that would need to be considered include the capacity of the wellfield water conveyance system (ditches and siphons) and any concurrent changes in the operation of Lake Henshaw.

Modeling the interaction of pumping within WSRR with yield within the District area shows that an increase in consumptive use within the WSRR area caused an equal decrease in the conjunctive use yield available to the District. The limiting factor for sustainable yield available to WSRR during the drought of record was not storage recovery, but limited storage due to the relatively small basin thickness near WSRR. The model showed that WSRR consumptive use could successfully be increased to 1,100 AFY. Higher rates caused model cells to go dry, even when additional wells were introduced to spread the pumping stress over a broader area. Although dry cells are partly an artifact of model layering, they correctly reflect the real concern that insufficient saturated thickness could constrain yield during droughts.

# Model Development

Basic data were compiled and reviewed for the study. Four different delineations of Basin boundaries have been previously published, for different purposes. Two geologically-based delineations from the 1960s were deemed most suitable for the modeling work, and minor differences between them were reconciled into a new boundary delineation. Previously published contour maps of average annual rainfall were similarly found to have substantial discrepancies. One was selected as most consistent with data from the two long-term stations in the Basin, and minor adjustments were also implemented to improve model calibration. Other basic data included geologic and geophysical logs from wells and boreholes, pumping and water levels from District wells, operations data for Lake Henshaw, and long-term stream flow records for gages on two streams that enter the Basin.

Geologic and geophysical data were imported to a geospatial database that supported preparation of seven cross sections that crossed the Basin along various alignments. The cross-sections confirmed that Basin fill deposits are generally coarse-grained without regional confining layers and that faults divide the Basin into blocks with variable depths to bedrock. Basin thickness is greatest at a down-dropped block in the south-central part of the Basin, where it exceeds 900 feet. Of the roughly ten identified faults crossing the Basin, several have demonstrable effects on groundwater levels.

Hydrologic modeling included rainfall, soil moisture, runoff, stream flow and groundwater processes over the entire watershed tributary to Lake Henshaw, including the Basin and upland areas. A 78-year simulation period of water years 1939-2016 was selected for analysis in order to include the prolonged dry period from 1945-1977. Surface hydrology was simulated on a daily basis.

The groundwater flow model used the MODFLOW 2005 software developed by the U.S. Geological Survey (USGS). The model grid contains three layers and in plan view is divided into uniform 1,000 x 1,000 foot cells. The topmost layer covers the entire Basin area. Layers 2 and 3 are progressively smaller, active only in the deeper parts of the Basin. Where the Basin is sufficiently thick that two or three layers are active, the bottom of layer 1 was set at an elevation approximately equal to the lowest historical water levels to prevent cells from going dry during the calibration simulation.

The groundwater model dynamically simulates flow between streams and groundwater based on the width and permeability of stream channels and the relative difference between the water level in the stream and the adjacent water table elevation. Stream flow is routed from reach to reach (one reach per model cell) from the peripheral boundaries of the Basin to Lake Henshaw. Lake Henshaw was similarly simulated as a surface water body hydraulically coupled to streams and groundwater.

Model parameters were calibrated to achieve reasonable similarity between measured and simulated historical groundwater levels, lake levels and stream flow.

The potential effect of climate change was investigated by running the 1939-2016 calibration simulation with adjustments to reflect future climatic conditions. Monthly factors for adjusting rainfall and reference evapotranspiration were taken from figures developed by the California Department of Water Resources (DWR) by down-scaling global circulation models for the year 2070. The results showed small changes in the groundwater balance and water levels. Relative to the future baseline scenario, groundwater elevations at almost all wells in almost all stress periods changed by less than 2 feet. Overall, the analysis concludes that, while climate change is expected to bring higher evapotranspiration rates and more intense drought and storm cycles, the net effect on sustainable yield in the Warner Basin is expected to be small into the foreseeable future.

An estimate of groundwater yield available to WSRR was obtained by defining a subarea of the Basin around WSRR and calculating the water balance within the subarea with existing amounts of WSRR pumping and hypothetical increases in pumping. Increases in pumping were distributed among existing WSRR wells and two additional hypothetical WSRR wells in such a way that drawdown was relatively uniform throughout the WSRR area. When pumping was increased from the baseline rate of 405 AFY to 1,100 AFY, water level declines during droughts were greater by as much as 40 feet at some WSRR wells but recovered rapidly during wet periods. The increase in pumping by WSRR decreased yield in the rest of the Basin by an equal amount via reductions in groundwater outflow from the WSRR area and changes in stream flow gains and losses.

A simulation in which District pumping was increased by 20 percent over historical amounts during 1953-1995 lowered the minimum water levels (in 1977) by 60 feet in the main District well field, decreasing to 10 feet at distant District wells. Recovery was complete by 1986 in the main well field but not until 1998 in some areas.

District yield could also be increased by maintaining a lower average elevation of Lake Henshaw. A simulation in which the average elevation of Lake Henshaw was decreased by 7 feet increased yield by approximately 2,750 AFY from reduced evaporation losses and by an additional 260 AFY from reduced spill volumes. The District's ability to maintain Lake Henshaw at these lower levels, however, will depend on the wellfield's capacity to increase production during the summer delivery season and possible reoperation of water treatment and delivery infrastructure downstream of the lake.

# **Attachment I**

**Waer Supply Planning Study** 



# AGENDA SPECIAL MEETING OF THE BOARD OF DIRECTORS WEDNESDAY, MARCH 11, 2020 – 9:00 AM

1391 Engineer Street, Vista, CA 92081

Phone: (760) 597-3100

In compliance with the Americans with Disabilities Act, if special assistance is needed to participate in the Board meeting, please contact the Board Secretary during regular business hours at (760) 597-3128. Notification received 48 hours before the meeting will enable the District to make reasonable accommodations.

- 1. CALL TO ORDER
- 2. ROLL CALL DETERMINATION OF QUORUM
- 3. PLEDGE OF ALLEGIANCE
- 4. CONSIDER APPROVAL OF AGENDA

The Board may take action on any item appearing on the agenda.

#### 5. ORAL COMMUNICATIONS

Members of the public may address the Board on items not appearing on the posted agenda, which are within the subject matter jurisdiction of the Board. Speakers are asked to limit their comments to five (5) minutes; the total time allowable for all public comment on items not appearing on the agenda at any one meeting may be limited. Comments on items listed on the agenda will be taken before or during discussion of the agenda item. Members of the public desiring to address the Board are asked to complete a speaker's slip available on the table near the entrance of the Boardroom and present it to the Board Secretary prior to the meeting.

# 6. WATER SUPPLY PLANNING STUDY

Recommendation: Conduct Water Supply Planning Study workshop.

# 7. COMMENTS BY DIRECTORS

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.

#### 8. COMMENTS BY GENERAL MANAGER

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

# 9. ADJOURNMENT

Date: February 27, 2020

- The agenda package and materials related to an agenda item submitted after the packet's distribution to the Board, are available for public review in the lobby of the District office during normal business hours.
- Agendas and minutes are available at www.vidwater.org.
- VID Board meetings are generally held on the first and third Wednesday of each month.

# AFFIDAVIT OF POSTING

I, Lisa R. Soto, Board Secretary of the Vista Irrigation District, hereby certify that I posted a copy of the foregoing agenda in the lobby of the District office at 1391 Engineer Street, Vista, California at least 24 hours prior to the meeting, in accordance with Govt. Code Sec. 54956.

Lisa R. Soto, Board Secretary



**STAFF REPORT** 

Agenda Item: 6

Board Meeting Date: March 11, 2020
Prepared By: Randy Whitmann
Approved By: Brett Hodgkiss

SUBJECT: WATER SUPPLY PLANNING STUDY

<u>RECOMMENDATION</u>: Conduct Water Supply Planning Study workshop.

<u>PRIOR BOARD ACTION</u>: On April 18, 2019, the Board participated in the first workshop to review and reach preliminary consensus on the project objectives, evaluation criteria and 'long-list' of alternatives to advance to a course screening analysis. On August 8, 2019, the Board participated in the second workshop to review the preliminary results of the course screening analysis and provide input on the recommended 'short-list' of alternatives to advance to the final fine screening process.

<u>FISCAL IMPACT</u>: Flume replacement is estimated to cost \$120,000,000 and be the least costly water supply alternative for the District. The cost comparison in the study is as follows:

	First-Year	30-Year Present-
Option	Unit Cost	Worth Cost
To Flume	\$2,000/acre-foot	\$240 million
Not To Flume	\$2,200/acre-foot	\$350 million

<u>SUMMARY</u>: The District maintains capacity rights from two sources, raw water treated at the Escondido-Vista Water Treatment Plant (EVWTP) located at Lake Dixon and multiple treated water connections along the San Diego County Water Authority's aqueducts. To reduce costs, the District typically maximizes the locally treated water supply at EVWTP and relies on the 11-mile Flume for conveyance into the District. During a planned 10-day shutdown along the Second Aqueduct, the District is dependent on the Flume. With the Flume approaching its useful life, completing the Water Supply Planning Study will evaluate replacing the Flume and other potential alternatives.

<u>DETAILED REPORT</u>: The Water Supply Planning Study is designed to support a decision by the District as to the future of the Flume. Many factors weigh in the comparison of alternatives. The evaluation of alternatives related to replacing the Flume will seek to account for the full current and future cost of the District's local water supply operation as well as the benefits to the District afforded by access to and management of its own local water supply. Likewise, the analysis of alternatives related to retiring the Flume altogether will seek to account for the current and future costs of purchasing additional imported water, the possible need for additional treated water storage and/or other delivery reliability improvements, the future of the Boot and Bennett areas, and options to exchange the District's local water. The comparison of alternatives and the selection of a preferred alternative is guided by criteria of costs, reliability, water quality, environmental protection, existing water supply obligations and assets, and other factors.

The attached review package summarizes the final fine screening analysis performed on the 'short-list' of alternatives; the workshop will afford the Board the opportunity to provide input on the findings and select a preferred project alternative for implementation.

**ATTACHMENTS**: Workshop Agenda and Reference Materials

## **AGENDA**

## VID Water Supply Planning Study

## Board Planning Workshop No. 3 Fine Screening: Findings, Recommendations, and Next Steps

9:00 a.m. Wednesday March 11, 2020 VID Offices

## **PURPOSE:**

- Review results of Fine Screening, with an emphasis on what has changed from Coarse Screening
- Review project recommendations and Next Steps for project implementation

## **AGENDA**:

- 1) INTRODUCTION
  - a. <u>Summary</u>: Why the balance tips To Flume, and what that means for the District
  - b. Refresher: Study overview and highlights of Board Workshops 1 and 2
  - c. Workshop purpose
- 2) FINE SCREENING FINDINGS
  - a. Box 3: Raw Water System and Treatment
  - b. Box 4: Local Water Exchange Options
  - c. Box 2: System Improvements / Boot and Bennett
  - d. Box 1: Flume Rehab/Replacement Findings
  - e. Initial Conclusions
  - f. Sensitivity Analysis
  - g. Variables and scenarios that alter the balance scale
- 3) NEXT STEPS FOR PROJECT ADVANCEMENT
  - a. Next Steps for Not To Flume option
  - b. Next Steps for To Flume option
  - c. Offramps and Opportunities
- 4) ACTION ITEMS
- 5) ADJOURNMENT



## Water Supply Planning Study

# Workshop No. 3 Briefing Document – FINE SCREENING

February 2020





## Water Supply Planning Study

# Workshop No. 3 Briefing Document – FINE SCREENING

February 2020

## Prepared by:



In association with:







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**Hoch Consulting** 

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**Thank you also** to the following for providing valuable data and information for use in the Study:

### City of Escondido (Escondido):

Chris McKinney, Lori Roundtree, Angela Morrow, Reed Harlan, Darren Southworth

#### Rincon del Diablo Municipal Water District (Rincon del Diablo):

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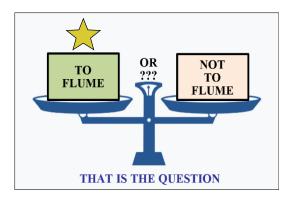
## 1. Overview / Introduction

## **Summary**:

- **To Flume Ascendant:** At the Fine-Screening level of assessment, the balance scale tips in favor of the To Flume option. This is true even though the option will entail a capital investment on the order of \$120 million.
- Board Workshop No. 3: The workshop will review the key findings of Fine Screening, and explore the sensitivity of the findings to assumptions about current and future conditions.
- Next Steps: Should the District elect to proceed with the To Flume option, its next steps would be to undertake a detailed alignment investigation, environmental documentation, and financial planning.

## 1.1. The balance scale tips in favor of To Flume.

At the conclusion of the fine-screening level of review, the Flume balance scale, which had been relatively even at the end of coarse screening, now tips in favor of the **To Flume option.** Considering present-worth costs over the next 30 years and beyond, the To Flume option achieves cost savings of more than 30 percent in comparison to the Not To Flume option and also scores favorably on non-cost evaluation factors. We'll provide more detail in the body of this document, but here are a few summary points to keep in mind:



- **Significant capital investment required:** The finding in favor of To Flume holds even though the option entails a capital investment on the order of \$120 million. Costs for the Not To Flume option, driven in large part by the need to purchase additional water from the Water Authority at progressively increasing rates, are even higher.
- The finding is sensitive to assumptions: The balance scale is sensitive to many project variables for which a change in assumptions could tip the outcome. We'll review the most significant of those sensitivities with you later in the document.
- Next Steps, Commitments, and Offramps: The District's next steps will be to undertake advanced planning for either a Flume Replacement Project (To Flume) or retirement of the Flume and a transition to full reliance on Water Authority deliveries (Not To Flume). Should that work identify costs or conditions different than presented here, the District will have the option at that time to revisit and refine the direction as appropriate.

## 1.2. Here is a summary of what has changed subsequent to the previous round of review.

## **Fine-Screening Key Changes and Updates**

Topic	Change / Update	Significance
Long-Term Financial Analysis	<ul> <li>Thirty-Year Cost Analysis: In addition to examining the First-Year costs of each option, the analysis now presents a 30-Year net-present-value cost review.</li> <li>Differences in Cost Escalation Rates: The 30-year review accounts for differences in cost escalation rates. 30-year financing of a Flume Replacement project would utilize level payments that do not increase over time. In comparison, we project Water Authority rates will escalate at a rate faster than inflation.</li> <li>Interest Rates: We have researched the availability of State and Federal low-interest loans, and concluded a Flume Replacement Project would be a likely recipient, thereby lowering the District's cost of capital.</li> </ul>	The changes provide a more complete picture of the District's long-term costs for each option. This accounting is to the significant advantage of the To Flume option.
Local Water System (Box 3)	Confirmation of Approach: We have consulted with a national level Asset Management expert relative to budgeting approaches, a national dam expert relative to long-term cost exposure at Henshaw Dam, and with Escondido's Canal Maintenance Superintendent relative to long-term maintenance of the Escondido Canal.	The additional reviews have provided overall confirmation of our budgeting approach. Costs have increased, but not significantly.
Local Water Exchange Options (Box 4)	has determined the Settlement Agreement restricts the list of eligible exchange partners, leaving Escondido as the	
System Improvements (Box 2)	Incorporation of Pumping Cost Savings: The analysis now includes the pumping cost savings the District would realize with the Not To Flume option.	Provides a modest cost credit to the Not To Flume option
Flume Replacement Options (Box 1)	Hybrid Alignment Lengthened / All-New Alignment     Appears Preferred: We reconfigured the Hybrid     alignment, including bypassing the Borden bench, adding     length and cost to the alignment. At this conceptual level     of review, an All-New alignment now appears preferred.     Actual alignment determination would be made as part of     a subsequent Alignment Study and Environmental     Documentation process.      Confirmation of Costs and Use of Welded Steel Pipe: We     undertook additional review of pipeline costs and pipe     materials, and confirmed the use of welded-steel as the     most appropriate pipe material as a basis for our planning-     level cost estimates of the project.	Cost estimates for a Flume Replacement project remain relatively unchanged, at approximately \$120 million.

1.3. <u>Refresher</u>: The primary goal of the project is to answer the To Flume or Not To Flume question. The evaluation criteria in play mirror the District's mission statement (economy, reliability, quality), and the long-list of initial alternatives is comprehensive.

### **BACKGROUND AND OVERVIEW**

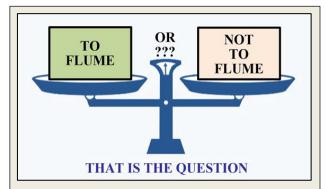
The Vista Flume (Flume) is nearing the end of its functional service life. The Flume is an integral component of the District's water supply system, providing for delivery of the District's historical rights to water from the San Luis Rey River to the District service area. Local water is blended with raw imported water and treated at the Escondido-Vista Water Treatment Plant (EVWTP), where it feeds the Flume.

The capital investment needed to replace or rehabilitate the Flume will be significant. Accordingly, prior to making an investment decision, the District wishes to weigh carefully the merits of investing in the Flume against the merits of other water supply alternatives, including that of retiring the Flume altogether and relying on deliveries from the Water Authority in its place. To support its decision, the District is conducting the Water Supply Planning Study to develop an objective and complete evaluation and comparison of alternatives.

#### PROJECT OBJECTIVES

The goals of the study are as follows:

- 1) Alternatives Evaluation (To Flume or Not To Flume): Identify and evaluate alternatives for rehabilitating or replacing the Flume, and weigh these against alternatives for retiring the Flume, including options for exchanging the District's local water.
- 2) **Decision Support:** Provide analysis and recommendations that are clear, complete, and objective, and conduct planning workshops with District staff and the Board to facilitate project understanding and support the District's decision process.



The overarching question. The principal goal of the Water Supply Study is to weigh the alternatives and answer the question, and to do so based on analysis that is clear, complete, and trusted.

#### **EVALUATION CRITERIA**

The study will weigh both cost and non-cost factors of the To Flume and Not To Flume alternatives. Costs will be a significant driver of preferences, but non-cost factors of service reliability and operational flexibility, water quality, environmental protection, agency relationships, and other factors will weigh on the balance scale. Evaluation criteria established at the beginning are subject to refinement as the study progresses. Non-cost criteria are summarized in the graphic below.

NON-COST CRITERIA	Dra	aft Scoring Rubric:
Maximize Service Reliability and Operational Effectiveness	00	Significantly Preferred / Advantageous
Minimize Environmental Impacts /	0	Preferred / Advantageous
Protect Environmental Resources	O	Constrained / Not Preferred
Maximize Implementability	00	Significantly Disadvantaged / Potential Fatal Flaw
Intrinsic Values	<b>=</b>	Neutral / Meets objectives

Many of the non-cost factors can be at least partially equalized between alternatives with additional costs. For example, the potentially negative service reliability aspects of a Not To Flume alternative, in which the District would no longer be largely immune from the effects of Water Authority treated water aqueduct shutdowns, can be mostly overcome with capital and operational expenditures to provide additional treated water storage or other reliability enhancements. This has the consequence of raising the profile of costs as an evaluation factor.

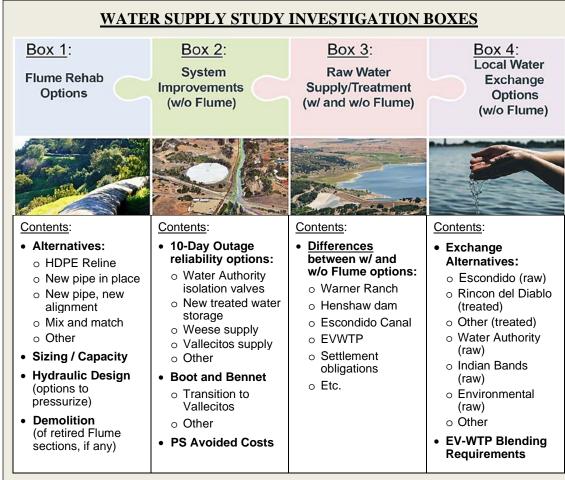
### LONG-LIST ALTERNATIVES

The list of alternatives is summarized in the Investigation Box graphic in **Section 1.4.** At Workshop No. 1, the Board asked that the long-list also include consideration of the following:

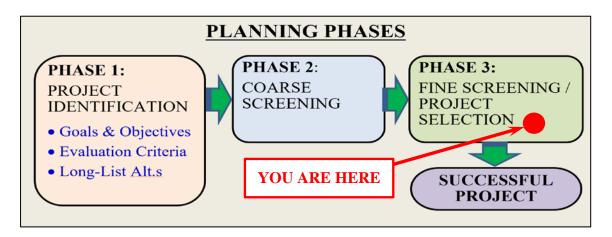
- Out-of-the-box, comprehensive, holistic consideration of possible project configurations and of possible deals and arrangements with other agencies, e.g. exchange with other member agencies or the Water Authority, exchange via groundwater recharge, etc.
- Adherence to the District's Mission Statement
- Careful consideration of the domino effect of a Not To Flume (e.g. cost of stranded assets, impact to other agencies, other uses for local supply, etc.)
- Consideration of alternative Flume capacities

These requests have been incorporated into the Coarse and Fine Screening reviews.

1.4. <u>Study Process</u>: The study is organized into four Investigation Boxes, and sequenced into three phases. Workshop No. 3 will review the results and recommendations of the final study phase, fine screening.



**Categorizing the issues / structuring the analysis.** The study contains more than the usual number of moving parts. To manage the complexity of the charge, the study has organized the analysis into four main Investigation Boxes as listed above.



## 1.5. <u>Water Authority water rates play a key role in the Study. Those</u> rates are likely to escalate faster than inflation.

The Water Authority's average "All-In" treated water rate for calendar year 2020 is \$1,686 per acre-foot (\$/AF), which for planning purposes we will round to an even \$1,700/AF. This price point provides a useful reference point for the Water Supply Planning Study as we evaluate the costs of other attributes of the District's long-term water supply options and the future of the Flume.

The Water Authority only projects future rates for a five-year forecast window; its most recent forecast for 2023 shows a low-band rate of approximately \$1,700/AF (as already reached), and a high-band rate of approximately \$2,200/AF.

Work being undertaken by study team member Ken Weinberg Water Resources Consulting is investigating long-term rate forecast scenarios on behalf of a group of Water Authority member agency managers and others. This work indicates that over the long-term, there is more upward pressure on Water Authority water rates than there is mitigating downward pressure. The largest upward pressure is the need to fund fixed costs, including the Water Authority's \$1.5 billion outstanding debt and its take-or-pay purchase commitments, on a base of reduced water sales.

## **Upward and Downward Pressures on Future Water Authority Rates**

Upward Rate Pressures (factors favoring higher annual rate increases)	Downward Rate Pressures (factors favoring more moderate annual rate increases)		
<ul> <li>Reduced sales due to conservation and local supply development</li> <li>Greater portion of total supply derived from most expensive sources, Desal and IID</li> <li>WaterFix and other MWD Capital Costs on Transportation rate component</li> <li>Increasing power costs</li> <li>Potential Salton Sea Mitigation cost greater that contractual Environmental Cap</li> <li>Low utilization of Twin Oaks Water Treatment Plant</li> </ul>	<ul> <li>IID Transfer purchase price could increase at rate less than CPI</li> <li>Costs for WaterFix, if implemented, allocated to RTS Charge and not all to Transportation</li> <li>MWD Treatment Surcharge appears to have stabilized</li> </ul>		

A preliminary finding of this work is that a reasonable mid-range forecast of Water Authority rates through 2045 shows those rates increasing at an average rate faster than base inflation. This would mean that on a current-dollar, inflation adjusted basis, the long-term average unit cost of Water Authority water is higher than the current \$1,700/AF rate.

The Water Authority Board has formed a Fiscal Sustainability Taskforce made up of Board members and member agency managers to better define and address the long range impact that these factors have on Water Authority costs and the rate structure's current ability to equitably manage these expected rate pressures. Metropolitan Water District of Southern California (MWD) has started a similar process as the same factors the Water Authority faces are being faced by MWD. The Water Authority expects its Fiscal Sustainability process to conclude before the end of the current fiscal year. That process should provide greater clarity to member agencies on where Water Authority water rates are trending in the long term.

For the fine screening review, we will utilize the following range of escalation assumptions:

## **Water Authority Rate Escalation Assumptions**

Scenario	Description
Low (Optimistic)	Rates escalate at 1.0% above water system inflation for next 5 years, thereafter at rate of inflation
Mid-Range	Rates escalate at 1.5% above water system inflation the next 10 years, thereafter at rate of inflation
High (Pessimistic)	Rates escalate at 2.5% above water system inflation for next 10 years, thereafter at rate of inflation

# 1.6. Market interest rates are already low. Project interest rates could be further lowered through State or Federal low-interest loan programs.

The economic comparison of the To Flume and Not To Flume options entails a comparison of merits of capital outlays with long-term annual costs. Equating these two, in terms of Net Present Values or Equivalent Annual Costs, is done based on an interest rate that reflects the District's cost of funds. Lower interest rates decrease the annual costs of capital financing and increase the present-worth value of future annual costs; higher interest rates do the opposite.

The prior coarse-screening review utilized the long-term (30 to 40 years) interest rates summarized in the table below:

### **District Finance Rates and Terms (Unaided)**

Scenario	Description	Interest Rate (%/yr)
Low (Optimistic)	Reflects continuation of low interest rates into the future	3.0
Mid-Range	I-Range Projected mid-range market conditions	
High (Pessimistic)	Less favorable market conditions	4.0

For the <u>fine-screening review</u>, we have expanded on the previous work by evaluating the project's potential to qualify for and receive low-interest financing through available State and/or Federal programs. The most likely sources for low-interest financing for the project are the State Water Resources Control Board's Drinking Water State Revolving Fund (DWSRF), and the Federal Water Infrastructure Financing Innovation Act (WIFIA) Credit Assistance Program, summarized below:

## **DWSRF and WIFIA Low-Interest Loan Program Summaries**

Program	Description	Interest Rate <sup>1</sup> (%/yr)	
DWSRF	<ul> <li>Credit assistance for drinking water infrastructure projects.</li> <li>Up to 100% funding available</li> <li>Up to 30-year loan repayment term</li> <li>Fixed interest rate set at 50% of the average interest rate paid by the State on general obligation bonds issued the prior year</li> <li>No interest payments during construction</li> </ul>		
WIFIA	<ul> <li>Credit assistance for water and wastewater systems.</li> <li>Up to 49% of total eligible project costs</li> <li>Up to 35-year loan repayment term</li> <li>Fixed interest rate tied to treasury securities rate for similar maturity date</li> </ul>	2.3	

<sup>1.</sup> Interest rates are as of January 2020, and are subject to change

Based on our review, we believe it reasonable to assume the project would be eligible for and would be likely to receive funding from one or both programs. We believe a reasonable mid-range assumption is that the project would be awarded a DWSRF loan covering 50 percent of the project's capital cost, effectively lowering the project's average cost of financing by a considerable margin<sup>1</sup>. Combining Optimistic, Mid-Range, and Pessimistic financial assistance assumptions with the previous market interest rate assumptions results in the following range of project finance rates (Weighted Average Cost of Capital).

## **Project Finance Rates and Terms Inclusive of Programs**

Scenario	Description	Melded Interest Rate (%/yr)
Low (Optimistic)	Low (Optimistic)  Reflects continuation of low interest rates into the future, and an optimistic assumption that the project would receive DWSRF funding covering 75% of project capital costs.	
Mid-Range	Reflects projected mid-range market interest rates, and a mid-range assumption that the project would receive DWSRF funding covering 50% of project capital costs.	2.5
High (Pessimistic)	Reflects less favorable market interest rate conditions, and a pessimistic assumption that the project would not be awarded any low-interest loans.	4.0

For the fine-screening analysis, we will use the mid-range adjusted rate of 2.5 percent, and an assumed finance period of 30 years. This results in a capital recovery factor (A/P) of 0.0478, meaning that every \$1 million in capital financed would incur an annual repayment of \$47,800 fixed over the 30-year repayment term.

Actual loan awards are subject to funding availability and to year-to-year variation in the level of competition for available funds, and there is no guarantee the project would be awarded financing.



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## 1.7. We assume most water system costs will inflate at the District's budgeted rate of 3.0 percent per year.

The rate of inflation of water system related costs will affect the economic comparison of the To Flume and Not To Flume options. For a mid-range assumption, we will use the rate used by the District in its budget projections, 3.0 percent per year. Water system cost inflation rates for use in the Study are summarized in the table below.

## **Water System Cost Inflation**

Scenario	Description	Inflation Rate (%/yr)	
Low (Optimistic)	Reflects a rate lower than that used by the District in its budget projections	2.0	
Mid-Range	The rate used by the District in its budget projections	3.0	
High (Pessimistic)	h (Pessimistic) Reflects a rate higher than that used by the District in its budget projections		

# 1.8. We estimate the long-term average annual yield of the system as currently operated is 5,000 acre-feet per year. The amount is important, and variable.

The delivery of local yield is the primary benefit of the Flume and the primary reason to consider capital investment in Flume rehabilitation or replacement. The average annual yield of the local water system is therefore a key study variable: higher yield averages would warrant additional capital investment, lower yields less.

The study team has worked with District staff to review historical system yields and adjust these to current conditions of District demands, local water blending requirements at EVWTP, terms of the San Luis Rey Indian Water Rights Settlement Agreement (Settlement Agreement), and other factors. Based on this review, we estimate the long-term average annual yield of the system, as currently operated, is 5,000 acre-feet per year (AF/yr). Probable long-term averages, for periods of 50 years and more, are summarized in the table below.

### **Local System Future Average Annual Yield**

Scenario	Scenario Description		
Low	Low Reflects dryer than historical average hydrology, and continuation of existing local water blend limits at the EVWTP		
Mid-Range Reflects current 60-year average hydrology (1960-2019), and continuation of existing local water blend limits at the EVWTP		5,000	
High	Reflects one or more of wetter than historical average hydrology, Warner Basin wellfield expansion, and relaxation of local water blend limits	6,500	

In addition to the yield range presented in the table, the historical record indicates system yield over shorter periods of even thirty years is subject to even wider ranges than in the table. The next thirty years could be a repeat of the driest 30-year period of record, or of the wettest. We'll review the risks and opportunities inherent in this at the upcoming board workshop.

## 1.9. Document Outline

The remainder of this briefing document is organized into the following five sections. Yes, the Investigation Boxes are out of order . . . bear with us, there's a method to our madness.

•	<b>SECTION 2:</b>	Local Water System (Box 3)	11
•	<b>SECTION 3:</b>	Local Water Exchange Options (Box 4)	15
•	<b>SECTION 4:</b>	System Improvements Without the Flume (Box 2)	18
•	<b>SECTION 5:</b>	Flume Replacement Options (Box 1)	22
•	<b>SECTION 6:</b>	Conclusions and Next Steps	32

## 2. Local Water System (Box 3)

## **Summary:**

- 1) Increased investment will be needed for long-term sustainability.
- 2) System costs on a dollars per acre-foot basis are approximately onehalf of the all-in Water Authority raw water cost.
- 3) Under a Not To Flume alternative, most of the District's system costs would continue unless another party assumed ownership.

# 2.1. Long-term sustainable maintenance and operations of the local water system will require additional investment beyond current budgeted levels of repair and replacement.

Over the long-term, sustaining the functionality of the local water system requires ongoing maintenance, repair, and sometimes replacement of system components. The District's current budget covers portions of what is needed in the long term, but has deferred some costs while the District was still engaged in negotiation of the Settlement Agreement, and while the District was uncertain as to the future of the Flume. Additional investment will be needed for long-term sustainability.



The study team has taken an Asset Management approach to budgeting for each component category of the system. Applying known conditions, industry experience, and professional judgement, the team has estimated three budgetary levels of investment: low, middle, and high (or optimistic, mid-range, and pessimistic). Some components, including the Escondido Canal, are budgeted for perpetual repair but not replacement; others for replacement on varying intervals. The resulting budgetary levels, inclusive of current budget items, and with accounting for cost-sharing arrangements with Escondido, are summarized in the table below.

### Annual Operation, Maintenance, Repair, and Replacement Costs (District Share)

Scenario	Well + Ditches	Henshaw Dam	Escondido Canal (EC)	S.P. Undergrounding <sup>1</sup>	Bear Valley	Other Budget <sup>2</sup>	Total
2019 Budget	\$554,000	\$214,000	\$375,000	\$20,000	Included with EC	\$459,000	\$1.6M
A) Low <sup>3</sup>	\$795,000	\$374,000	\$435,000	\$956,000	\$342,000	\$459,000	\$3.4M
B) Middle <sup>3</sup>	\$834,000	\$484,000	\$455,000	\$956,000	\$399,000	\$459,000	\$3.6M
C) High <sup>3</sup>	\$891,000	\$794,000	\$477,000	\$956,000	\$479,000	\$459,000	\$4.1M

- 1. The scenario costs assume the District's share of costs at \$20 million, financed over 30 years at i = 2.5%/yr
- 2. Includes costs not assigned to a facility such as buildings and grounds, legal services, consultants, and insurance
- 3. Total spending levels, inclusive of existing budget

The above costs are exclusive of Warner Ranch lease revenues. For this review, we have treated the District's ownership of the Ranch and the revenues it derives as independent of to the Flume or Not To Flume question.

# 2.2. The costs of the local water system, on a dollars per acre-foot basis, are modest in comparison to imported water costs, and appear affordable over the long term.

Assuming an average annual local yield of to the District of 5,000 AF/yr (see **Section 1.8**), the District's existing budget for the local system equates to approximately \$325/AF exclusive of treatment costs. The three asset management ranges increase this cost to a new total of between \$670 and \$810/AF, exclusive of treatment. Treatment costs at the EVWTP add approximately \$200/AF, \$250/AF for asset management scenario C. Equivalent unit costs are summarized in the table below.

### **Summary of Annual Cost Per Acre-Foot of Water Produced**

Scenario	Total Annual Cost	Average Yield (AF/yr)	Unit Cost Before Treatment	Average Treatment Cost	Unit Cost With Treatment
2019 Budget	\$1,622,000	5,000	\$325	\$200/AF	\$535/AF
A) Low	\$3,361,000	5,000	\$670	\$200/AF	\$870/AF
B) Middle	\$3,587,000	5,000	\$720	\$200/AF	\$920/AF
C) High	\$4,056,000	5,000	\$810	\$250/AF	\$1,060/AF

The Middle Range estimate with treatment of \$920/AF represents a 70 percent increase to existing budgeted spending levels. Nevertheless, viewed in comparison to current "All-In" Water Authority treated water rate of approximately \$1,700/AF, the local system costs are modest.

## 2.3. Opportunities to reduce the District's share of local system costs as part of a Not To Flume alternative are limited.

Under a Not To Flume option, the EVWTP volumetric treatment cost component might<sup>2</sup> drop from the tally, but most of the rest of the District's cost obligations for the local water system facilities would continue unless another party assumed ownership of the facilities. This arises in part from the terms of the Settlement Agreement, which requires the parties to operate the local water system as it has been historically, and to deliver water to the Indian Bands when requested. Also, because most of the ongoing costs are fixed, being independent of the volume of water produced and delivered, the mere reduction of the District's use of local water would not alter the costs.

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The District's continuing treatment cost obligations if it terminated the Water Filtration Plant Joint Powers Agreement are not clearly defined. Section 8 of the Agreement requires the District to pay 20 percent of the costs of future capital improvements, revisions, and replacements not undertaken to increase Plant capacity. Termination of the Agreement is by mutual consent, so it appears the obligations would be negotiated. We have assumed these negotiations would absolve the District from responsibility for future costs.

## 2.4. <u>Methodology Notes</u>: Different facilities require different budgeting approaches

The Study team evaluated the District's existing budget levels along with three asset management scenarios for replacing the well field, conveyance ditches, the Hellhole Siphon, and the Bear Valley conveyance facilities upstream of the EVWTP. Costs for the Henshaw Dam were estimated by an HDR national dam expert (HDR, 2019). Costs for the Escondido Canal were estimated by combining current repair budgets with estimated extraordinary expenses, and after thorough review with Escondido staff including the Canal team field superintendent. The San Pasqual Undergrounding project converts a portion of the Escondido Canal to a pipeline, as required by the Settlement Agreement.

As shown in the previous table, the District's existing annual investment is approximately \$1.6 million, while the three scenarios resulted in costs of between \$3.4 and \$4.1 million per year. The "Other Budget" column includes buildings and grounds, legal, consultant, and insurance costs in the District's 2019 Budget that were not assigned to a specific facility. This indicates the District should make additional investments in the system. The costs presented in **Section 2.1** are preliminary suggested budgets.

The table below lists the assumptions for the facilities and scenarios.

Scenario Well + **Henshaw Dam** Escondido San Pasqual Bear Valley **Ditches** Canal Undergrounding Conveyance A) Low 70 Years Budget \$150,000 \$20M, 30 yrs, 2.5% 70 Years 30% Replace B) Middle 60 Years \$300,000 \$20M, 30 yrs, 2.5% 60 Years \$20M, 30 yrs, 2.5% C) High 50 Years 100% Replace \$450,000 50 Years

Table 2: Summary of Assumed Replacement Frequencies and Added Costs

In general, Scenario A assumed all facilities are replaced in 70 years, Scenario B 60 years, and Scenario C, 50 years. The Henshaw Dam and appurtenances maintenance, repair, and replacement costs were estimated by HDR based on two reports by Findlay Engineering (2012, 2018) and costs for similar projects. The range of costs was developed based on the damage caused by low, moderate, or extreme earthquakes, floods, or other events. Given the Escondido Canal is generally excavated through rock on the side of a mountain, and through discussions with Escondido, the Canal will likely be maintained and repaired in its existing alignment and not replaced. However, additional budget is warranted to account for occasional extraordinary costs such as failures of sections or replacement of the Hellhole Siphon.

The Bear Valley conveyance facilities include the penstock, power plant, and conveyance facilities to the P1/P2 Pump Station at the headworks to the EVWTP. The cost of the Penstock was taken from the 2004 replacement project escalated to current costs. Cost of the Power Plant was taken from damages paid to Escondido in 1983 as a result of flooding.

Costs for the wellfield and ditches are shared by Escondido, which reimburses the District for 35.2 percent of these costs.

The following table summarizes the facility maintenance and replacement assumptions of asset management scenarios A, B, and C.

## Raw Water Facility Operation, Maintenance, Repair & Replacement Costs

	ASSET MANAGEMENT ASSUMPTION SETS (1) (Additional Costs Beyond Current Budget Levels)						
System Component	A) Low (Optimistic) Current + 70-Year Replacement + Historical Extraordinary	B) Middle Ground Current + 60-Year Replacement + Historical Extraordinary	C) High (Pessimistic) Current + 50-Year Replacement + Historical Extraordinary				
a) Well Field	Replace within 70 Years or 1 New Well per 4.4 Years	Replace within 60 Years or 1 New Well per 3.8 Years	Replace within 50 years or 1 New Well per 3.1 Years				
b) Ditches	Replace within 70 Years or 1,300 Feet per Year Average	Replace within 60 Years or 1,520 Feet per Year Average	Replace within 50 Years or 1,820 Feet per Year Average				
c) Henshaw Dam	Current Expenses	Current + 30% of Replacement Cost	Current + 100% of Replacement Cost				
d) Diversion Dam	\$50,000 Extraordinary Expense Every 5 Years	\$100,000 Extraordinary Expense Every 5 Years	\$150,000 Extraordinary Expense Every 5 Years				
e) Escondido Canal	\$150,000 Extraordinary Expense Every 20 Years	\$300,000 Extraordinary Expense Every 20 Years	\$450,000 Extraordinary Expense Every 20 Years				
f) Rincon Penstock	No District Responsibility	No District Responsibility	No District Responsibility				
g) Bear Valley Penstock	Replace within 70 Years	Replace within 60 Years	Replace within 50 Years				
h) Bear Valley Power Plant	Replace within 70 Years	Replace within 60 Years	Replace within 50 Years				
i) Conveyance to EVWTP	Replace within 70 Years	Replace within 60 Years	Replace within 50 Years				

<sup>(1)</sup> The age and condition of existing facilities vary. A typical life of 50 to 70 years for water facilities was assumed to develop a range of annual costs. Replacement costs for pipelines and wells are based on current cost to construct. Replacement costs for 1) Henshaw Dam based on the 1981 Buttress Cost, 2) Bear Valley Penstock based on the 2004 replacement cost, and 3) Bear Valley Power Plant based on the 1983 costs of damages from flooding. We have assumed the Escondido Canal would not be replaced but would be rehabilitated and repaired as needed.

## 3. Local Water Exchange Options (Box 4)

## **Summary:**

- The Settlement Agreement limits the list of possible exchange partners to the Agreement parties.
- It appears likely the District could strike a mutually beneficial exchange deal with Escondido, but Escondido would be able to utilize only a portion of the District's allocation.
- The net economic benefit to the District would cover only a portion of the District's local system costs, and would not generate any additional revenue to offset Flume replacement costs.

## 3.1. The Settlement Agreement effectively leaves Escondido as the District's only practicable exchange partner.

A key component of the Study's investigation of the Not To Flume option has been the evaluation of possible local water exchange agreements, under which the District would lease or exchange its allocation of local water to a partner agency. The Study's original scope of work presumed a long list of agencies with whom the District might be able to negotiate such an exchange agreement. We reported such during the Coarse Screening review, noting however that:



- the opportunities were constrained by the need for expensive conveyance facilities;
- none of the target agencies had been beating down our door to sign on; and
- Escondido appeared to be the most promising candidate.

Subsequent to the Coarse Screening review, the District has confirmed its position that the Settlement Agreement limits the use of local water to the sole and exclusive use of the Agreement parties. This constrains the list of potential exchange partners to Escondido and the Indian Bands. Because the Coarse Screening review had already determined that an exchange agreement with the Indian Bands was unlikely to generate revenue<sup>3</sup> for the District, this leaves Escondido as the only practicable exchange partner.

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The Settlement Agreement defines the Indian Bands' water entitlements and effectively removes any incentive for them to pay for such a transfer. The transfer is certainly possible, but not in a manner that would generate revenue for the District.

## 3.2. Opportunities exist for a win-win exchange agreement with Escondido.

Under a possible exchange agreement with Escondido, Escondido would purchase some or all of the District's allocation of local water at a price less than what it would pay for raw water from the Water Authority. The District in turn would benefit by selling its water at a price higher than its unit cost of the local water system. If the parties were to split the benefits, the District's sales price to Escondido would be as presented in the table below.

### **Local Water Purchase Agreement Sales Price Example**

	Description	Unit Cost
District Local System Costs	District mid-range costs for long-term operations, maintenance, and replacement of the local water system, per <b>Section 2.2</b>	\$720/AF
Water Authority Raw Water Purchases	Water Authority's All-In price for raw water, CY 2020. Escondido would avoid this cost for every acre-foot it purchased from the District.	\$1,400/AF
Possible Sales Price	The sales price could be set at the mid-point of the District's unit costs of the local system, and Escondido's avoided cost of Water Authority raw water purchases. This is just an example; actual price TBD.	\$1,060/AF

In early December of last year, the District sent a white paper to Escondido outlining the terms and benefits of a possible Local Water Purchase Agreement that could be implemented if the District were to proceed with the Not To Flume option. Subsequently, District staff met with Escondido staff to provide background on the Flume study, answer questions about the white paper, and explore Escondido's interest in advancing the development of a purchase agreement. The results of those discussions are summarized below:

- Need for Careful Review: Escondido staff advised that any agreement would be subject to considerable Escondido review, including legal review and careful evaluation of the costs and conceptual terms presented by the District.
- Schedule for Review: Escondido staff suggested the depth of review needed would require more time than available in advance of the Study's Workshop No. 3 Board meeting. Staff suggested the District proceed with its schedule using its best assumptions, and that should the District Board elect to pursue a Flume retirement option, the parties could then undertake further review and negotiations.
- **Prospect for Review:** Escondido staff advised that they were unable to offer an official Escondido position on the likelihood of an agreement, but noted that if in fact there were opportunities for Escondido to save money in the long-term, and without incurring exposure to new liabilities, then this seemed reasonable cause for Escondido to engage in good-faith review and negotiations with the District in pursuit of a deal.

In addition, Escondido noted that owing to the need to limit the blend of local water at the EVWTP to no more than 40 to 50 percent of total plant inflow, and owing to projected declines in its potable water demands, it was unlikely to be able to utilize the District's full allocation of local water. This reduces the net economic benefit available to the District, as described below.

# 3.3. The District's net economic benefits of an exchange agreement are limited by Escondido's inability to utilize all of the District's local water allocation.

As noted, the combination of local water blending requirements at the EVWTP, and Escondido's projected declining potable water demands, limits Escondido's ability to utilize the full amount of the District's local water allocation. Absent significant improvements in water quality at Lake Wohlford, or treatment capabilities at the EVWTP, or both, these limitations will result in Escondido being able to utilize at most approximately one-half of the District's allocation.

The table below summarizes our assessment of unit revenues available from an Escondido water purchase agreement. Our mid-range expectation is that an agreement would cover approximately 60 percent of the District's local water system costs. As described in **Section 2.2**, the District's mid-range unit cost for the local water system, exclusive of treatment costs, is approximately \$720/AF.

## **Water Purchase Agreement Revenue Projections**

Scenario	Description	Unit Revenue <sup>1</sup>
Low (Pessimistic)	<ul> <li>Escondido average annual utilization: 1,500 AF/yr.</li> <li>Unit Purchase Price: mid-point between local water system costs and Water Authority rate, per Section 3.2.</li> </ul>	\$320/AF
Mid-Range	<ul> <li>Escondido average annual utilization: 2,000 AF/yr.</li> <li>Unit Purchase Price: mid-point between local water system costs and Water Authority rate, per Section 3.2.</li> </ul>	\$420/AF
High (Optimistic)	<ul> <li>Escondido average annual utilization: 2,500 AF/yr.</li> <li>Unit Purchase Price: mid-point between local water system costs and Water Authority rate, per Section 3.2.</li> </ul>	\$530/AF

<sup>1.</sup> Unit revenues are expressed on the basis of the District's full 5,000 AF/yr of average annual yield.

## 4. System Improvements Without Flume (Box 2)

## **Summary:**

For a Not To Flume option, the following findings apply:

- Delivery reliability concerns will be largely mitigated by a planned Water Authority isolation valve project, such that large volumes of new treated water storage will not be required.
- The Boot and Bennett areas would transfer to Vallecitos, with the District incurring significant annexation and capacity fees.

# 4.1. The delivery reliability consequences of a Not To Flume option will be largely (but not entirely) mitigated by a planned Water Authority isolation valve project.

During Water Authority aqueduct shutdowns, the District has always relied on the Flume to maintain full delivery reliability to the District service area. Retirement of the Flume would require compensating measures to maintain appropriate levels of delivery reliability.

The District's 2017 Master Plan identified possible compensating measures to maintain reliability with the Flume retired. Among the measures was the prospect of needing to construct up to 70 million gallons of new treated water storage, at a concept-level cost of up to \$100



million. Upon further review, the study team has determined that other alternatives identified in the Master Plan will be able to compensate for the loss of the Flume at much more modest costs.

The primary mitigation for the loss of the Flume will be the Water Authority's planned Aqueduct Isolation Valve Project. With the proposed valves in place, the Water Authority will be able to limit future scheduled treated water aqueduct shutdowns to one or the other of the two treated water aqueduct pipelines south of Twin Oaks, maintaining full service to the District.

Although the isolation valve project will provide mitigation for scheduled aqueduct shutdowns, it still leaves the District at a disadvantage during rare *unscheduled* outages resulting from aqueduct facility failures and other catastrophic events. In these situations, the District could be reliant on its treated water storage, its access to water from the Oceanside Weese Water Treatment Plant, and its interconnections with Vallecitos for periods of up to 10 days. To supplement these capabilities, the study team recommends the District upsize its planned Pechstein II reservoir by approximately 10 million gallons beyond the capacity it would otherwise build, at an additional cost of approximately \$15 million.

Delivery reliability compensation measures are summarized in the table below. The Water Authority isolation valve project is the linchpin of the package of mitigation measures. The other measures marked as "Included in Option" in the rightmost column are <u>supplemental</u> to the isolation valve project, to address unscheduled aqueduct outage scenarios not fully addressed by the isolation valve project. We recommend all measures so indicated be included as components of the Not To Flume option.

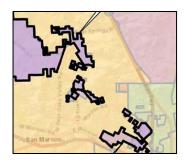
### **Delivery Reliability Compensation Measures (for Not To Flume Option)**

Option	Description	Included in Option?
Water Authority Aqueduct Isolation Valves <sup>1</sup>	Will allow Water Authority to operate the Twin Oaks Water Treatment Plant during a treated water shutdowns, with supply south continuing via one or the other of P3 and P4. This would immunize the District from the effects of scheduled treated water shutdowns.	Yes. Project had originally been planned for Water Authority 2020-21 budget cycle, but was deferred during budget review. The District should continue to monitor status and encourage timely project implementation.
District Treated Water Storage <sup>1</sup>	Build treated water storage to compensate for loss of Flume deliveries. Assuming Water Authority isolation valve project proceeds, need for additional treated water storage is modest. Assume 10 MG addition to District's planned Pechstein II reservoir.	Yes. Include 10 MG at cost to District of \$15M.
Oceanside Weese Water Treatment Plant <sup>1</sup>	The District can access up to 5 mgd by agreement, and likely more in an emergency.	Yes. If District selects Not To Flume option, it should consider updates and/or revisions to existing agreement.
Interagency Connections <sup>2</sup>	The District has emergency interties in place, the most significant being with Vallecitos. Availability to the District during a shortage or emergency would likely be limited by agencies prioritizing service to their own customers.	Yes. Additional arrangements unnecessary with above measures.
New Water Treatment Plant at Pechstein	The District would build a new water treatment plant adjacent to Pechstein, served by a new raw water connection to the Second Aqueduct. Reliability benefits beyond above measures would be minimal, as the same catastrophic events causing outages of the treated pipelines would also likely affect the raw water pipeline.	<b>No.</b> Project costs appear unwarranted assuming above measures in place.

- 1. The District's existing agreement with the City of Oceanside (Oceanside) provides the District access to up to 5 mgd of capacity from the Weese plant, but only on a surplus, "as-available" basis. Oceanside's projected usage of the plant indicates a high likelihood of surplus capacity remaining available for use by the District, but there remains the possibility Oceanside demands could increase or that the city could commit its surplus capacity to others (including the Rainbow Municipal Water District) through agreements. Additional capacity beyond the 5 mgd limit of the current agreement may be available during an emergency situation, but this is not guaranteed.
- 2. Vallecitos maintains considerable treated water storage reserves, and also has direct access to supply from the Water Authority's Carlsbad Seawater Desalination Facility. Vallecitos would naturally prioritize use of these assets for service to its own customers, but there could be emergency situations where a share of these assets could be made available to the District.

The full package of compensation measures would provide adequate delivery reliability safeguards for the District, although possibly not quite to the level of delivery redundancy provided by the Flume in combination with the District's treated water connections. This diminishment of delivery reliability is scored as a Non-Cost Evaluation Criteria factor later in **Section 6**.

# 4.2. The Boot and Bennett areas would transfer to Vallecitos, with the District incurring significant annexation, capacity, and infrastructure transfer fees.



The Boot and Bennett areas of the District service area are dependent on deliveries from the Flume, with backup service available from Vallecitos. Although in the District service area, these parcels are within the Local Area Formation Commission (LAFCO) designated sphere of influence of Vallecitos, meaning that LAFCO favors their eventual transfer to Vallecitos. In recent years, some parcels in the Boot area have annexed to Vallecitos at the behest of the parcel owners in order to obtain sewer service for planned development, and with all transfer costs paid by the

property owner. The District anticipates this trend will continue, with most of the Boot area eventually transferring to Vallecitos service at no cost to the District.

If the Flume were retired, the presumption is that the Boot and Bennett area reorganization process with LAFCO and Vallecitos would be accelerated, and that the District might incur significant costs for annexation, capacity, and infrastructure transfer fees.

District staff has conducted a high-level assessment of the situation, and conferred with the study team on their findings. Based on that preliminary review, the study will utilize the following cost range for the transfer:

#### **Boot and Bennett De-annexation Costs to District**

Scenario	Description	Cost			
Scenario	Description	Boot	Bennett	Total	
Low (Optimistic)	Vallecitos waives capacity and annexation fees, but District and Vallecitos split infrastructure transfer fees.	\$2M	\$4M	\$6M	
Mid-Range	Vallecitos and District split annexation, capacity, and infrastructure fees.	\$5M	\$12M	\$17M	
High (Pessimistic)	District pays full annexation, capacity, and infrastructure fees	\$9M	\$24M	\$33M	

The District has also considered the following two options for maintaining service to the Boot and Bennett areas:

- Extend District facilities: The District has determined that extension of District facilities to serve the areas independent of the Flume would be impractical to due cost and other factors. LAFCO has placed the areas within the Sphere of Influence of Vallecitos.
- Interagency Service Agreement with Vallecitos: The District has determined that permanent service to these areas by Vallecitos, while keeping the areas within the District, is unlikely due to Vallecitos disfavoring such an arrangement. Notwithstanding Vallecitos's stated position, this option has successful precedent elsewhere in the County of San Diego and staff still believes the option is worth keeping alive.

## 4.3. The Not To Flume option would reduce the District's pumping costs.

The existing Flume feeds the District's central storage reservoir, Pechstein, at a high water elevation of 837 feet (above sea level). During normal operations with the Flume in service, the District pumps water out of Pechstein to its 976 / 984 zone, which in turn feeds the 900 zone. This constitutes the bulk of the District's pumping, both by volume and by cost.

If the Flume were retired from service, as under the Not To Flume option, the District would replace deliveries from the Flume with increased purchases at its VID3 connection to Water Authority pipelines 3 and 4 in the Second Aqueduct. Water delivered at the VID3 connection can feed the District's 976 / 984 zone by gravity, substantially reducing the District's pumping costs. Pumping cost savings are summarized in the table below.

## **Summary of Avoided Pumping Costs (Not To Flume Option)**

Component	Description	Unit Cost Savings
Power	Based on recent historical operations, the District estimates it would reduce its pumping power consumption by approximately 765,000 kWh per year, which at an average total cost of \$0.17/kWh amounts to approximately \$130,000/yr of cost savings.	\$25/AF <sup>1</sup>
O&M	In addition to power costs, the District estimates it would realize other O&M cost savings of approximately \$80,000/yr.	\$15/AF <sup>1</sup>
Capital	The District estimates it would avoid approximately \$5M in future capital costs for pump station rehabilitation and replacement.	\$50/AF <sup>2</sup>
Total		\$90/AF

- 1. Unit revenues are expressed on the basis of the District's 5,000 AF/yr of average annual yield
- 2. Capital costs are amortized at 2.5 percent over 30 years (A/P = .0478), and converted to unit cost using the District's 5,000 AF/yr average annual yield of the local water system.

## 5. Flume Replacement Options (Box 1)

## **Summary**:

- Achieving a long-term Flume replacement will be an even larger and more expensive endeavor than previously thought. This is because:
  - Most of the bench sections cannot be economically rehabilitated or replaced in their existing easements.
  - The age of many of the siphon sections is such that they must be presumed to require structural rehabilitation or replacement over the 50-year planning horizon.
- An All-New option, entailing an entirely new pipeline in a new alignment, appears preferred both economically and operationally.
- Final decisions on the alignment of a Flume Replacement Project would be undertaken during a subsequent Alignment Study.

## 5.1. Rehabilitating/Replacing the Flume will require a substantial capital investment.

We wish we could report otherwise, but achieving a longterm Flume rehabilitation or replacement will be an expensive proposition for the District, perhaps representing its largest capital investment ever.

Previous cost estimates extrapolated from the MW Bench high-density polyethylene (HDPE) slip-lining project, the Baumgartner Bench replacement, and other data points to generate a construction cost range of 35 million to 75



million dollars. That analysis was predicated on two key assumptions: 1) that HDPE slip-lining would be found feasible for most of the bench sections, and 2) that the siphon sections would require new mortar lining but little additional work. Upon further review, and with consideration to the project objective of achieving a long-term Flume replacement, we find that both assumptions need to be abandoned. Further details are provided in the subsections that follow.

## 5.2. The existing concrete bench structures are unsuitable for reuse and will need to be demolished.

The concrete canals that make up the bench sections of the Flume were old and decaying the last time the District looked at them in 2012, and they are even older and more decayed now in 2020. Roof sections are structurally weak and separating from the sidewalls, floor sections are being

undercut by erosion, and whatever tiny amount of steel that was included in the original construction has corroded.





Not suitable for reuse. Left: Roof separation, Borden Bench; Right: Erosion under Daley Bench

The study team has consulted with structural engineers, condition assessment experts and District staff. Based on this review, our preliminary conclusion for coarse screening is that the bench structures have no reliable usable strength remaining, and are not suitable for reuse as part of a long-term Flume replacement project. The structures will need to be demolished.

# 5.3. Most of the bench section easements are so poorly suited for pipeline construction that it will be more economical to bypass them with pipelines in roads.

Even with the existing concrete bench structures unsuitable for reuse, the bench easements themselves provide a path for construction of a new pipeline. However, for many of the bench section easements, pipeline constructability is hampered by limited and difficult access, constrained working space, rock outcroppings, and other difficulties. For these sections, the study team has determined it will be more economical to vacate the existing easement and construct new pipeline in roads, bypassing the bench sections. For other bench sections the opposite holds, with pipeline construction within the existing easement preferred over available bypass routes.





**Challenging Construction Conditions.** Narrow access & tight bends on: <u>Left</u>: Tunnel Bench, and <u>Right</u>: Twin Oaks Bench

This mixing and matching of bench segments and bypasses gives rise to what we term the Hybrid alignment alternative. More on that in a minute.

Our preliminary constructability assessment of each bench section is summarized in the table below:

## **Bench Section Constructability Assessment Summary**

Bench*	Length (ft.)	Age (yrs.)	Constructability Notes	Use or Bypass?
Jack Creek	490	94	Assume aboveground pipeline due to rock conditions. Reach will be difficult to construct, but is short and achievable. Bypass route would add considerable distance.	Use
Tunnel	3,765	94	Difficult access and slope conditions with tight bends. A bypass spanning both Tunnel and Daley appears preferred.	Bypass
Daley	3,340	94	Difficult access and slope conditions with tight bends. A bypass spanning both Tunnel and Daley appears preferred.	Bypass
Kornhauser	1,325	94	Difficult access, from one side only. Bypass via future development preferred.	Bypass
Finkbinder	3,895	94	Tight bends. There is a preferred bypass route nearby. Use with above-grade piping could be an alternative.	Bypass
MD	3,275	94	Tight bends. There is a preferred bypass route nearby spanning both MD and Pearson benches.	Bypass
Pearson	370	94	Short reach. There is a preferred bypass route nearby spanning both MD and Pearson benches.	Bypass
Beehive	470	94	Easy access and short reach. Replace-in-place with buried pipe assumed.	Use
Borden	6,250	94	Use of the alignment may be possible, but would be constrained by habitat, easement width, and access issues. There is a feasible bypass route.	Bypass
Twin Oaks	4,975	94	Very difficult access and slope conditions with tight bends. Bypass is preferred.	Bypass
MW	2,115	9	No replacement or bypass needed. Bench was recently rehabbed with full structural solution.	Use
TOTALS	30,270			
Use	3,075		10 percent of total bench length	
Bypass	27,195		90 percent of total bench length	

<sup>\*</sup> See **Figure 1** for bench section locations

# 5.4. Over the long-term, most of the siphon sections may need to be structurally relined or replaced. Internal inspections may be needed to refine this analysis.

Concerning the siphons, we are faced with considerable unknowns. For the 90 percent of the siphon footage that is steel, we know the mortar lining needs to be replaced, and we know that cathodic protection reports have indicated favorable protection status. However, most of the lines

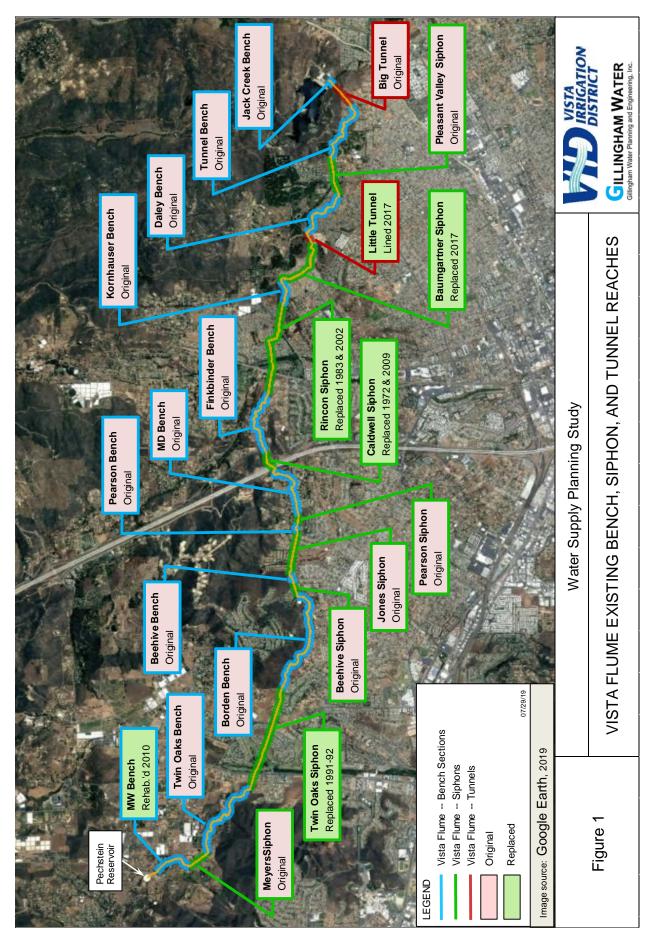
have never been subject to internal inspection, and we do not know the thickness of steel remaining, nor whether it has suffered corrosion pitting or other deterioration. Absent this level of thorough condition assessment, we are led to a conservative assumption that most of these sections will require replacement or structural relining over the 50-year planning horizon of the study. A thorough condition assessment, consisting of internal inspection using an electromagnetic measuring tool or similar non-destructive testing device, might produce results that supported a less conservative assessment, and hence a less costly estimate of Flume replacement.

Our preliminary assessment of each of the siphon sections is summarized in the table below.

## **Siphon Section Condition and Replacement Schedule Summary**

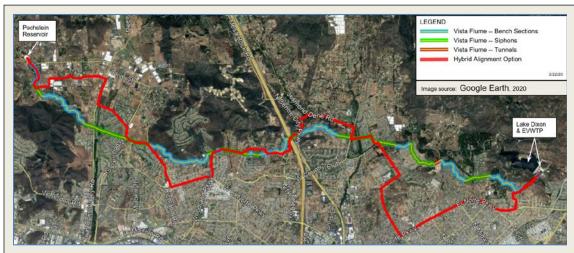
Siphon	Length (ft.)	Age (yrs.)	Material	Condition Notes	Replace?
Pleasant Valley	2,085	94	Steel	Age indicates probable need for structural relining or replacement. Replacement could be accomplished as part of bypass of Tunnel and Daley benches.	Yes
Baum- gartner	3,340	2	HDPE	Section recently replaced in new alignment during development. No further improvements needed.	No
Rincon	4,465	17	Steel	Recently replaced section. Subject to condition assessment review, no further improvements needed.	No
Kincon	900	94	Steel	Age indicates probable need for structural relining or replacement.	Yes
	555	10	PVC	PVC portion of this siphon recently replaced. No further improvements needed.	No
Caldwell	840	47	Steel	Subject to condition assessment review, replacement or structural rehabilitation assumed to be needed in future, but not urgent.	TBD
Pearson	600	94	Concrete	Age indicates probable need for structural relining or replacement. Replacement could be accomplished in conjunction with bypass of MD and Pearson benches.	Yes
Jones	2,370	64 and 94	Steel	Age indicates probable need for structural relining or replacement. A 660-ft portion would be replaced as part of bypass of the MD and Pearson benches.	Yes
Beehive	770	30	Concrete	Previous studies indicate replacement would be needed to accommodate pressurization.	Yes
Twin Oaks	5,745	27 and 94	Steel	Age indicates probable need for structural relining or replacement for all but the newer sections. All but 1,720-ft of siphon, including the more recently replaced sections, would be replaced as part of the Twin Oaks bench bypass.	Yes
Meyers	1,285	94	Concrete	Age indicates probable need for structural relining or replacement. Replacement for an 880-ft portion would be accomplished as part of the bypass of the Twin Oaks bench.	Yes
TOTALS	22,955				
Replace	13,755			60 percent of total siphon length	
Keep	8,360			36 percent of total siphon length	
TBD	840			4 percent of total siphon length	

<sup>\*</sup> See **Figure 1** for siphon section locations



## 5.5. A Hybrid alignment is possible, but likely not preferred.

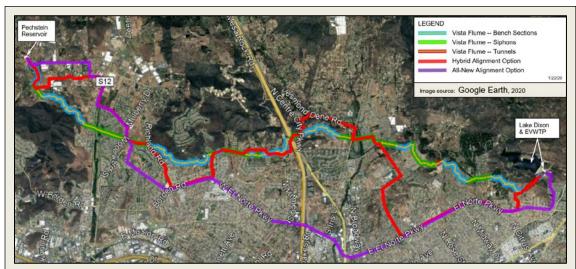
As reviewed above, project costs and other factors favor bypassing most reaches of the existing Flume alignment. Consequently, an alignment that sought to utilize as much of the existing Flume right-of-way and facilities as possible, which we dub a Hybrid alignment, would consist mostly of new bypass pipelines. A conceptual Hybrid alignment is illustrated in red in the figure below, and in **Figure 2** on the next page. All that zig-zagging around adds distance, and costs.



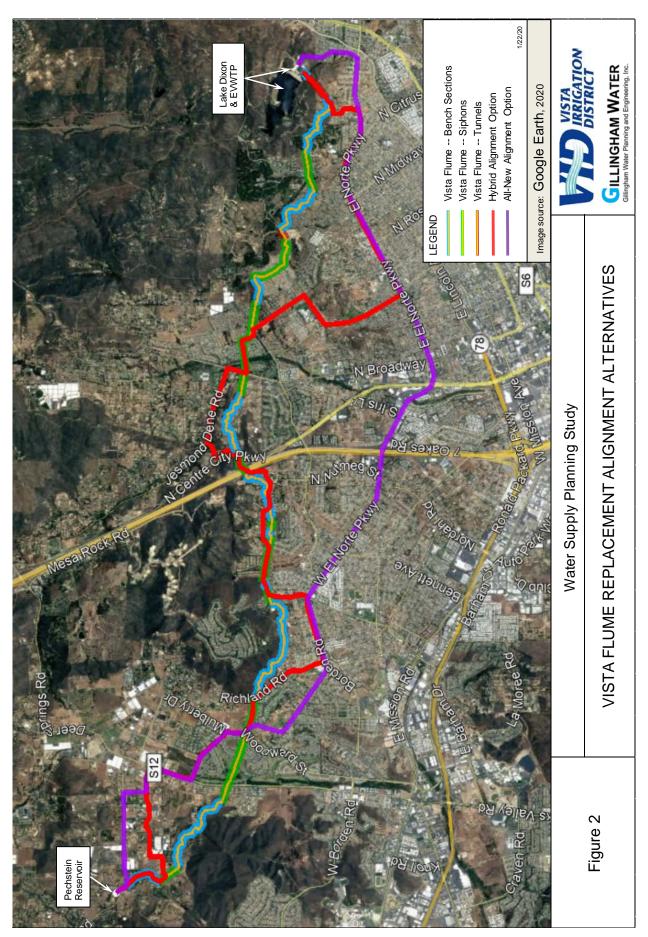
**Hybrid Alignment Option.** A conceptual Hybrid alignment (in red), mixing existing and new alignment reaches. appears the least-cost flume replacement alternative.

## 5.6. An All-New alignment appears economically preferred.

Although it may have seemed unlikely at the beginning of the Study, we now conclude that the most economical option for replacing the Flume will be an All-New alignment, consisting of pressurized pipeline in, or mostly in, public rights-of-way. A conceptual version of such an alignment is illustrated in purple in the figure below, and in **Figure 2** on the next page.



**All-New Alignment Option.** A conceptual All-New alignment (purple line) may be more expensive than a Hybrid alignment, but offers advantages that may warrant the additional cost.



## 5.7. An All-New alignment also provides water quality and security advantages.

The operation of the existing bench sections of the Flume is unpressurized. Industry practice favors the use of pressurized facilities for conveyance of treated water, so as to minimize the potential for intrusion of contaminants. The study team believes pressurization is a preferred component of a Flume replacement project. This factor favors the All-New alignment with its capability to provide full pressurization. The Hybrid alignment allows for some improvement in pressurization relative to existing operations, but to a lesser degree than the All-New option.

The District mitigates for its current unpressurized operation through the use of on-line monitoring of disinfectant residual. Residual is monitored at the start, mid-point (VID1), and terminus of the Flume. In the event monitoring detected a loss of residual, system operators would halt flow in the Flume and if necessary isolate Pechstein reservoir. The District system was reviewed and approved for permit renewal by the California Division of Drinking Water (DDW) in 2017, with no additional conditions being applied to operation of the Flume.

In the event the District elects to proceed with the To Flume option, the Study team recommends it coordinate with DDW during the Alignment Study phase of work to address these issues and ease the way for ultimate DDW approval of the project.

## 5.8. Pipeline sizing will maintain existing capacity.

The District estimates the current capacity of the Flume to be 21.5 mgd. A Flume replacement pipeline sized at 36-inches internal diameter would maintain and slightly increase that capacity, providing for delivery of up to 25 mgd as indicated in the table below. A larger pipe would provide additional but seldom needed capacity, at additional costs that exceed the modest value of the additional capacity. A smaller pipe would reduce project costs, but would also constrain the ability of the District to deliver local water during wet years.

Flume capacities at alternative pipeline diameters are summarized in the table below. The All-New alignment is shorter in length than the Hybrid alignment and as a result provides for slightly greater capacity at the same pipe diameter.

Pipeline Sizing and	d Delivery Capacity
---------------------	---------------------

Pipeline	Capa	acity <sup>1</sup>	
Internal Diameter	<b>Hybrid</b> (71,100 ft.)	<b>All-New</b> (58,900 ft.)	Discussion
Small – 30 in.	14 mgd	15 mgd	Undersized relative to District demands and wet-year yield of local water system, but would reduce capital costs.
Mid-Range – 36-in.	22 mgd	24 mgd	Approximately matches existing Flume capacity of 21.5 mgd. Provides adequate capacity for serving all but peak District demands, and provides sufficient capacity to fully utilize wet-year yields of the local water system.
Large – 42-in.	33 mgd	36 mgd	Oversized capacity provides modest benefits of operational flexibility, but incurs additional capital costs.

<sup>1.</sup> Calculations based on Hazen-Williams "C" factor (pipeline roughness coefficient) = 130, and available pipeline headloss = 130 ft. (978.5 ft. @ EVWTP filter effluent weir, less 837 ft. Pechstein HWL, less 9.5 ft. minor losses and flow control = 132 ft.) The resulting energy slope = 1.86 ft./1,000 ft. for the Hybrid alignment, and 2.24 ft./1,000 ft. for the All-New alignment.

## 5.9. Planning-level total project costs are approximately \$120 million. We have assumed the use of welded steel pipe.

The study team has engaged a group of professional cost estimators to generate preliminary opinions of probable construction and total project costs for both the All-New and Hybrid alignment alternatives. Our work has included analysis of recent San Diego area construction bid data for similar pipeline projects built under similar conditions. The bid data reflects real-world conditions and are inclusive of all construction contingencies including miscellaneous appurtenances, utility relocations, traffic control, trenching, and other conditions that would be expected to be encountered on a Flume replacement project.

Our preliminary estimate of project costs for the All-New alignment alternative is summarized in the table below.

## **Preliminary Concept-Level Capital Cost Estimates – All-New Alignment**

Item	Unit	Quantity	Unit Cost	Cost <sup>1</sup>
Pipeline				
Major Arterial	\$/in./ft.	36 in. 17,500 ft.	\$36.00	\$22,680,000
Minor Arterial	\$/in./ft.	36 in. 24,800 ft.	\$25.00	\$22,320,000
Collector	\$/in./ft.	36 in. 13,100 ft.	\$22.00	\$10,380,000
Open Space	\$/in./ft.	36 in. <u>3,500 ft.</u>	<u>\$25.00</u>	\$3,150,000
		58,900 ft.	\$27.60	\$58,530,000
EVWTP Connection	LS	1	\$2,000,000	\$2,000,000
I-15 Crossing Surcharge	\$/ft.	1000	\$1,500	\$1,500,000
Jack and Bore Surcharge	\$/ft.	1000	\$1,000	\$1,000,000
Boot & Bennett Connections	LS	2	\$750,000	\$1,500,000
Isolation Valves	LS	2	\$250,000	\$500,000
Flow Control Facility / Pechstein Connection	LS	1	\$2,000,000	\$2,000,000
Instrumentation	LS	1	\$1,000,000	\$1,000,000
Easements / Land Acquisition	\$/acre	0.0	\$500,000	\$0
Subtotal Pipeline				\$68,000,000
Flume Demolition				
Bench Sections	\$/ft.	30,270	\$150	\$4,540,000
Siphon Sections	\$/ft.	22,995	\$150	\$3,450,000
Tunnel Sections	\$/ft.	2,010	\$150	\$300,000
Subtotal Flume Demolition		55,275		\$8,300,000
Mark-ups and Other Costs				
Subtotal				\$76,300,000
Contingency	%		25%	\$19,100,000
Subtotal Construction Cost				\$95,400,000
Design / Administration /	%		23%	\$21,900,000
Environmental / Permitting			- , ,	, , , -
TOTAL PROJECT COST				\$117,300,000
TOTAL PROJECT COST (round	ed)			\$120,000,000

<sup>1.</sup> Costs in 2020 dollars. (January 2020 ENR LA CCI = 12,144)

In comparison, we estimate the cost of the Hybrid alternative to be approximately \$10 million higher, for a total cost of approximately \$130 million. The higher cost of the Hybrid alternative, at the conceptual level of cost review, arises primarily due to its longer length. The cost includes approximately \$2 million to account for the probability-weighted cost of lost local water deliveries and local treatment benefits during extended Flume shutdowns.

Our cost estimates are for welded steel pipe. The Study team has evaluated the possible use of alternative pipe materials, including PVC and Ductile Iron, and determined that at the assumed diameter of 36-inches, and for construction in urban arterial roads, these materials are unlikely to achieve significant cost savings, while lacking the long-term durability and resiliency of welded steel. Alternative pipe materials should be further considered during the preliminary and final design phases of the project, but for the current purposes of project planning we recommend the estimates of project costs assume the use of welded steel.

The estimates reflect the current San Diego area bidding climate, which is high in comparison to historical conditions. Assuming a Flume project were bid a few years in the future, the bidding climate in effect at that time will influence the project costs.

The estimates are preliminary, based not on detailed construction drawings but rather on professional judgement of the construction conditions and methods likely to be applicable to each reach of the alignment as depicted in **Figure 1**. The estimates are Class 5 planning level estimates; we estimate their accuracy range at approximately -35 to +50 percent.

# 5.10. A final determination of alignment, pipe material, pipeline diameter, and other factors would be made as part of Alignment and Preliminary Design studies.

The Study's review of Flume replacement options, including alignments, pipe materials, pipeline diameters, and other factors has advanced only to a degree sufficient to confirm overall feasibility and to generate a range of probable costs. Our alignment options in particular are conceptual only, and are not intended to imply preference for routing decisions. Those decisions are in the future. Should the District elect to proceed with the To Flume option, it would undertake Alignment Study and Environmental Documentation efforts that would evaluate multiple alternatives and identify, and document, preferred project solutions.

Those future studies would also give further consideration to the following issues relative to differences between Hybrid and All-New alignments:

- **Right-of-Way Issues:** The District's easement holdings for the existing Flume pre-date almost every other utility in the area, meaning any relocation of Flume facilities required by others is paid for by others. This factor advantages the Hybrid alignment over the All-New alternative. At the same time, the existing Flume easements require ongoing maintenance and inspection, adding operating costs. This factor advantages the All-New alignment.
- Capital Outlay Programming: The Hybrid alignment option allows for phased construction, spreading out capital outlay spending over a longer time. In particular, future condition assessment work on the siphon sections may support deferring structural relining of those reaches for additional decades. In comparison, the All-New alignment option could at most be broken into two reaches (in **Figure 1**, these are delineated by the point where the purple All-New line crosses the Flume), and these phased a few years apart, with only modest attenuation of capital outlay spending levels.

### 6. Conclusions and Next Steps

### 6.1. First-Year Cost Review: Modest favor the To Flume option.

First-year unit costs of the Not To Flume and To Flume options are summarized in the tables below. The comparison does not account for differences in cost escalation over time.

### First-Year Costs for Not To Flume Option

Cost Component	Description	Equivalent Unit Cost <sup>1</sup>
Increased Water Authority Purchases	Purchase an additional 5,000 AF/yr, on average, of treated Water Authority water at a first year "all-in" rate of \$1,700, as presented in <b>Section 1.5.</b>	\$1,700/AF
Local System O&M	Operate and maintain the local water system on a long-term, asset management driven basis as described in <b>Section 2</b> .	\$720/AF
<b>Exchange Benefit</b>	Sale of local water to Escondido, per <b>Section 3.</b> The benefit is expressed on the basis of 5,000 AF/yr of local system yield.	(\$420/AF) (benefit)
Delivery Reliability Mitigation	To compensate for reduction in delivery reliability absent the Flume, increase storage of planned Pechstein II reservoir by 10 MG, at a capital cost of \$15M <sup>2</sup> , as described in <b>Section 4.1</b> .	\$140/AF
Boot and Bennett Transfer	Transfer Boot and Bennett areas to Vallecitos, incurring a midrange capital cost of \$17M <sup>2</sup> as presented in <b>Section 4.2.</b>	\$160/AF
Reduced Pumping Costs	By taking water at its VID3 connection rather than from the Flume, the District achieves annual pumping cost savings of \$210,000 and capital cost savings of \$5M <sup>2</sup> , as presented in <b>Section 4.3.</b>	(\$90/AF) (benefit)
TOTALS	(Rounded)	\$2,200/AF

### First-Year Costs for To Flume Option

Cost Component	Description	Equivalent Unit Cost <sup>1</sup>
Local Water System O&M	Operate and maintain the local water system on a long-term, asset management driven basis as described in <b>Section 2</b> .	\$720/AF
Water Treatment	Treatment of local water at the EVWTP, as described in <b>Section 2.</b>	\$200/AF
Flume Replacement	Replace the Flume at a total capital cost of $$120M^2$ as described in <b>Section 5.</b>	\$1,150/AF
Flume O&M	Operate and maintain the Flume, per <b>Section 5.</b> (Asset management costs do not begin until after the 30 year finance period.)	\$20/AF
Self-Treatment Benefit	Operation of the Flume allows the District to use approximately 7,500 AF/yr of Water Authority raw water, which it treats at a cost approximately \$75/AF less than the Water Authority treated water rate differential. The equivalent unit benefit is expressed on the basis of 5,000 AF/yr of local system yield.	(\$110/AF) (benefit)
TOTALS	(Rounded)	\$2,000/AF

- 1) Equivalent unit costs in 2020 dollars, for 5,000 AF/yr average annual yield of the local water system.
- 2) Capital costs are amortized at 2.5 percent over 30 years (A/P = .0478), and converted to unit cost using the District's 5,000 AF/yr average annual yield of the local water system.

### 6.2. <u>30-Year Cost Review</u>: Differences in cost escalation rates result in pronounced advantage to the To Flume option.

The first-year costs presented in **Section 6.1** do not account for differences in the rates of cost escalation between the options over time. We expect <u>most</u> of the cost components listed will inflate over time at the assumed mid-range rate of 3.0 percent per year, as described in **Section 1.7**. We expect however that the two largest cost line items, Water Authority treated water rates and Flume Replacement amortized costs, will escalate at rates different than inflation with significant consequences to the overall cost comparison.

Regarding Water Authority treated water rates, the best available forecast as described in **Section 1.5** indicates rates are likely to increase faster than inflation for approximately the next 10 years, and thereafter equal to inflation. In contrast, <u>Flume Replacement amortized costs</u>, assuming the use of conventional level 30-year financing, would remain steady over the period with no escalation. This combination of escalating Water Authority rates and steady Flume Replacement amortization costs weighs to the significant advantage of the To Flume option.

The resulting thirty-year costs are summarized in the tables below.

Thirty-Year Present-Worth Costs<sup>1</sup> for Not To Flume Option

Cost Component	Annual Cost Escalation	30-Year Costs <sup>2</sup>
Increased Water Authority Purchases	Years 1-10: Mid-Range Inflation + 1.5% Years 11-30: Mid-Range Inflation	\$287M
Local System O&M	Mid-Range Inflation	\$108M
Exchange Benefit	Mid-Range Inflation	(\$63M)
Delivery Reliability Mitigation	None	15M
<b>Boot and Bennett Transfer</b>	None	17M
Reduced Pumping Costs	O&M Portion: Mid-Range Inflation Capital Portion: Zero (level financing)	(\$11M)
TOTALS	(Rounded)	\$350M

### Thirty-Year Present-Worth Costs<sup>1</sup> for To Flume Option

Cost Component	Annual Cost Escalation	30-Year Costs <sup>2</sup>
Local Water System O&M	Mid-Range Inflation	\$108M
Water Treatment	Mid-Range Inflation	\$30M
Flume Replacement	None	\$113M <sup>3</sup>
Flume O&M	Mid-Range Inflation	\$3M
Self-Treatment Benefit	Mid-Range Inflation	(\$17M)
TOTALS	(Rounded)	\$240M

- 1. All annual cost items are inflated as noted over 30 years, then brought back to present worth at a discount rate of 3.0%/yr.
- 2. Costs in 2020 dollars
- 3. That's not a typo. The assumption that the project will receive low-interest financing results in an effective subsidy in its present-worth cost. The subsidy for \$120M of capital financed at 2.5% interest over a 30- year period, and brought back to present worth at a discount rate of 3.0%, amounts to approximately \$7M.

Beyond the 30-year finance period, all of the costs for the Not To Flume option continue to accrue, while costs for the To Flume option decrease with the retirement of the capital debt. At that time the District would begin accruing a sinking fund for long-term maintenance and repair of the new Flume, but the annual cost for this fund would be considerably less than the bond payment amount. This suggests the long-term cost advantages of the To Flume option would likely continue beyond the 30-year finance period and into the future.

# 6.3. <u>Sensitivity Analysis</u>: The cost comparison can be altered by changes to individual assumptions; however, getting the scale to tip the other way requires changes to multiple assumptions.

The cost comparisons presented in **Sections 6.1** and **6.2** utilize the Mid-Range estimates for all cost components and financing terms. The Mid-Range assumptions reflect the Study team's best estimates and professional judgements; we think those are the best numbers to use for the current planning purposes. Nevertheless, we recognize that our estimates and assumptions about future conditions are imperfect, and that actual costs and actual future conditions could vary. Having demonstrated that the cost balance scale tips in favor of the To Flume option using the Mid-Range estimates, it is prudent to consider the sensitivity of that outcome to changes in the assumptions.

The Sensitivity Analysis table on the next page summarizes the effects on the thirty-year cost comparison of making one-at-a-time changes to key <u>individual</u> assumptions. For example, what is the effect on the cost comparison of changing the project interest rate from the Mid-Range value to a higher rate, or what is the effect of assuming Water Authority rates will escalate at a pace lower than the Mid-Range assumption? For comparison, the first row of the table lists what we have labeled as the Baseline Condition, the costs that result from consistent application of the Mid-Range assumptions as detailed in the previous subsection.

Because the cost balance scale for the Baseline Condition tilts so prominently in favor of the To Flume option, the Sensitivity Analysis table presents only changes made in the direction of advantaging the Not To Flume option at the expense of the To Flume option (e.g., adjusting project interest rates to make financing of a Flume Replacement project more expensive than for the Mid-Range condition). It is important to keep in mind that for every changed assumption presented in the direction of advantaging the Not To Flume option, there is an equal and opposite change that would further advantage the To Flume option (e.g., we could change the interest rate assumption the other direction to make the financing of a Flume Replacement project less expensive than the Mid-Range condition).

### Sensitivity Analysis for Changes to Individual Cost Variables

(With all adjustments made in the direction of advantaging the Not To Flume option)

			30-Yr.	30-Yr. Costs <sup>1</sup>	
Cost Variable	Assumption	Effect	Not To Flume	To Flume	
Baseline Condition	Baseline costs using all Mid- Range assumptions, per Section 6.2.		\$350M	\$240M	
1. Interest Rates	Increase project interest rate from the Mid-Range value of 2.5% (melded) to Pessimistic range value of 4.0%	Increases present- worth cost of Flume replacement by ~\$22M	\$350M	<b>↑</b> \$260M (+\$20M)	
2. Rate Escalation	Reduce the pace of rate escalation from Mid-Range (inflation + 1.5% next 10 years, thereafter at inflation), to Optimistic (inflation + 1% for next 5 years, thereafter at inflation)	Reduces cost of Water Authority purchases for local yield replacement water by ~\$20M	\$330M (-\$20M)	\$240M	
3. Exchange Opportunities	Increase the exchange revenue from Mid-Range (\$420/AF) to Optimistic (\$530/AF)	Reduces net cost of Not To Flume option by ~\$20M	\$330M (-\$20M)	\$240M	
4. System Improvements	Change Boot and Bennet transfer cost from Mid-Range (\$17M) to Optimistic (\$6M)	Reduces cost of Not To Flume option by ~\$10M (rounded)	\$340M (-\$10M)	\$240M	
5. Flume Replacement	Assume replacement costs 25% above budget	Increases costs of Flume replacement by ~\$30M	\$350M	<b>↑</b> \$270M (+\$30M)	
6. Average Local Yield	Reduce the average yield of the local water system from Mid-Range (5,000 AF/yr) to Pessimistic (4,000 AF/yr) (Note: Less yield would mean less replacement water would be required.)	Reduces cost of Water Authority purchases for local yield replacement water by ~\$60M Reduces costs for local water treatment by ~\$10M	\$290M (-\$60M)	\$230M (-\$10M)	

1. Costs in 2020 dollars

It is apparent from the table that the long-term cost advantages of the To Flume option are robust, in that changes to individual assumptions alone are not sufficient to tip the balance scale the other way. Of the six variables presented, changes to the last, Average Local Yield, result in the largest swing in costs (\$50M net) between the To Flume and Not To Flume options.

To further test sensitivity, the table on the next page presents the results of applying multiple changed assumptions simultaneously, all in the direction of advantaging the Not To Flume option.

### Sensitivity Analysis for Changes to Multiple Cost Variables, Case 1

(With all adjustments made in the direction of advantaging the Not To Flume option)

		30-Yr. Costs <sup>1</sup>		
Cost Variable	Assumption	Not To Flume	To Flume	
<b>Baseline Condition</b>	Baseline costs using all Mid-Range assumptions, per <b>Section 6.2</b> .	\$350M	\$240M	
First Five of Six (1. Interest Rates, 2. Rate Escalation, 3. Exchange Opportunities, 4. System Improvements, 5. Flume Replacement)	Assumes the first five of the assumptions change, in unison, from their Mid-Range values to those most favorable to the Not To Flume option.	<b>↓</b> \$300M (-\$50M)	<b>↑</b> \$290M (+\$50M)	
All Six (The first five above, plus: 6. Average Local Yield)	Assumes all six of the assumptions change in unison from their Mid-Range values to those most favorable to the Not To Flume option.	\$240M (-\$110M)	↑ \$280M (+\$40M)	

The table demonstrates that with enough changes to the Mid-Range assumptions, all made in the direction of favoring the Not To Flume option, it is possible to bring the long-term costs of the two options to parity, and in the extreme to gain modest comparative <u>cost</u> advantage (on the order of \$1.5 million per year over thirty years) for the Not To Flume option. **We consider this scenario unlikely, but do not deny it is possible.** 

On the topic of what is possible, remember the above sensitivity analysis tables are intentionally biased in favor of lending advantage to the Not To Flume option. If we instead adjusted the sensitivity variables in the other direction, in favor of the To Flume alternative, the cumulative results would be as presented in the table below.

### Sensitivity Analysis for Changes to Multiple Cost Variables, Case 2

(With all adjustments made in the direction of advantaging the <u>To Flume</u> option)

		30-Yr. Costs <sup>1</sup>		
Cost Variable	Assumption	Not To Flume	To Flume	
<b>Baseline Condition</b>	Baseline costs using all Mid-Range assumptions, per <b>Section 6.2</b> .	\$350M	\$240M	
First Five of Six (1. Interest Rates, 2. Rate Escalation, 3. Exchange Opportunities, 4. System Improvements, 5. Flume Replacement	Assumes the first five of the assumptions change in unison from their Mid-Range values to those most favorable to the <u>To Flume</u> option.	↑ \$400M (+\$50M)	<b>↓</b> \$205M (-\$35M)	
All Six (The first five above, plus: 6. Average Local Yield)	Assumes all six of the assumptions change in unison to those most favorable to the <u>To Flume</u> option.	<b>☆</b> \$485M (+\$135M)	<b>↓</b> \$215M (-\$25M)	

The table above and the one prior demonstrate the swing between wildly pessimistic and wildly optimistic assumptions. We think the actual numbers are most likely to be closer to the middle of this range.

# 6.4. Review of Non-Cost Factors: Both options have comparative advantages and disadvantages. We think To Flume comes out ahead, but the evaluations here are subjective. Your call.

Major <u>non-cost</u> attributes of the Not To Flume option are summarized in the table below. The evaluations presented here are preliminary and subject to Board refinement.

### Major Non-Cost Components for Not To Flume Option

		Rating			
Evaluation Factor	Discussion	To Flume	Not To Flume		
Maximize Service Reliability and Operational Effectiveness	Without the Flume, the District would incur loss of an increment of delivery reliability provided by the Flume. Delivery reliability in the Not To Flume option is mostly compensated for as described in <b>Section 4.1</b> , but not entirely.	•	0		
Minimize Environmental Impacts / Protect Environmental Resources	Potential adverse environmental effects of a Flume replacement project appear mitigable, with costs included in the estimate. Environmental management of the Warner Basin could continue under either option.	0	0		
Implementability – Capital Outlay Expenditures	Even though equivalent unit costs are level between the options, the To Flume option requires large capital financing, while the Not To Flume option does not.	U	0		
Implementability – Other Risks and Opportunities	Each option leads to its own set of risks and opportunities. The To Flume option incurs risk of hydrologic uncertainty as to future yield, but that uncertainty is as likely to be favorable and unfavorable. The To Flume option leaves open the potential opportunity of an expanded Warner Basin wellfield, but that opportunity has not yet been evaluated for economic merit.	0	$\bigcirc$		
Regional Cooperation	The existing Flume provides valuable supply redundancy to the Rincon del Diablo, via an intertie utilized by Rincon del Diablo during Water Authority aqueduct shutdowns. Rincon del Diablo is hoping the District chooses To Flume.	0	O		
Intrinsic Values	For board discussion	?	?		

# 6.5. <u>Course Corrections and Offramps</u>: For either option, the District will have a period of further planning and design prior to going all-in. You will have opportunities for course corrections and offramps along the way.

The Water Supply Planning Study is not the final word on To Flume or Not To Flume. Rather, the results of the Study will inform the District's decision as to whether to proceed with the next steps for preliminary design and environmental documentation for one option or the other. Either path provides ample time and opportunity for further review and refinement of the findings of the work presented here, and we recommend that periodic overview assessments be built into the scope of work for either path.

If for example you elect to proceed with planning for a Flume Replacement Project, and if in the course of that planning you determined that all six of the cost variables from the prior table had shifted in favor of the Not To Flume option, you could change course at that time. We hope that takes a bit of the pressure off the current To Flume or Not To Flume decision.

### 6.6. Next Steps: To Flume

If the District chooses To Flume, its next steps will include the major items summarized in the table below.

### **Next Steps – To Flume Option**

Action	Description	Schedule and Budget
1. Alignment Study	Conduct a thorough Alignment Study for a Flume Replacement Project. Evaluate alternative alignments, define key design parameters, refine project costs, and provide engineering support to the Environmental Documentation process	18-24 months \$0.75M - \$1.25M
2. Environmental Documentation	Conduct environmental documentation and preparation for project permitting	18-24 months \$0.75M - \$1.25M
3. Financial Planning	Develop project financing plans; prepare and apply for grants (depending on project eligibility) and low-interest loans	12-18 months \$0.1M - \$0.25M
4. Miscellaneous	Average Local Yield: Refine estimates	12-18 months \$0.1M - \$0.25M
Total		24-36 months \$1.7M - \$3M

### 6.7. Next Steps: Not To Flume

If the District chooses Not To Flume, its next steps will include the major items summarized in the table below.

### **Next Steps – Not To Flume Option**

Action	Description	Schedule and Budget
1. Flume Retirement Planning	Define timing and process for Flume retirement and demolition, including environmental review	12-24 months \$0.5M - \$0.75M
2. Boot and Bennett Transition	Prepare necessary agreements and studies with Vallecitos and LAFCO for transition of the Boot and Bennett areas to the Vallecitos service area.	12-24 months \$0.25M - \$0.75M
3. Delivery Reliability / Pechstein II	<ul> <li>Prepare formal plan for delivery reliability upon retirement of the Flume</li> <li>Prepare preliminary design and environmental documentation for Pechstein II</li> <li>Coordinate with the Water Authority to monitor implementation of their Isolation Valves project</li> </ul>	12-24 months \$0.25M - \$0.75M
4. Escondido Water Purchase Agreement	<ul> <li>Coordinate with Escondido to formalize terms</li> <li>Work with Escondido to explore opportunities for water quality and treatability improvements at Lake Wohlford and the EVWTP</li> </ul>	12-24 months \$0.25M - \$0.5M
Total		12-24 months \$1.25M - \$3M

### 6.8. We'll see you at Workshop No. 3.

These are challenging and exciting issues for the District. We look forward to reviewing them with you at Workshop No. 3.

### **Attachment J**

### **Budget Projection through Fiscal Year 2027 after Proposed Rate Increases**

All Sources except Service Charge	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
Water Rates Sales Tier 1 (Tier 1 Rate) \$	17,410,120 \$	17,701,240 \$	17,701,240 \$	17,701,240 \$	17,701,240 \$	17,701,240	
Water Rates Sales Tier 2/3 (Tier 1 Rate)	14,564,739	13,948,479	13,948,479	13,948,479	13,948,479	13,948,479	
Emergency Storage Pass-through	1,821,000	1,821,000	1,821,000	1,821,000	1,821,000	1,821,000	
Revenue All Others	3,241,900	3,473,430	3,548,193	3,635,110	3,724,309	3,815,850	
All Expenses excl Depr and CS RM	36,814,349	37,200,242	37,590,773	38,062,228	38,477,588	38,897,316	
Total	223,411	(256,094)	(571,861)	(956,400)	(1,282,561)	(1,610,747)	
Service Charge							
Service Revenue	17,796,294	18,092,589	18,613,032	19,213,736	19,834,463	20,475,883	
Customer Service	1,871,702	1,835,010	1,882,372	1,930,955	1,980,793	2,031,917	
Repairs and Maintenance	5,760,795	5,909,480	6,062,003	6,218,462	6,378,959	6,543,599	
Capital	10,163,797	10,348,098	10,668,658	11,064,319	11,474,711	11,900,367	
Total	-	-	-	-	-	-	
Marginal Tier 2							
Marginal Tier 2 Revenue	1,110,731	2,221,463	2,221,463	2,221,463	2,221,463	2,221,463	
Cost of Conservation	235,854	241,941	248,186	254,591	261,162	267,903	
Tier 2 Marginal for Capital	874,878	1,979,522	1,973,277	1,966,872	1,960,301	1,953,560	
Capital Sources							
Capital Sources Top Section	223,411	(256,094)	(571,861)	(956,400)	(1,282,561)	(1,610,747)	
Capital Sources Service Charge	10,163,797	10,348,098	10,668,658	11,064,319	11,474,711	11,900,367	
Capital Sources Tier 2 Marginal	874,878	1,979,522	1,973,277	1,966,872	1,960,301	1,953,560	
Available for Capital	11,262,085	12,071,526	12,070,074	12,074,791	12,152,451	12,243,180	
Capital Project	(15,429,000)	(25,258,275)	(8,331,880)	(9,281,674)	(10,017,727)	(10,356,065)	
Amount Left over (Negative decreases reserves)	(4,166,915)	(13,186,749)	3,738,194	2,793,117	2,134,724	1,887,115	(6,800,514)

	Cash Balance Expected C		Actual I 06/30/2021 06	
		Amount		Amount
Emergency and Contingency Reserve	\$	10,000,000	\$	10,000,000
Working Capital Reserve		10,000,000		10,000,000
Surplus Water Pass-through		4,595,222		4,595,222
Water Rebate (5 years 2022-2026)		1,571,006		
Capital Improvement Reserve		20,346,496		13,545,982
Total Cash Balance		46,512,724		38,141,204
Capital Improvement Reserve 06/30/2021	\$	20,346,496		
Proposed Budget Projection to Fiscal Year 2027		(6,800,514)		
Projected Capital Improvement Reserve Balance as of 06/30/2027		13,545,982		

### **Attachment K**

Vista Irrigation District
Water Authority Pass-through Calculation

#### Overview

The San Diego County Water Authority (Water Authority) is responsible for supplying water to 24 member agencies within San Diego County. Not simply a water provider, the Water Authority is also responsible for the construction and maintenance of regional storage, delivery and treatment infrastructure necessary to ensure the reliable delivery of water to local water agencies like Vista Irrigation District (District). The District seeks to pass-through any increases or decreases in the cost of purchased water directly to the ratepayer when the changes occur.

The Water Authority has both fixed and variable costs. Fixed costs are allocated to member agencies based on each agency's percentage of demand in prior years, which are updated annually. Variable costs are charged based on actual water purchased by a member agency and have separate charges for raw melded supply, treatment and transportation.

The District uses a fiscal year ending June 30; The Water Authority uses a calendar year with increases effective January 1 each year. The District typically increases its rates for the pass-through on March 1 because the District bills the majority of its customers every two months and usage starting January 1 would be seen on billings mailed on or after March 1.

The calculation for the pass-through compare the increases/decreases in fixed and variable charges against the volume of water purchased to create a per unit charge.

### **Explanation of Pass-through Calculation**

Water Authority Fixed Costs - The Water Authority typically calculates fixed costs that will be charged to each member agency effective January 1 each year. The fixed charges are divided by 12 months and billed to member agencies regardless of the volume of water purchased in the calendar year. This part of the calculation totals the fixed costs.

Prior Fiscal Year True Up Between Budget and Actual for Fixed Costs - The pass-through must be spread across the volume of water purchased to get to an amount per unit. The budgeted water volume (in acre-feet) is used to determine the fixed costs per unit. Once actual units are known, the rate is adjusted in the current year to make up for the difference between budgeted and actual volumes. If the amount results in a large increase, the District spreads the amount across several years to help stabilize the increase/decrease to ratepayers. The line "i prior" presents any amounts not adjusted for in the prior year in order to smooth rates.

Fixed Costs Change between Prior Actual and Current Budget - The section above adjusts the rate from prior year's budget to prior year's actual volume purchased. This section takes the prior year actual volume and adjusts it to the District's current year budgeted volume.

Water Authority Variable Costs - Each year, the Water Authority calculates variable costs for actual water purchased. This section compares the prior calendar year costs of raw water, treatment of water and transportation of water against the current year costs per unit. Since the District has its own local water supply (Lake Henshaw), it calculates the percentage of purchased water against total water and adjusts the amount per unit lower to account for the volume of local water delivered.

Summary - The summary adds up the various increases and decreases and then adjusts for lost water; every year the District must buy more water than is sold because of water loss. Starting in 2022 and for the next 5 years, the District will be applying a rebate against the rate increases (see below); the difference between the calculation and the rebate is rounded to the nearest cent. This increase/decrease is added to billings starting March 1 of each year. If the Water Authority was to increase/decrease at another point in time during the year, the District would also complete that calculation and adjust rates accordingly.

Rebate (Credit) Details - The Water Authority received a \$44.4 million rebate from the Metropolitan Water District of Southern California (Metropolitan). On February 25, 2021, the Water Authority's Board of Directors announced a plan to distribute the rebate to its 24 member agencies. The District's pro-rata share of the rebate was \$1,570,006; funds were received in April 2021.

The rebate was the result of decade-long rate case litigation between the Water Authority and the Metropolitan; The Water Authority won on several critical issues in the cases covering 2011 to 2014 and was deemed the prevailing party; as such, The Water Authority was owed legal fees and charges in additional to the damages and interest payments. The payment by Metropolitan was a damages award for Water Stewardship Charges that had been unlawfully assessed by Metropolitan on the Water Authority's independent water supplies transported through Metropolitan facilities from 2011 through 2014.

On October 28, 2021, the Water Authority's Board approved an additional \$35.9 million rebate for damages and interest from the Metropolitan Water District of California for breach of the parties' Exchange Agreement for years 2015-2017 by charging a Water Stewardship Rate, to be disbursed to the member agencies. The District's pro-rata share of the additional rebate is \$1,227,643.

The District has elected to use the rebates to offset the Water Authority rate increases over the next five years beginning January 1, 2022, lessening the impact of future Water Authority pass through rate increases.

### VISTA IRRIGATION DISTRICT 2022 WATER AUTHORITY PASS THROUGH CALCULATION

WAT	TER AUTHORITY FIXED COSTS	Cale	endar 2021	Ca	alendar 2022
(a)	MWD - Net Ready to Service	\$	418,777	\$	366,837
(b)	MWD - Capacity Reservation		280,284		349,692
(c)	CWA - Customer Service		938,328		843,729
(d)	CWA - Storage		2,370,300		2,124,313
(e)	CWA - Supply Reliability Charge		1,490,039		1,474,004
(f)	Total Fixed Costs (a) + (b) + (c) + (d) + (e)	\$	5,497,728	\$	5,158,575
					-6.2%

PRIOR	FY TRUE UP BETWEEN BUDGET AND ACTU	IAL FOR FIXED COSTS	Budgeted 2021	Actual 2021	
(g)	FY Water Sales (Budgeted/Actual)		15,900	17,322	
(h)	FY Fixed Costs to Rate Per AF (f) / (g)		345.77	317.38	
(i)	FY True Up Pass Through Per HCF ((h) Actu	ual - (h) Budgeted) / 435.6	Ç	(0.065)	
(i prior)	Prior Year Calculation hold over			0.025	
(i.1)	True Up				(0.040)

FIXED	COSTS CHANGE BETWEEN PRIOR ACTUAL AND CURRENT BUDGET	FY 21 Actual	FY 22 Budgeted	
(j)	FY Actual & FY Budgeted Water Sales	17,322	15,800	
(k)	Fixed Costs to Rate Per Acre Foot (f) / (j)	317.38	326.49	
(I)	Fixed Cost Pass Through Per HCF ((k) Budget- (k) Actual) / 435.6			\$ 0.021

WATE	R AUTHORITY VARIABLE COSTS	Prior Y 2021	Current FY 2022	
(m)	Raw Melded Supply (A/F)	\$ 940	\$ 1,009	
(n) (o)	Treatment (A/F) Transportation (A/F)	295 150	310 173	
(p)	Total Variable Charges Per AF (m) + (n) + (o)	\$ 1,385	\$ 1,492 <b>7.7%</b>	
(q)	Variable Costs Per HCF ((p) Current - (p) Prior) / 435.6		\$ 0.246	
(r)	10 Year Average Local Water Production	2,507	15%	
(s)	Imported Water	14,293	85%	
	FY 2022 Budgeted Total Water Supplied	16,800	100%	
(t)	Variable Cost Pass Through - HCF (q) x (s)			\$ 0.209

#### SUMMARY

(u) Pass Through Per HCF (i.1) + (l) + (t)	\$ 0.190
Adjusted for 6% Water Loss (u) / .94	\$ 0.202
Rebate Credit Refund	\$ (0.081)
Total Adjusted for Water Loss	\$ 0.121
Pass Through Per HCF Rounded	\$ 0.120

### Rebate Calculation

Amount Received 04/21	\$ 1,571,006
Amount Expected Second Rebate	\$ 1,227,643
Total Rebate	\$ 2,798,649
Amount Per year (5 years)	\$ 559,730
Current Year Budget af	15,800
Amount Per AF	\$ 35.43
Amount Per Unit	0.081
Year 1 Rebate Amount Rebate Amount Remaining	559,730 2,238,919.26



### NOTICE OF PUBLIC HEARING ON PROPOSED WATER RATES AND SERVICE CHARGE INCREASES AND MODIFICATIONS TO EXISTING RATE STRUCTURE

PLEASE TAKE NOTICE that the Governing Board of the Vista Irrigation District (District) will conduct a Public Hearing on January 19, 2022 at 9:00 a.m., in the Board Room at its Administrative Office at 1391 Engineer Street, Vista, CA 92081, to consider the adoption of proposed water rate and service charge increases, adjustments to the District's existing rate structure, and authorizing the pass-through of inflationary and other pass through costs pursuant to Government Code section 53756.

This legal notice contains information regarding increases to water rates and service charges charged for providing water service to all parcels of land within the boundaries of the Vista Irrigation District as well as alterations to the District's existing rate structure. The District periodically evaluates its service needs, programs and operational costs before recommending rate changes to the District's Board of Directors. As a result of this evaluation, the District proposes to adjust tier allotments, increase water rates to generate sufficient revenue to cover the costs of providing water service, and extend and modify annual cost of living adjustments and wholesale purchased water pass-through costs to cover the District's future cost of providing water service.

Prior to adoption of this rate increase and methodology adjustment, District customers (property owners and tenants that pay the District's bills) are notified by mail about proposed rate changes and given the opportunity to comment and file a written protest. This notice provides information related to the District's proposed water rate increases and modification to the District's rate structure. This notice also describes periodic adjustments for increases in wholesale water rates and increases in the rate of inflation that may be necessary over the next five years. Finally, this notice outlines the public hearing and protest process for the public hearing set for January 19, 2022 at the District offices, per Proposition 218.

### PROPOSED EFFECTIVE DATE

The water rates being considered would be reflected on invoices sent on or after April 1, 2022. The District bills for water service in arrears, water bills received on or after April 1, 2022 will reflect the adjusted rates for the customer's billing period (which may be monthly or bi-monthly) prior to that date.

### WHY ARE THE MODIFICATIONS TO THE RATE, SERVICE CHARGE, AND RATE STRUCTURE NEEDED AND WHAT IS THE BASIS FOR THAT THAT CALCULATION?

The proposed water rate increases and rate structure modifications are being considered for the purpose of recovering costs incurred by the District in operating its water system and otherwise delivering water to its customers. Costs include, but are not limited to, water purchases from the San Diego County Water Authority (Water Authority), system operation and maintenance, facility and equipment maintenance, system rehabilitation, regulatory compliance, metering, billing, conservation and account management.

A detailed projection of the District's Revenues, Expenses and Capital Projects through Fiscal Year 2027 was completed, and it was determined that \$16,262,819 in Capital Improvement Reserves would need to be used to fund reservoir rehabilitation/replacement as well as other vital capital projects. This would leave a balance of \$4,083,678 at June 30, 2027 with capital expenditures for Fiscal Years 2028 and 2029 projected to be \$10,252,627 and \$18,026,577 respectively; the \$4,083,678 Capital Improvement Reserve balance would not be sufficient to fund projects in Fiscal Years 2028 and 2029. Some of the capital projects included during those years are the rehabilitation of the Pechstein and "A" reservoirs and the construction of Pechstein II Reservoir (see Water Rate Study at <a href="https://www.vidwater.org">www.vidwater.org</a> for a listing of future capital projects).

The reason for the proposed rate increases is to generate approximately \$2,163,000 in additional revenue in Fiscal Year 2023 for the District. The proposed rate increases provide funding for necessary repairs and improvements to the District's aging infrastructure, ensuring the District is able to continue to provide a reliable supply of high quality water to its current and future customers. For additional information or calculations on the proposed increase and structure modifications and why there is a need, you can find the District's Water Rate Study at <a href="https://www.vidwater.org">www.vidwater.org</a> or contact Customer Service for a mailed copy.

### PROPOSED CHANGES TO RATES, RATE STRUCTURES AND SERVICE CHARGES

<u>Proposed Rate Increase and Rate Structure Modifications</u> - As with the District's existing rate structure, the proposed water rates and rate structure will continue to be based on three separate tiers. Likewise, the water allotment for each tier will continue to be based on meter size, so that as the size of a meter increases so does the water allotment.

The Tier 1 limit had been set in 2009 based on 50% of the average <sup>3</sup>/<sub>4</sub>" meter usage. For the purposes of this rate increase and rate structure modification, the tiers have been adjusted using the same methodology. As such, the Tier 1 allotment has been recalculated to be based on the *current* average water consumption usage of a <sup>3</sup>/<sub>4</sub>" meter and all meter sizes have been adjusted accordingly, as reflected in Figure 1 (one unit equals 748 gallons of water). The upper limit allotment for Tier 2 did not change.

Monthly Water Allotments by Tier						
	Current	Proposed	Proposed	Proposed		
Meter	Tier 1	Tier 1	Tier 2	Tier 3		
Size	Allotment	Allotment	Allotment	Allotment		
5/8"	0-7	0-4	5-42	43+		
3/4"	0-10	0-6	7-60	61+		
1"	0-25	0-15	16-150	151+		
1 1/2"	0-50	0-30	31-300	301+		
2"	0-80	0-48	49-480	481+		
3"	0-160	0-96	97-960	961+		
4"	0-250	0-150	151-1,500	1,501+		
6"	0-500	0-300	301-3,000	3,001+		
8"	0-800	0-480	481-4,800	4,801+		
10"	0-1150	0-690	691-6,900	6,901+		

**Figure 1. Rate Structure Modification** 

Tier 1 rates will increase from \$4.44 to \$4.72 and Tier 2/3 will increase from \$4.98 to \$5.19. For agricultural water program participants, domestic and Special Agricultural Water Rate (SAWR) program water use will continue to be billed at a flat rate.

	Current Rates	Vista Irrigation	San Diego County Water	Rebate credit applied to	Proposed Total
	Per Unit	District Increase	Authority Pass-through	Pass-through Increase	Rates Per Unit
Tier 1	\$4.44	\$0.16	\$0.20	-\$0.08	\$4.72
Tier 2/3	4.98	0.09	0.20	-0.08	5.19
Agricultural Prog	grams Only				
Domestic usage	4.76	0.15	0.20	-0.08	5.03
SAWRusage	3.91	0.07	0.20	-0.08	4.10

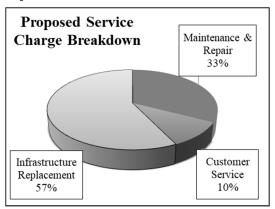
Figure 2. Proposed Water Usage Charge Adjustments

Approximately 20 percent of the revenue generated by water usage charges is utilized by the District to cover operating and maintenance expenses; the remaining 80 percent is used to pay the San Diego County Water Authority (Water Authority) for water purchases. The Water Authority is responsible for supplying water to 24 member agencies within San Diego County and for the construction and maintenance of regional storage, delivery and treatment infrastructure necessary to ensure the reliable delivery of water to local water agencies.

<u>Service Charge</u> - The District proposes to adjust the fixed monthly service charge as shown in Figure 3.

Figure 3. Proposed Service Charge Adjustment and Cost Breakdown

Meter Size	Current	Proposed
5/8"	\$31.75	\$32.82
3/4"	41.88	43.3
1"	61.89	63.98
1-1/2"	112.34	116.14
2"	172.66	178.5
3"	333.57	344.85
4"	514.49	531.89
6"	1,218.45	1,259.65
8"	1,620.90	1,675.71
10"	2,425.46	2,507.47



The service charge recovers the District's customer service, repairs and maintenance and the majority of the infrastructure replacement, which exists regardless of the amount of water pumped and delivered. These costs continue without regard to the amount of water that a customer uses and are sometimes called "readiness-to-serve" charges. The largest component of the service charge recovers the cost of replacing the District's aging water system infrastructure.

### INFLATIONARY ADJUSTMENTS AND PASS-THROUGH INCREASES TO RATES AND CHARGES

The proposed rate increase covered by this notice, also includes authorized adjustments between 2023 and 2027, as and to the extent permitted by section 53756 of the Government Code, which if approved by the District Board after public hearing, will authorize the District to pass through to customers any increases or decreases from the Water Authority, and to impose inflationary adjustments to the District's service charges on a yearly basis. Any inflationary adjustments shall be calculated as an increase or decrease equal to the amount of the increase or decrease in the U.S. Department of Labor's Consumer Price Index – All Urban Consumers – San Diego, California for the previous calendar year ended. These adjustments shall be effective July 1 each year, commencing July 1, 2023 through July 1, 2026. This inflationary adjustment is only applied to District costs. In regards to the Water Authority's costs and potential increases or decreases of the same, the District proposes to pass through 100% of any increases or decreases in the Water Authority's fees and charges imposed on the District for imported water purchases through December 31, 2026.

### PUBLIC HEARING AND PROTEST INFORMATION AND PROCEDURES.

The District will accept written comments or protests prior to and up until the conclusion of the public hearing. As explained on page 1 of the notice, the public hearing will be held on January 19, 2022 at 9:00 a.m. in Board Room at the District's Administrative Office located at 1391 Engineer Street, Vista, CA 92081.

As of the date of this notice, there exists a state of emergency in California caused by COVID-19; however, unless a subsequent agenda or public notice provides otherwise, the District intends to conduct its meetings in a hybrid fashion, allowing for individuals to participate in public meetings in-person, observing California Department of Public Health COVID-19 related guidance, or if they prefer, via teleconferencing. The teleconference number and applicable pass code for such participation is as follows: Phone (877) 873-8018; Pass Code 474698#.

Written protests to the proposed rate increase may be submitted to the Secretary of the District's Board of Directors by mail to 1391 Engineer Street, Vista, CA 92081, or by personal delivery to the District, at the same address, prior to the conclusion of the public hearing. Each protest must identify the affected property (by assessor's parcel number, customer account number or street address) and include the signature of the property owner of record or the tenant (if the tenant is directly responsible for paying the District's water bill). Protests by e-mail or fax will not be accepted. Oral comments at the public hearing will not qualify as a formal protest though the District Board will consider all public comments submitted during the public hearing. If written protests against the proposed rate increase are presented by a majority of eligible owners or tenants within the District's service area prior to the close of the public hearing, the proposed rate increase and rate structure adjustment will not be approved.

Pursuant to Government Code Section 53759, any judicial action taken to challenge the adoption of any new, increased, or extended fees, which would include the fees that are the subject of this notice, is subject to a 120-day statute of limitations. As such, any judicial action or proceeding to attack, review, set aside, void, validate, or annul the District's approval of this proposed rate and service charge increase or rate structure modification, must be commenced within 120 days of the effective date of the modification or of the date of the final passage, adoption, or approval of the ordinance, resolution, or motion, whichever is later.

If you need assistance determining how the proposed changes in water rates and structure impact your water bills or have questions regarding this notice, please contact the District's Customer Service Department at (760) 597-3120 during regular office hours, Monday through Friday. You can also use the District's online water bill calculator, which is available on the District's web site at <a href="https://www.vidwater.org">www.vidwater.org</a>, to see how the proposed changes impact your water bill. Likewise, on that same website, you will find a variety of different resources, including the District's Water Rate Study made in support of these proposed rate increases, and tier adjustments.



1391 Engineer Street Vista, CA 92081-8840 Phone (760) 597-3100 www.vidwater.org



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### **Board of Directors**

Marty Miller, President
Paul E. Dorey
Jo MacKenzie
Patrick H. Sanchez
Richard L. Vásquez

#### **Administrative Staff**

Brett L. Hodgkiss General Manager Lisa R. Soto Board Secretary

### NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that Vista Irrigation District will hold a public hearing in its Board Room located at 1391 Engineer Street, Vista, California, on Wednesday, January 19, 2022, at 9:00 a.m. to consider revising the Rules and Regulations of the District relating to increases to certain water rates and service charges charged for providing water service to all parcels of land within the boundaries of the Vista Irrigation District as well as modifications to the District's tiered water rate structure allotments. All interested parties are invited to observe and participate in this public hearing to express opinions and/or present evidence relative to this matter and the fees being proposed.

A Notice of Public Hearing was mailed to all District customers (property owners and tenants that pay the District's bills) on or about December 3, 2021.

In anticipation of the public hearing, Vista Irrigation District has made available public data demonstrating the need for the proposed rate and service charge increase and tiered rate structure allotment modifications. In particular, the District has provided a copy of the most relevant information on its website at https://www.vidwater.org/notice-of-public-hearing-regarding-proposed-water-rates since December 3, 2021. Such information shall continue to be available upon request, and at the link mentioned herein, and shall also be made available at the public hearing to any interested party at the District's headquarters, located at 1391 Engineer Street, Vista, CA 92081.

Members of the public may attend this hearing in person; in-person attendees must comply with California Department of Public Health COVID-19 related guidance, including face-covering requirements. Members of the public may also observe and participate in the hearing through Vista Irrigation District's teleconferencing line; the phone number and applicable pass code for such participation is as follows: Phone (877) 873-8018; Pass Code 474698#. Telephone participants, who are interested in observing and/or participating in the public hearing regarding the rate and service charge increase and tiered rate structure allotment modifications being considered, are requested to place calls to the number listed above at or before 8:50 a.m. on January 19, 2022, so District staff can organize the number and order of speakers and assure the ability of all who wish to participate.

Prior to adoption of this rate increase and methodology adjustment, District customers (property owners and tenants that pay the District's bills) were notified by mail about proposed rate changes and the opportunity to comment and file a written protest. As explained in that notice, which is also available at the link above, the District will accept written comments or protests prior to and up until the conclusion of the public hearing.

Page 1 of 2

Written protests to the proposed rate increase may be submitted to the Secretary of the District's Board of Directors by mail to 1391 Engineer Street, Vista, CA 92081, or by personal delivery to the District, at the same address, prior to the conclusion of the public hearing, which is to be held on January 19, 2022 at 9:00 a.m. in Board Room at the District's Administrative Office located at 1391 Engineer Street, Vista, CA 92081. Each protest must identify the affected property (by assessor's parcel number, customer account number or street address) and include the signature of the property owner of record or the tenant (if the tenant is directly responsible for paying the District's water bill). Protests by e-mail or fax will not be accepted. Oral comments at the public hearing will not qualify as a formal protest though the District Board will consider all public comments submitted during the public hearing. If written protests against the proposed rate increase are presented by a majority of eligible owners or tenants within the District's service area prior to the close of the public hearing, the proposed rate increase and rate structure adjustment will not be approved.

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Please take notice that if you or anyone on whose behalf you are acting wishes to challenge any of the matters considered at the public hearing, in court or through other legal means, you may be limited to raising only such subjects as were raised through the conduct of the hearing.

The proposed changes to the water rates, service charge and tiered water rate structure allotments and the Water Rate Study to be considered by the Vista Irrigation District Board of Directors in connection with the public hearing may be viewed on the District's website at https://www.vidwater.org/notice-of-public-hearing-regarding-proposed-water-rates. Such materials, and other requests for information, may also be requested by contacting the Board Secretary's office at the address listed above, or by telephoning (760) 597-3128, between 8:00 a.m. and 5:00 p.m., Monday through Friday.

Lisa R. Soto, Secretary Board of Directors

Vista Irrigation District

### PROOF OF PUBLICATION (2010 & 2011 C.C.P.)

### STATE OF CALIFORNIA County of San Diego

I am a citizen of the United States and a resident of the County aforesaid: I am over the age of eighteen years and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of

### The San Diego Union Tribune

Formerly known as the North County Times and UT North County and which newspaper has been adjudicated as a newspaper of general circulation by the Superior Court of the County of San Diego, State of California, for the City of Oceanside and the City of Escondido, Court Decree numbers 171349 & 172171, for the County of San Diego, that the notice of which the annexed is a printed copy (set in type not smaller than nonpariel), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

January 10th & 16th, 2022

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at **TEMECULA**, **California this 17**<sup>th</sup>, **day January 2022** 

Jane Allshouse
Jane Allshouse

The San Diego Union Tribune Legal Advertising

#### NOTICE OF PUBLIC HEARING

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Pursuant to Government Code Section 53759, any judicial action taken to challenge the adoption of any new, increased, or extended fees, which would include the rate and service charge increase or structure modification that are the subject of this notice, is subject to a 120-day statute of limitations. As such, any judicial action or proceeding to attack, review, set aside, void, validate, or annul the District's approval of this proposed rate and service charge increase or rate structure modification, must be commenced within 120 days of the effective date of the modification or of the date of the final passage, adoption, or approval of the ordinance, resolution, or motion, whichever is later.

Please take notice that if you or anyone on whose behalf you are acting wishes to challenge any of the matters considered at the public hearing, in court or through other legal means, you may be limited to raising only such subjects as were raised through the conduct of the hearing.

The proposed changes to the water rates, service charge and tiered water rate structure allotments and the Water Rate Study to be considered by the Vista Irrigation District Board of Directors in connection with the public hearing may be viewed on the District's website at <a href="https://www.vidwater.org/notice-of-public-hearing-regarding-proposed-water-rates">https://www.vidwater.org/notice-of-public-hearing-regarding-proposed-water-rates</a>. Such materials, and other requests for information, may also be requested by contacting the Board Secretary's office at the address listed above, or by telephoning (760) 597-3128, between 8:00 a.m. and 5:00 p.m., Monday through Friday.

/s/Lisa R. Soto, Secretary Board of Directors, Vista Irrigation District

### **Protest Letter Summary**

		Avg. 1 N	lonth Bill With	Avg. Cos	t Increase Per	Avg. % Increase Per
<b>Meter Size</b>	# of Protests	Curi	rent Rates	r	Month	Month
5/8"	2	\$	57.08	\$	2.75	4.8%
3/4"	6		101.50		4.99	4.9%
1" *	2		55.43		2.38	4.3%
2"	1		208.03		6.68	3.2%

### Total Protests as of 1/11/2022: 11

<sup>\*</sup>A single 1 inch meter services a large single parcel with two houses. Counted as two protests and billing divided by two houses.

December 6, 2021

RECEIVED

DEC 0 9 2021

Vista Irrigation District 1391 Engineer Street Vista, CA 92081

VISTA IRRIG. DIST.

Dear Secretary of the District's Board of Directors,

I'm writing this PROTEST letter in response to the proposed water rate increase. This is simply unacceptable. We residents are paying more for utilities, gas, trash, and groceries. Our water rates are already too high and should be lowered. Please re-evaluate your expenses and bonuses and cut where possible and not slap us residents with your rate increase.

Holding residents hostage and forcing us to pay even more is a monopolizing strategy based on socialism and greed.

Sincerely,

Ramin Taghdiri 1770 Country Squire

Vista 92081

Justin & Jenny Windham

1502 Enchantment Ave. Vista, CA 92081 (619) 933-5975 justinwindhamdj@gmail.com

December 8, 2021

Secretary, *Vista Irrigation District* 1391 Engineer Street Vista, CA 92081

To Whom it May Concern,

We formally and fully protest the "proposed water rate and service charge increases" as described in the mailed correspondence we recently received entitled "NOTICE OF PUBLIC HEARING ON PROPOSED WATER RATES AND SERVICE CHARGE INCREASES AND MODIFICATIONS TO EXISTING RATE STRUCTURE."

Please use our contact information provided in this letter if you need to reach us for any further comment. Otherwise, please include this letter in your tally of those who are **opposed** to the rate increases. Thank you.

Sincerely,

Justin & Jenny Windham

1502 Enchantment Ave

Vista, CA 92081

RECEIVED
DEC 1 3 2021

ASTESTOR'S PARCEL # 165 PASED MARGUERITA
CUSTOMER ACCOUNT # 8331-0058-02

assistance grant/discount program.

PROTEST TO THE PROPOSED RATE MCREASE

D'un a senior citizen on a very limited low income.

D'un already struggling to pay the current rates.

D'un already struggling to pay the proposed increased rates,

unless your district offers some hind of a financial

Sincerdy. Eno Whousho 12/10/21

DEC 1 5 2021
VISTA IRRIG. DIST.

Krystyna Voigt

443 Mason Road

Vista, CA 92084

December 15, 2021

DEC 1 5 2021

VISTA IRRIG. DIST.

Secretary of District's Board of Directors

1391 Engineer Street

Vista, CA 92081

Re: Proposed Water Rates and Service Rate Increases

To Whom it May Concern:

I would like to protest any increases to the rate and service charge.

Accessors Parcel Number: 170-130-20

Address: 443 Mason Road, Vista, CA 92084

We have already stopped watering plants. We wash dishes once a week, laundry twice a month, shower minimally, and obviously flush the toilet as needed. Our usage is under \$10.00 /month. But our bill is over \$400.00. This is gouging on "readiness-to-serve" charges.

I propose a decrease in fees for customers like myself.

Thank you for your attention to this matter.

Kryptyna Voi St

Truly,

Krystyna Voigt

### Dear Board of Directors,

We are <u>opposed</u> to the proposed water rate and service charge increase and modification to existing rate structure (set to be effective April 1<sup>st</sup> 2022). We understand that inflation has had an impact on VID and that water costs money. However, we are already paying what feels like an exorbitant price for very little.

Our home is considered a detached condo and only has a tiny patio with a few plants surrounding it. And I would guess that our water usage from in the home is pretty average. Most of our VID bill is service changes and access to the water, as our actual water usage isn't very high. If we conserve water, it has almost no effect on our bill. Therefore, there is very little we can do to decrease our bill. In addition to feeling at the mercy of water prices, we already incurred a water rate increase in July 2021 (this year). We feel that having another increase this soon is not only unfair, but will be difficult. Please <u>do not</u> implement this rate and service increase or modification at this time.

Thank you, Melissa and Colin Beamish (Property Owners) 359 Cobalt Dr. Vista, CA 92083

12-14-2021

RECEIVED

DEC 17 2021

VISTA IRRIG. DIST.

## RECEIVED DEC 17 2021

VISTA IRRIG. DIST.

**December 14, 2021** 

VID IRRIGATION DISTRICT 1391 Engineer Street Vista, Ca 92081

Re: Public Hearing - Rate Increase

We are in total protest in regard to an increase in our rates. We are in the low income bracket, disabled & in our 80's. We are on Homecare with additional water being used for our disabilities.

The attached list of salaries indicates why the increase & huge water bills we are currently receiving.

We just called your office & there is no reduction in rates for our age, income & disability category which is given by San Diego Gas & Electric.

Blue L. Kest

Please read this letter to the public at the meeting as we cannot attend.

This is a shameful display of greediness in a governing agency that is an essential utility to our everyday living.

James & Bonnie Hester 1849 Goldenrod Lane Vista, Ca 92081

**Cc: CA Governor Newsom** 

Mike Levin, 49<sup>th</sup> District US Congress

Name	Job title	<u>Total pay &amp;</u> <u>benefits</u>
Brett Hodgkiss	General Manager  Vista Irrigation District, 2020	\$336,570.13
Don Smith	<u>Director Of Water Resources</u> Vista Irrigation District, 2020	\$291,582.62
<u>Frank Wolinski</u>	Director Of Operations & Field Services  Vista Irrigation District, 2020	\$278,782.77
Randy Whitmann	Director Of Engineering Vista Irrigation District, 2020	\$260,069.03
Marlene Kelleher	Director Of Administration  Vista Irrigation District, 2020	\$250,002.74
John Philip Zamora	Hr Manager Vista Irrigation District, 2020	\$241,906.81
Sherrel Thorpe	Saftey Risk Manager Vista Irrigation District, 2020	\$211,399.11
Gregory Keppler	Engineering Project Manager  Vista Irrigation District, 2020	\$203,761.39
<u>Donald Gordon</u>	Facilities Supervisor Vista Irrigation District, 2020	\$182,936.92
Ollie Dean Farris	Water Distribution Supervisor Vista Irrigation District, 2020	\$182,687.24
Manuel MacIas	Construction Supervisor  Vista Irrigation District, 2020	\$180,843.29
Mark Saltz	Water Resources Specialist Vista Irrigation District, 2020	\$175,220.02
<u>Gregory Bryant</u>	Cust Service Supervisor Vista Irrigation District, 2020	\$170,517.22
Steve Wuerth	System Controls Supervisor Vista Irrigation District, 2020	\$168,649.78

Vista Irrigation District, 2020

Gis Systems Associate

\$167,153.49

Ross Miles

<u>Name</u>	Job title	<u>Total pay &amp; benefits</u>
<u>Mark Meza</u>	Construction Supervisor Vista Irrigation District, 2020	\$166,373.60
Susan Montgomery	Senior Accountant Vista Irrigation District, 2020	\$162,418.06
<u>Brian Fisher</u>	Information Technology Supervisor Vista Irrigation District, 2020	\$161,808.48
<u>Christopher Weatherwax</u>	System Controls Technican Ii Vista Irrigation District, 2020	\$158,288.36
Nashallako Goodrick	Finance Supervisor Vista Irrigation District, 2020	\$158,165.05
Matt Atteberry	Engineering Services Manager Vista Irrigation District, 2020	\$157,085.67
<u>Farrokh Shahamiri</u>	Finance Associate  Vista Irrigation District, 2020	\$155,570.92
Benjamin Parks	Engineering Inspector Vista Irrigation District, 2020	\$154,970.41
<u>Lisa Soto</u>	Executive Assistant Board Secretary Vista Irrigation District, 2020	\$154,449.19
<u>Jeanette Bradshaw</u>	Engineering Specialist Ii Vista Irrigation District, 2020	\$154,337.32
Steven Tester	Senior Equipment Mechanic Vista Irrigation District, 2020	\$145,953.66
Rick Pooley	It Systems Administrator Vista Irrigation District, 2020	\$145,864.13
<u>Christina Moyer</u>	Purchasing Agent Vista Irrigation District, 2020	\$145,837.31
Christopher Craghead	System Controls Technican Iii Vista Irrigation District, 2020	\$141,435.62
Gary Arrasmith	Senior Facilities Worker	\$139,181.56

Vista Irrigation District, 2020

Name	Job title	Total pay & benefits
<u>Breona Paz</u>	Cust Service Supervisor Vista Irrigation District, 2020	\$137,286.07
Paul Dupree	Engineering Specialist Ii  Vista Irrigation District, 2020	\$137,096.55
Lee Hodges	Senior Construction Worker  Vista Irrigation District, 2020	\$134,428.56
Shannon Anzelon	Gis Specialist Vista Irrigation District, 2020	\$134,093.26
Richard Gangloff	Water Quality Operator Iii	¢124.010.04
rtienara Garrigion	Vista Irrigation District, 2020	\$134,019.04
<u>Richard Larsen</u>	Water Resource Supervisor Lake Henshaw Vista Irrigation District, 2020	\$132,386.78
Oscar David Chavez Torrez	Equipment Operator Vista Irrigation District, 2020	\$128,153.84
Brent Reyes	Water Conservation Specialist I  Vista Irrigation District, 2020	\$127,519.89
Steven van Camp	Welder Ii Vista Irrigation District, 2020	\$126,351.61
Steven Frey	Water Quality Operator Ii  Vista Irrigation District, 2020	\$124,318.15
John Rauch	System Operator Ii  Vista Irrigation District, 2020	\$122,328.74
Richard Setter	Equipment Operator Vista Irrigation District, 2020	\$121,733.12
<u>Christian Magill</u>	Water Resource Aide Vista Irrigation District, 2020	\$121,504.16
Yolanda Salazar	Senior Customer Service Representative Vista Irrigation District, 2020	\$119,805.97
Joel Gullingsrud	Construction Worker Vista Irrigation District, 2020	\$118,598.24

Name	Job title	Total pay & benefits
Susana Castro	Customer Service Representative Vista Irrigation District, 2020	\$118,291.68
Sonia Enriquez	Customer Service Representative Vista Irrigation District, 2020	\$117,936.64
Alisa Nichols	Management Analyst Vista Irrigation District, 2020	\$116,962.53
<u>Richard Martinez</u>	Construction Worker Vista Irrigation District, 2020	\$115,810.38
<u>Levi Marana</u>	Facilities Worker  Vista Irrigation District, 2020	\$115,657.01
	« Previous Next »	

Name

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# JAN 0 3 2022

VISTA IRRIG. DIST.

To whom it may concern at Vista Irrigation District,

This letter serves as a protest to the proposed rate increase that will affect our home at 1564 Green Oak Rd Vista CA, 92801, customer account# 4754-0550-02. Ryan Black and Monica May (owners) protest any rate increase, service charge increase and any modifications to the existing rate structure.

Ryan Black

Monica May

January 2, 2022

To: Vista Irrigation District Board

**RE: Opposition to Proposed Increase in Fees** 

As owner of four properties within VID, I am opposing the increase in fees based on just some of the following critical issues.

- 1. The proposed increase in fees have not been clearly stated. It would appear that the Board has purposefully tried to hide the true costs that are being proposed.
- 2. The structural reports included in this proposal are purposely misleading, trying to implicate that the original structural members within some of the existing storage structures were not built to meet minimum Code requirements, which is totally false.
- 3. The reports obviously show that the general maintenance of the storage facilities have been neglected by the Board while accumulating 18 million dollars in cash, and that the current Board cannot be trusted to prioritize the upkeep needs of the District.
- 4. Increased size or number of storage structures costs should be born by new User fees not existing customers.

**Eric Dennis** 

1361 Monte Dore Lane

1537 Monte Mar Rd

858 Maryland Dr

2219 Alta Vista Dr



**VISTA IRRIGATION DIST** 

### Inflationary Adjustments

My name is Apolonio Martinez. My location is 540 Raintree Dr. Vista, CA. My account number is 7287-0580-00. I want to voice my disagreement on the inflationary adjustment that is being planned. It would greatly affect families like myself who gets pay the minimum wage, are the only one in the family that brings in income, and has multiple bills to pay. This would only add to the amount of stress in having to pay a greater amount of money to be able to get water. We are already paying a very large percentage to the maintenance, repair and infrastructure. Inflation is increasing the price on everything and as employees we are not getting a raise to be able to pay for additional adjustments that are being planned. It seems that the payments are constantly being raised which brings problems to citizens when having to pay their bills whether that be utility bills which seems unfair to me. So please do not approve additional charges.

Best Regards,

Apolonio Martinez

RECEIVED

JAN 1 8 2022

VISTA IRRIG. DIST.

Received mystzz Morning y

### 10wheelspeed@cox.net

Subject:

Vista Irrigation District
January 19, 2022 - In Protest of Proposed Rate Increases

To: Secretary of the District's Board of Directors 1391 Engineer Street Vista, CA 92081 RECEIVED

JAN 1 9 2022

VISTA IRRIG. DIST.

**Customer Account Number: 5469-0310-00** 

We, Steven R. Farner, and Wendi A. Farner, property owners of 950 Ruby Drive, Vista, CA 92083, Parcel No. 162-450-07, do oppose any rate increases and rate structure modifications that are being considered at this time of Public Meeting to be held on January 19, 2022.

Costs to ratepayers are already exorbitant, and senior citizens such as we, who live on **fixed incomes**, cannot afford to continue to be hit with such increases. On record, it is known that Vista residents, of all ages, have the lowest median incomes in North County cities. **Water is a human necessity to survival**, that is to be accessible and affordable to all. It is provided **FREE** to "people experiencing another sort of home" in our state of California. Being born here in Vista, and remaining all our years so far, why should we basically, be forced out, by such continuing increases now?

At our address of **950 Ruby Dr., Vista, CA 92083**, we conserve to the max. To include of course, not flushing frequently... washing our vehicle in the rain, or, if not raining, using ONE small bucket of recycled vegetable rinse water. Watering door plants, using our clean water from washing vegetables or fruit, collecting water in the shower with a bucket le the water warms to use for either toilet flushing or watering outdoor potted plants. Using no running water from the faucet while brushing teeth, heavily reducing irrigation times, and living with an ugly dead yard, therefore losing the money we previously had spent on landscape. We also collect rainwater.

Yet the more conservation, the higher the rate goes, so what is the point in conservation efforts?

We routinely pay more for the service charge and storage fees, than for the units used.

Case in point: Bill dated May 12, 2021; 12 units used in Tier 1 = \$53.28

Storage fee:

8.48

**Service Charge:** 

81.94

Then, if people Use less, rates rise, because people are conserving, and said District charges more then, to make up for the conservation. Quite a joke.

What about all the new homes being jammed into the District? How does that figure into the equation? WHY do we allow more homes to be built, if the water needs cannot be met already? When homes and businesses are built, and you have thousands of new ratepayers, are they not contributing sufficiently to your monetary needs?

No doubt, the majority of ratepayers will not have taken the time to respond to this matter by way of writing, so here we go again.....

 ${\it categorically\ OPPOSE\ these\ Proposed\ Rate\ and\ Structure\ Adjustments\ Increases.}$ 

Sincerely,

1



1391 Engineer Street • Vista, California 92081-8840 Phone (760) 597-3100 • Fax: (760) 598-8757 www.vidwater.org

#### **Board of Directors**

Patrick H. Sanchez, President
Paul E. Dorey
Jo MacKenzie
Marty Miller
Richard L. Vásquez

#### **Administrative Staff**

Brett L. Hodgkiss

General Manager

Lisa R. Soto

**Board Secretary** 

December 14, 2021

Ramin Taghdiri 1770 Country Squire Vista, CA 92081

Re: Proposed Water Rate Increases

Dear Ramin Taghdiri,

Thank you for your letter in response to the Vista Irrigation District's (District) proposed water rate increases. Your position will be introduced for the record to the Board of Directors.

The District understands that water rate increases are never a welcome proposition and strives to keep water rates as low as possible. Before asking for rate increases, it is imperative that the District look at its expenses to make sure they are at a level that is necessary to maintain and operate the water system. The District is constantly evaluating processes and expenses in an attempt to create efficiencies and reduce costs. Since 2017, the District has eliminated several positions through the streamlining of processes and the use of technology; it is committed to working diligently to reduce costs where possible.

The proposed water rate increases are necessary to fund the maintenance, repair and replacement of the District's aging infrastructure, including pipelines, reservoirs and other appurtenances, ensuring it is able to continue to provide a reliable supply of high quality water to its customers. Additionally, the District must purchase water from the San Diego County Water Authority (Water Authority), a cost that the District cannot control. Over the years, the Water Authority has embarked on several large projects to increase water reliability and diversified their water supply sources to increase water reliability. However, improving reliability is expensive; a portion of the increase in the District's water rates reflects the Water Authority's pursuit of reliability as well as the operation and maintenance of its infrastructure that stores and delivers water to agencies throughout the San Diego region.

It is important to note that the District's Board of Directors has approved using rebates received from the Water Authority (related to its rate case litigation with the Metropolitan Water District of Southern California) to offset Water Authority rate increases over the next five years beginning in 2022. This will lessen the impact of the amount collected in 2022 and on future Water Authority pass-through rate increases.

As a governmental agency, and unlike a public utility such as San Diego Gas & Electric, the District does not make a profit or have shareholders and all revenues go back into the water system. This means that the revenue derived from the proposed changes will not exceed the cost to provide water service to its customers, and the revenues will not be used for any purpose other than paying for the District's operating and capital needs. Also, the District's rates are structured so that every customer pays his or her fair share of the cost of purchasing and delivering water, as is required by law.

If you would like to know how much your actual bill would change under the proposed water rates, you can use the District's online water bill calculator, which is available on the District's web site at <a href="https://www.vidwater.org">www.vidwater.org</a>. If you need assistance using the online calculator, or would like the District to calculate your average usage and average increase based on the past year, please contact Shallako Goodrick, Finance Supervisor, at (760) 597-3178 during regular office hours, Monday through Friday.

It is the mission of Vista Irrigation District to provide a reliable, safe supply of water and exceptional service for its customers at the lowest possible cost. We believe that the proposed increases will allow the District to make the investments in its operations and infrastructure necessary to fulfill its mission.

Sincerely,

Brett Hodgkiss General Manager



1391 Engineer Street • Vista, California 92081-8840 Phone (760) 597-3100 • Fax: (760) 598-8757 www.vidwater.org

#### **Board of Directors**

Patrick H. Sanchez, President
Paul E. Dorey
Jo MacKenzie
Marty Miller
Richard L. Vásquez

#### **Administrative Staff**

Brett L. Hodgkiss General Manager Lisa R. Soto Board Secretary

December 14, 2021

Justin & Jenny Windham 1502 Enchantment Ave Vista, CA 92081

Re: Proposed Water Rate Increases

Dear Justin and Jenny Windham,

Thank you for your letter in response to the Vista Irrigation District's (District) proposed water rate increases. Your position will be introduced for the record to the Board of Directors.

The District understands that water rate increases are never a welcome proposition and strives to keep water rates as low as possible. Before asking for rate increases, it is imperative that the District look at its expenses to make sure they are at a level that is necessary to maintain and operate the water system. The District is constantly evaluating processes and expenses in an attempt to create efficiencies and reduce costs. Since 2017, the District has eliminated several positions through the streamlining of processes and the use of technology; it is committed to working diligently to reduce costs where possible.

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Sincerely,

Brett Hodgkiss General Manager



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Marty Miller, President
Paul E. Dorey
Jo MacKenzie
Patrick H. Sanchez
Richard L. Vásquez

#### **Administrative Staff**

Brett L. Hodgkiss General Manager Lisa R. Soto Board Secretary

January 5, 2022

Ewa Wronska 165 Paseo Marguerita Vista, CA 92084

Re: Proposed Water Rate Increases

Dear Ewa Wronska,

Thank you for your letter in response to the Vista Irrigation District's (District) proposed water rate increases. Your position will be introduced for the record to the Board of Directors.

The District understands that water rate increases are never a welcome proposition and strives to keep water rates as low as possible. Before asking for rate increases, it is imperative that the District look at its expenses to make sure they are at a level that is necessary to maintain and operate the water system. The District is constantly evaluating processes and expenses in an attempt to create efficiencies and reduce costs. Since 2017, the District has eliminated several positions through the streamlining of processes and the use of technology; it is committed to working diligently to reduce costs where possible.

The proposed water rate and service charge increases are necessary to fund District operations as well as the maintenance, repair and replacement of the aging infrastructure, including pipelines, reservoirs and other appurtenances, ensuring the District is able to continue to provide a reliable supply of high quality water to its customers. The service charge recovers the District's customer service, repair and maintenance, and the majority of the infrastructure replacement costs, which exists regardless of the amount of water pumped and delivered. These costs continue without regard to the amount of water that a customer uses and are sometimes called "readiness-to-serve" charges. The largest component of the service charge recovers the cost of replacing the District's aging water system infrastructure.

Additionally, the District must purchase water from the San Diego County Water Authority (Water Authority), a cost that the District cannot control. Over the years, the Water Authority has embarked on several large projects to increase water reliability and diversified their water supply sources to increase water reliability. However, improving reliability is expensive; a portion of the increase in the District's water rates reflects the Water Authority's pursuit of reliability as well as the operation and maintenance of its infrastructure that stores and delivers water to agencies throughout the San Diego region.

It is important to note that the District's Board of Directors has approved using rebates received from the Water Authority (related to its rate case litigation with the Metropolitan Water District of Southern California) to offset Water Authority rate increases over the next five years beginning in 2022. This will lessen the impact of the amount collected in 2022 and on future Water Authority pass-through rate increases.

As a governmental agency, and unlike a public utility such as San Diego Gas & Electric (SDG&E), the District does not make a profit and revenue derived from the proposed changes will not exceed the cost to provide water service to its customers. This means that the revenue derived from the proposed changes will not exceed the cost to provide water service to its customers, and the revenues will not be used for any purpose other than paying for the District's operating and capital needs. Also, State law prohibits inter-ratepayer subsidies where individual customers are required to pay more than their actual cost of water so that other ratepayers may pay less; therefore, the District prohibited charging individual customers more for water to pay for financial assistance program, like the one offered by SDG&E, so that other customers may receive a discount.

If you would like to know how much your actual bill would change under the proposed water rates, you can use the District's online water bill calculator, which is available on the District's web site at <a href="https://www.vidwater.org">www.vidwater.org</a>. If you need assistance using the online calculator, or would like the District to calculate your average usage and average increase based on the past year, please contact Shallako Goodrick, Finance Supervisor, at (760) 597-3178 during regular office hours, Monday through Friday.

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Sincerely,

Brett Hodgkiss General Manager



1391 Engineer Street • Vista, California 92081-8840 Phone (760) 597-3100 • Fax: (760) 598-8757 www.vidwater.org

#### **Board of Directors**

Patrick H. Sanchez, President
Paul E. Dorey
Jo MacKenzie
Marty Miller
Richard L. Vásquez

#### **Administrative Staff**

Brett L. Hodgkiss General Manager Lisa R. Soto Board Secretary

December 21, 2021

Krystyna Voigt 443 Mason Road Vista CA 92084

Re: Proposed Water Rate and Service Charge Increases

Dear Krystyna Voigt,

Thank you for your letter in response to the Vista Irrigation District's (District) proposed water rate increases. Your position will be introduced for the record to the Board of Directors.

The District understands that water rate increases are never a welcome proposition and strives to keep water rates as low as possible. Before asking for rate increases, it is imperative that the District look at its expenses to make sure they are at a level that is necessary to maintain and operate the water system. The District is constantly evaluating processes and expenses in an attempt to create efficiencies and reduce costs. Since 2017, the District has eliminated several positions through the streamlining of processes and the use of technology; it is committed to working diligently to reduce costs where possible.

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Additionally, the District must purchase water from the San Diego County Water Authority (Water Authority), a cost that the District cannot control. Over the years, the Water Authority has embarked on several large projects to increase water reliability and diversified their water supply sources to increase water reliability. However, improving reliability is expensive; a portion of the increase in the District's water rates reflects the Water Authority's pursuit of reliability as well as the operation and maintenance of its infrastructure that stores and delivers water to agencies throughout the San Diego region.

It is important to note that the District's Board of Directors has approved using rebates received from the Water Authority (related to its rate case litigation with the Metropolitan Water District of Southern California) to offset Water Authority rate increases over the next five years beginning in 2022. This will lessen the impact of the amount collected in 2022 and on future Water Authority pass-through rate increases.

As a governmental agency, and unlike a public utility such as San Diego Gas & Electric, the District does not make a profit or have shareholders and all revenues go back into the water system. This means that the revenue derived from the proposed changes will not exceed the cost to provide water service to its customers, and the revenues will not be used for any purpose other than paying for the District's operating and capital needs. Also, the District's rates are structured so that every customer pays his or her fair share of the cost of purchasing and delivering water, as is required by law.

It is my understanding that Customer Service Supervisor Greg Bryant spoke with you recently about the size of the meter (2 inches) serving your property and provided you information about reducing the meter size, including the advantages and disadvantages of doing so. I hope the information provided was useful; please feel free to contact Mr. Bryant or Customer Service at (760) 597-3120 with any other additional questions.

It is the mission of Vista Irrigation District to provide a reliable, safe supply of water and exceptional service for its customers at the lowest possible cost. We believe that the proposed increases will allow the District to make the investments in its operations and infrastructure necessary to fulfill its mission.

Sincerely,

Brett Hodgkiss General Manager



1391 Engineer Street • Vista, California 92081-8840 Phone (760) 597-3100 • Fax: (760) 598-8757 www.vidwater.org

#### **Board of Directors**

Patrick H. Sanchez, President
Paul E. Dorey
Jo MacKenzie
Marty Miller
Richard L. Vásquez

#### **Administrative Staff**

Brett L. Hodgkiss General Manager Lisa R. Soto Board Secretary

December 22, 2021

Melissa and Colin Beamish 359 Cobalt Dr Vista, CA 92081

Re: Proposed Water Rate Increases

Dear Melissa and Colin Beamish,

Thank you for your letter in response to the Vista Irrigation District's (District) proposed water rate increases. Your position will be introduced for the record to the Board of Directors.

The District understands that water rate increases are never a welcome proposition and strives to keep water rates as low as possible. Before asking for rate increases, it is imperative that the District look at its expenses to make sure they are at a level that is necessary to maintain and operate the water system. The District is constantly evaluating processes and expenses in an attempt to create efficiencies and reduce costs. Since 2017, the District has eliminated several positions through the streamlining of processes and the use of technology; it is committed to working diligently to reduce costs where possible.

The proposed water rate and service charge increases are necessary to fund District operations as well as the maintenance, repair and replacement of the aging infrastructure, including pipelines, reservoirs and other appurtenances, ensuring the District is able to continue to provide a reliable supply of high quality water to its customers. The service charge recovers the District's customer service, repair and maintenance, and the majority of the infrastructure replacement costs, which exists regardless of the amount of water pumped and delivered. These costs continue without regard to the amount of water that a customer uses and are sometimes called "readiness-to-serve" charges. The largest component of the service charge recovers the cost of replacing the District's aging water system infrastructure.

Additionally, the District must purchase water from the San Diego County Water Authority (Water Authority), a cost that the District cannot control. Over the years, the Water Authority has embarked on several large projects to increase water reliability and diversified their water supply sources to increase water reliability. However, improving reliability is expensive; a portion of the increase in the District's water rates reflects the Water Authority's pursuit of reliability as well as the operation and maintenance of its infrastructure that stores and delivers water to agencies throughout the San Diego region.

It is important to note that the District's Board of Directors has approved using rebates received from the Water Authority (related to its rate case litigation with the Metropolitan Water District of Southern California) to offset Water Authority rate increases over the next five years beginning in 2022. This will lessen the impact of the amount collected in 2022 and on future Water Authority pass-through rate increases.

As a governmental agency, and unlike a public utility such as San Diego Gas & Electric, the District does not make a profit or have shareholders and all revenues go back into the water system. This means that the revenue derived from the proposed changes will not exceed the cost to provide water service to its customers, and the revenues will not be used for any purpose other than paying for the District's operating and capital needs. Also, the District's rates are structured so that every customer pays his or her fair share of the cost of purchasing and delivering water, as is required by law.

If you would like to know how much your actual bill would change under the proposed water rates, you can use the District's online water bill calculator, which is available on the District's web site at <a href="www.vidwater.org">www.vidwater.org</a>. If you need assistance using the online calculator, or would like the District to calculate your average usage and average increase based on the past year, please contact Shallako Goodrick, Finance Supervisor, at (760) 597-3178 during regular office hours, Monday through Friday.

It is the mission of Vista Irrigation District to provide a reliable, safe supply of water and exceptional service for its customers at the lowest possible cost. We believe that the proposed increases will allow the District to make the investments in its operations and infrastructure necessary to fulfill its mission.

Sincerely,

Brett Hodgkiss General Manager



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Richard L. Vásquez

#### **Administrative Staff**

Brett L. Hodgkiss General Manager Lisa R. Soto Board Secretary

January 5, 2022

James & Bonnie Hester 1849 Goldenrod Ln Vista, CA 92081

Re: Proposed Water Rate Increases

Dear James & Bonnie Hester,

Thank you for your letter in response to the Vista Irrigation District's (District) proposed water rate increases. Your position will be introduced for the record to the Board of Directors.

The District understands that water rate increases are never a welcome proposition and strives to keep water rates as low as possible. Before asking for rate increases, it is imperative that the District look at its expenses to make sure they are at a level that is necessary to maintain and operate the water system. The District is constantly evaluating processes and expenses in an attempt to create efficiencies and reduce costs. Since 2017, the District has eliminated several positions through the streamlining of processes and the use of technology; it is committed to working diligently to reduce costs, where possible, while retaining a highly qualified workforce to operate and maintain the systems that deliver high-quality water to its customers.

The proposed water rate and service charge increases are necessary to fund District operations as well as the maintenance, repair and replacement of the aging infrastructure, including pipelines, reservoirs and other appurtenances, ensuring the District is able to continue to provide a reliable supply of high quality water to its customers. The service charge recovers the District's customer service, repair and maintenance, and the majority of the infrastructure replacement costs, which exists regardless of the amount of water pumped and delivered. These costs continue without regard to the amount of water that a customer uses and are sometimes called "readiness-to-serve" charges. The largest component of the service charge recovers the cost of replacing the District's aging water system infrastructure.

Additionally, the District must purchase water from the San Diego County Water Authority (Water Authority), a cost that the District cannot control. Over the years, the Water Authority has embarked on several large projects to increase water reliability and diversified their water supply sources to increase water reliability. However, improving reliability is expensive; a portion of the increase in the District's water rates reflects the Water Authority's pursuit of reliability as well as the operation and maintenance of its infrastructure that stores and delivers water to agencies throughout the San Diego region.

It is important to note that the District's Board of Directors has approved using rebates received from the Water Authority (related to its rate case litigation with the Metropolitan Water District of Southern California) to offset Water Authority rate increases over the next five years beginning in 2022. This will lessen the impact of the amount collected in 2022 and on future Water Authority pass-through rate increases.

As a governmental agency, and unlike a public utility such as San Diego Gas & Electric (SDG&E), the District does not make a profit and revenue derived from the proposed changes will not exceed the cost to provide water service to its customers. This means that the revenue derived from the proposed changes will not exceed the cost to provide water service to its customers, and the revenues will not be used for any purpose other than paying for the District's operating and capital needs. Also, State law prohibits inter-ratepayer subsidies where individual customers are required to pay more than their actual cost of water so that other ratepayers may pay less; therefore, the District prohibited charging individual customers more for water to pay for financial assistance program, like the one offered by SDG&E, so that other customers may receive a discount.

If you would like to know how much your actual bill would change under the proposed water rates, you can use the District's online water bill calculator, which is available on the District's web site at <a href="https://www.vidwater.org">www.vidwater.org</a>. If you need assistance using the online calculator, or would like the District to calculate your average usage and average increase based on the past year, please contact Shallako Goodrick, Finance Supervisor, at (760) 597-3178 during regular office hours, Monday through Friday.

It is the mission of Vista Irrigation District to provide a reliable, safe supply of water and exceptional service for its customers at the lowest possible cost. We believe that the proposed increases will allow the District to make the investments in its operations and infrastructure necessary to fulfill its mission.

Sincerely,

Brett Hodgkiss General Manager



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#### **Board of Directors**

Marty Miller, President
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#### **Administrative Staff**

Brett L. Hodgkiss General Manager Lisa R. Soto Board Secretary

January 5, 2022

Ryan Black & Monica May 1564 Green Oak Vista, CA 92081

Re: Proposed Water Rate Increases

Dear Ryan Black & Monica May,

Thank you for your letter in response to the Vista Irrigation District's (District) proposed water rate increases. Your position will be introduced for the record to the Board of Directors.

The District understands that water rate increases are never a welcome proposition and strives to keep water rates as low as possible. Before asking for rate increases, it is imperative that the District look at its expenses to make sure they are at a level that is necessary to maintain and operate the water system. The District is constantly evaluating processes and expenses in an attempt to create efficiencies and reduce costs. Since 2017, the District has eliminated several positions through the streamlining of processes and the use of technology; it is committed to working diligently to reduce costs where possible.

The proposed water rate and service charge increases are necessary to fund District operations as well as the maintenance, repair and replacement of the aging infrastructure, including pipelines, reservoirs and other appurtenances, ensuring the District is able to continue to provide a reliable supply of high quality water to its customers. The service charge recovers the District's customer service, repair and maintenance, and the majority of the infrastructure replacement costs, which exists regardless of the amount of water pumped and delivered. These costs continue without regard to the amount of water that a customer uses and are sometimes called "readiness-to-serve" charges. The largest component of the service charge recovers the cost of replacing the District's aging water system infrastructure.

Additionally, the District must purchase water from the San Diego County Water Authority (Water Authority), a cost that the District cannot control. Over the years, the Water Authority has embarked on several large projects to increase water reliability and diversified their water supply sources to increase water reliability. However, improving reliability is expensive; a portion of the increase in the District's water rates reflects the Water Authority's pursuit of reliability as well as the operation and maintenance of its infrastructure that stores and delivers water to agencies throughout the San Diego region.

It is important to note that the District's Board of Directors has approved using rebates received from the Water Authority (related to its rate case litigation with the Metropolitan Water District of Southern California) to offset Water Authority rate increases over the next five years beginning in 2022. This will lessen the impact of the amount collected in 2022 and on future Water Authority pass-through rate increases.

As a governmental agency, and unlike a public utility such as San Diego Gas & Electric, the District does not make a profit or have shareholders and all revenues go back into the water system. This means that the revenue derived from the proposed changes will not exceed the cost to provide water service to its customers, and the revenues will not be used for any purpose other than paying for the District's operating and capital needs. Also, the District's rates are structured so that every customer pays his or her fair share of the cost of purchasing and delivering water, as is required by law.

If you would like to know how much your actual bill would change under the proposed water rates, you can use the District's online water bill calculator, which is available on the District's web site at <a href="https://www.vidwater.org">www.vidwater.org</a>. If you need assistance using the online calculator, or would like the District to calculate your average usage and average increase based on the past year, please contact Shallako Goodrick, Finance Supervisor, at (760) 597-3178 during regular office hours, Monday through Friday.

It is the mission of Vista Irrigation District to provide a reliable, safe supply of water and exceptional service for its customers at the lowest possible cost. We believe that the proposed increases will allow the District to make the investments in its operations and infrastructure necessary to fulfill its mission.

Sincerely,

Brett Hodgkiss General Manager



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#### **Board of Directors**

Marty Miller, President
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#### **Administrative Staff**

Brett L. Hodgkiss General Manager Lisa R. Soto Board Secretary

January 11, 2022

Eric Dennis 1361 Monte Dore Lane Vista CA 92094

Re: Proposed Water Rate Increases

Dear Eric Dennis.

Thank you for your letter in response to the Vista Irrigation District's (District) proposed water rate increases. Your position will be introduced for the record to the Board of Directors for the four properties noted in your letter.

The District understands that water rate increases are never a welcome proposition and strives to keep water rates as low as possible. Before asking for rate increases, it is imperative that the District look at its expenses to make sure they are at a level that is necessary to maintain and operate the water system. The District is constantly evaluating processes and expenses in an attempt to create efficiencies and reduce costs. Since 2017, the District has eliminated several positions through the streamlining of processes and the use of technology; it is committed to working diligently to reduce costs where possible.

The proposed water rate and service charge increases are necessary to fund District operations as well as the maintenance, repair and replacement of the aging infrastructure, including pipelines, reservoirs and other appurtenances, ensuring the District is able to continue to provide a reliable supply of high quality water to its customers. The service charge recovers the District's customer service, repair and maintenance, and the majority of the infrastructure replacement costs, which exists regardless of the amount of water pumped and delivered. These costs continue without regard to the amount of water that a customer uses and are sometimes called "readiness-to-serve" charges. The largest component of the service charge recovers the cost of replacing the District's aging water system infrastructure.

The structural report excerpts found in the Water Rate Study do, in part, compare the structures against minimum code requirements that are in place today; these reservoirs were built in the 1920's and 1970's and were to code at the time but reservoir rehabilitation and/or replacement improvements will need to consider current code requirements. Also, increases in the size or number of storage structures is based on the existing and future needs of the entire system, and new users do pay a capacity fee to buy in for their portion of the existing system and future projects. The District's estimated future growth contributing to the service area build-out demand is low, so a small number of expansion-based projects are identified and the capital improvement program instead focuses on system reliability, redundancy and replacing aging infrastructure.

Additionally, the District must purchase water from the San Diego County Water Authority (Water Authority), a cost that the District cannot control. Over the years, the Water Authority has embarked on several large projects to increase water reliability and diversified their water supply sources to increase water reliability. However, improving reliability is expensive; a portion of the increase in the District's water rates reflects the Water Authority's pursuit of reliability as well as the operation and maintenance of its infrastructure that stores and delivers water to agencies throughout the San Diego region.

It is important to note that the District's Board of Directors has approved using rebates received from the Water Authority (related to its rate case litigation with the Metropolitan Water District of Southern California) to offset Water Authority rate increases over the next five years beginning in 2022. This will lessen the impact of the amount collected in 2022 and on future Water Authority pass-through rate increases.

As a governmental agency, and unlike a public utility such as San Diego Gas & Electric, the District does not make a profit or have shareholders and all revenues go back into the water system. This means that the revenue derived from the proposed changes will not exceed the cost to provide water service to its customers, and the revenues will not be used for any purpose other than paying for the District's operating and capital needs. Also, the District's rates are structured so that every customer pays his or her fair share of the cost of purchasing and delivering water, as is required by law.

If you would like to know how much your actual bill would change under the proposed water rates, you can use the District's online water bill calculator, which is available on the District's web site at <a href="https://www.vidwater.org">www.vidwater.org</a>. If you need assistance using the online calculator, or would like the District to calculate your average usage and average increase based on the past year, please contact Shallako Goodrick, Finance Supervisor, at (760) 597-3178 during regular office hours, Monday through Friday.

It is the mission of Vista Irrigation District to provide a reliable, safe supply of water and exceptional service for its customers at the lowest possible cost. We believe that the proposed increases will allow the District to make the investments in its operations and infrastructure necessary to fulfill its mission.

Sincerely,

Brett Hodgkiss General Manager

#### 4.4 RATES, SERVICE CHARGES AND FEES

Adoption Date:	<del>10/7/2020</del>
Action:	Approved by the VID Board of Directors, Minute Order No. xx-xx-xx20 10 87;
	Resolution <u>xx-xx<sup>20-28</sup></u>

#### 4.4.1 Purpose

The purpose of this policy is to establish water rates and service related charges for services provided by the District.

#### 4.4.2 Water Rate Definitions

#### A. Billing Period

There are six Billing Periods per year, approximating two months each, which may vary by days from one period to another.

#### B. Service Charge

A flat charge to each account, based on meter size, which recovers the fixed costs of the District operations.

#### C. San Diego County Water Authority (CWA) Fee

A flat fee charged by the CWA to each account based on meter size, which recovers CWA's infrastructure access charge.

#### D. Willful Misrepresentation

Purposeful presentation of a material fact for the purpose of securing a rate, allotment or special benefit for an unqualified account.

#### 4.4.3 Water Rates and Service Related Charges (Revised 11-1-17; Resolution 17-40)

A. Pass Through of Wholesale Water and Water-Related Service Fees and Charges

All San Diego County Water Authority (CWA) fees and charges for wholesale water and water-related services shall be passed through to Vista Irrigation District customers. The automatic pass through of costs is for a period of five years, terminating on <u>December 31, 2026 October 18, 2022</u>. These pass throughs shall be calculated by dividing the total billings from CWA for usage charges by the quantity of budgeted water sales.

#### B. Annual Water Rate Adjustment

Effective each July 1, the District's water rates will be adjusted to reflect inflationary costs. Such increases shall be calculated as an increase equal to the amount of the increase in the U.S. Department of Labor's Consumer Price Index – All Urban Consumers – San Diego, California for the previous calendar year ended. These adjustments shall be reflected on invoices sent on or after July 1 of each of the following years: 2023, 2024, 2025 and 2026. 2018, 2019, 2020, 2021, and 2022.

#### C. Water Rate Structure

The District has established a water rate structure consisting of three tiers for all water usage except for participants in the Special Agricultural Water Rate (SAWR). Participants in SAWR will be billed at a flat rate. Monthly water allocations for the three tiered rates will be determined by meter size according to the following table.

	Mo	onthly Allocation	
Meter Size	Tier 1	Tier 2	Tier 3
<sup>5</sup> / <sub>8</sub> "	0- <u>4</u> 7	<u>8_5</u> -42	43+
3/4"	0- <u>6</u> <del>10</del>	<del>11</del> <u>7</u> -60	61+
1"	0- <u>15 <del>25</del></u>	<del>26</del> <u>16</u> -150	151+
1 <sup>1</sup> /2"	0- <u>30 <del>50</del></u>	<del>51</del> <u>31</u> -300	301+
2"	0- <u>48</u> 80	<del>81</del> <u>49</u> -480	481+
3"	0- <u>96</u> <del>160</del>	<del>161</del> <u>97</u> -960	961+
4"	0- <u>150</u> <del>250</del>	<del>251</del> <u>151</u> -1,500	1,501+
6"	0- <u>300</u> <del>500</del>	<del>501</del> <u>301</u> -3,000	3,001+
8"	0- <u>480</u> <del>800</del>	<del>801</del> <u>481</u> -4,800	4,801+
10"	0- <u>690</u> <del>1,150</del>	<del>1,151</del> <u>691</u> -6,900	6,901+

#### D. Water Usage Charge

Water use will be charged according to the following table, however the Tier 3 rate will only be imposed during times of water delivery cutbacks imposed by the San Diego County Water Authority. When no water delivery cutbacks are imposed by the Water Authority, Tier 3 usage will be billed at the Tier 2 rate.

<u>Tier</u>	Rate Per Unit*	
Tier 1	\$ 4.44 <u>4.72</u>	
Tier 2	4 <del>.98</del> 5.19	
Tier 3**	4 <del>.98</del> 5.19	

#### Agricultural Water Programs

<u>Program</u>	Rate Per Unit*	
SAWR	\$	3.91 <u>4.10</u>
Domestic usage		4 <del>.76</del> 5.03

- \* 1 unit = 748 Gallons
- \*\* Tier 3 usage will be billed at the tier 2 rate when no delivery cutbacks are imposed.

#### E. Service Charge

Meter Size	Monthly Charge
5/8"	\$ <del>31.75</del> <u>32.82</u>
$^{3}/_{4}$ " or $^{3}/_{4}$ " x 1"	41.8843.30
1"	<del>61.89</del> <u>63.98</u>
1½"	<del>112.34</del> <u>116.14</u>
2"	<del>172.66</del> 178.50
3"	<del>333.57</del> 344.85
4"	<del>514.49</del> <u>531.89</u>
6"	<del>1,218.45</del> <u>1,259.65</u>
8"	<del>1,620.90</del> <u>1,675.71</u>
10"	<del>2,425.46</del> 2,507.47

#### F. San Diego County Water Authority (CWA) Fee

Meter Size	Monthly Charge
5/8**	\$4.24
<sup>3</sup> / <sub>4</sub> " or <sup>3</sup> / <sub>4</sub> " x 1"	4.24
1"	6.78
1½"	12.72
2"	22.05
3"	40.70
4"	69.54
6"	127.20
8"	220.48
10"	330.72

#### G. Locked Meters

The Service Charge and other fixed charges on locked meters shall be twenty-five percent (25%) of the regular charges for that account.

#### H. Construction Water

All construction water delivered via a construction meter shall be billed at the highest water rate tier and applicable Service Charge.

#### I. Fire Connection Services

Fire protection connection services, both metered and unmetered, shall be charged the Service Charge applicable to a 5/8" meter. All water used through the detector meter or a metered connection shall be billed at the Water Usage Charge for water.

#### J. Agricultural Water Programs

A discounted Water Usage Charge will be applied to each individual qualifying agricultural account in an amount equal to the agricultural water rate and/or other reduced charges from the San Diego County Water Authority (CWA). The District will use a melded rate, based on the agricultural water rates and other reduced charges for treated and untreated water, as the discount. Adjustments to the agricultural program rates will be concurrent with any adjustments to CWA agricultural water rates and other charges for treated and untreated water. Resolution No. 21-43 is hereby made a part of these Rules and Regulations by reference.

#### **RESOLUTION NO. 22-XX**

#### RESOLUTION OF THE BOARD OF DIRECTORS

OF VISTA IRRIGATION DISTRICT ADOPTING MODIFICATIONS TO THE TIERED WATER RATE STRUCTURE; INCREASES TO WATER RATES AND SERVICE CHARGE; APPROVING THE PASS THROUGH OF SAN DIEGO COUNTY WATER AUTHORITY COSTS AND ANNUAL INFLATIONARY ADJUSTMENTS FOR A FIVE YEAR PERIOD AND AMENDING CERTAIN PROVISIONS OF THE DISTRICT'S RULES AND REGULATIONS RELATIVE TO WATER RATES AND SERVICE CHARGES

WHEREAS, District staff has prepared a Water Rate Study wherein District staff has undertaken a comprehensive analysis of the District's costs to provide water service, fund near-term and long-term capital facilities and improvement needs, and maintain an adequate level of reserves and has recommended the pass through of water costs from the San Diego County Water Authority (Water Authority) and annual inflationary adjustments to the water rates (Rate Adjustment Policy) and increases to water rates and service fees; and

WHEREAS, District staff mailed a notice to all property owners and water customers within the District's service area, informing the recipients of the District's consideration of the proposed the Rate Adjustment Policy, including the basis and reason for said policy, the lands subject to the proposed policy, and the recipients' opportunity to attend and provide testimony on the proposed rate increases and tier allotment modifications at a public hearing scheduled for January 19, 2022 at the District office; and

WHEREAS, in accordance with Government Code Section 66016, District staff provided notice at least 14 days prior to the public hearing to individuals or entities who previously requested to be notified of changes to fees and charges and also made available calculations supporting the charges at least ten days prior to the public hearing; and

WHEREAS, a Notice of Public Hearing was duly published in The San Diego Union-Tribune, a newspaper of general circulation in the District's service area, on January 10, 2022 and January 16, 2022; and

WHEREAS, the Board of Directors conducted a duly noticed public hearing, reviewed the District staff analysis regarding the need for the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and the Rate Adjustment Policy, considered all evidence and testimony submitted at such public hearing, and accepted protests filed prior to the close of the public hearing; and

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby resolve as follows:

<u>SECTION 1</u>. The foregoing recitals are true and correct.

SECTION 2. The Board of Directors finds and determines that there were protests filed against the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and the Rate Adjustment Policy prior to the close of

the public hearing. The Board of Directors therefore finds and determines that a majority of the property owners, residents and water users within the District's service area have not filed with or presented to the District written protests against the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and renewal of the Rate Adjustment Policy, and that there thus is no successful property owner protest to the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and renewal of the Rate Adjustment Policy.

- <u>SECTION 3</u>. Based upon the analysis prepared by District staff and summarized in the staff report and the Water Rate Study regarding the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and the Rate Adjustment Policy, the Board of Directors finds and determines as follows:
  - (a) The revenues derived from the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and the Rate Adjustment Policy do not exceed the funds required to provide District domestic and irrigation water service to the lands, residents and water users within the District's service area;
  - (b) The revenues derived from the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and the Rate Adjustment Policy are not used for any purpose other than to provide District domestic and irrigation water service to the lands, residents and water users within the District's service area;
  - (c) The amount of the proposed water rates to be imposed upon any parcel or person does not exceed the proportional cost of the water service attributable to such parcel or person;
  - (d) The entirety of the proposed water rates will be imposed only for water service actually used by, or immediately available to, the property owner, resident or water user, and the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and the Rate Adjustment Policy does not contain any fees or charges based on potential or future use of a service; and
  - (e) No part of the proposed increases to the water rates and service charge, modifications to the tiered water rate structure allotments and the Rate Adjustment Policy will be imposed for general governmental services, where the service is available to the public at large in substantially the same manner as it is to the property owners, residents and water users of the District.
- SECTION 4. The increases to the water rates and service charge, modifications to the tiered water rate structure allotments and the Rate Adjustment Policy, as proposed by District staff and described in the notice for the January 19, 2022 public hearing, are hereby approved.
- SECTION 5. The District's Rules and Regulations are hereby amended as follows to incorporate the approved increases to the water rates and service charge, modifications to the tiered water rate structure allotments and renewal of the Rate Adjustment Policy:

#### 4.4 RATES, SERVICE CHARGES AND FEES

#### 4.4.1 Purpose

The purpose of this policy is to establish water rates and service related charges for services provided by the District.

#### 4.4.2 Water Rate Definitions

#### A. Billing Period

There are six Billing Periods per year, approximating two months each, which may vary by days from one period to another.

#### B. Service Charge

A flat charge to each account, based on meter size, which recovers the fixed costs of the District operations.

#### C. San Diego County Water Authority (CWA) Fee

A flat fee charged by the CWA to each account based on meter size, which recovers CWA's infrastructure access charge.

#### D. Willful Misrepresentation

Purposeful presentation of a material fact for the purpose of securing a rate, allotment or special benefit for an unqualified account.

#### 4.4.3 Water Rates and Service Related Charges

### A. Pass Through of Wholesale Water and Water-Related Service Fees and Charges

All San Diego County Water Authority (CWA) fees and charges for wholesale water and water-related services shall be passed through to Vista Irrigation District customers. The automatic pass through of costs is for a period of five years, terminating on December 31, 2026. These pass throughs shall be calculated by dividing the total billings from CWA for usage charges by the quantity of budgeted water sales.

#### B. Annual Water Rate Adjustment

Effective each July 1, the District's water rates will be adjusted to reflect inflationary costs. Such increases shall be calculated as an increase equal to

the amount of the increase in the U.S. Department of Labor's Consumer Price Index – All Urban Consumers – San Diego, California for the previous calendar year ended. These adjustments shall be reflected on invoices sent on or after July 1 of each of the following years: 2023, 2024, 2025 and 2026.

#### C. Water Rate Structure (Effective on water bills on or after 4/1/22)

The District has established a water rate structure consisting of three tiers for all water usage except for participants in the Special Agricultural Water Rate (SAWR). Participants in SAWR will be billed at a flat rate. Monthly water allocations for the three tiered rates will be determined by meter size according to the following table.

	Monthly Allocation		
Meter Size	<u>Tier 1</u>	Tier 2	Tier 3
<sup>5</sup> / <sub>8</sub> "	0-4	5-42	43+
3/4"	0-6	7-60	61+
1"	0-15	16-150	151+
$1^{1}/_{2}$ "	0-30	31-300	301+
2"	0-48	49-480	481+
3"	0-96	97-960	961+
4"	0-150	151-1,500	1,501+
6"	0-300	301-3,000	3,001+
8"	0-480	481-4,800	4,801+
10"	0-690	691-6,900	6,901+

#### D. Water Usage Charge (Effective on water bills on or after 4/1/22)

Water use will be charged according to the following table, however the Tier 3 rate will only be imposed during times of water delivery cutbacks imposed by the San Diego County Water Authority. When no water delivery cutbacks are imposed by the Water Authority, Tier 3 usage will be billed at the Tier 2 rate.

<u>Tier</u>	Rate Per Unit <sup>*</sup>	k
Tier 1	\$ 4.72	
Tier 2	5.19	
Tier 3**	5.19	

#### Agricultural Water Programs

<u>Program</u>	Rate P	er Unit*
SAWR	\$	4.10
Domestic usage		5.03

<sup>\*</sup> 1 unit = 748 Gallons

<sup>\*\*</sup> Tier 3 usage will be billed at the tier 2 rate when no delivery cutbacks are imposed.

#### E. Service Charge (Effective on water bills on or after 4/1/22)

Meter Size	Monthly Charge
5/8"	\$ 32.82
$^{3}/_{4}$ " or $^{3}/_{4}$ " x 1"	43.30
1"	63.98
1½"	116.14
2"	178.50
3"	344.85
4"	531.89
6"	1,259.65
8"	1,675.71
10"	2,507.47

#### F. San Diego County Water Authority (CWA) Fee

Meter Size	Monthly Charge
5/8"	\$4.24
<sup>3</sup> / <sub>4</sub> " or <sup>3</sup> / <sub>4</sub> " x 1"	4.24
1"	6.78
1½"	12.72
2"	22.05
3"	40.70
4"	69.54
6"	127.20
8"	220.48
10"	330.72

#### G. Locked Meters

The Service Charge and other fixed charges on locked meters shall be twenty-five percent (25%) of the regular charges for that account.

#### H. Construction Water

All construction water delivered via a construction meter shall be billed at the highest water rate tier and applicable Service Charge.

#### I. Fire Connection Services

Fire protection connection services, both metered and unmetered, shall be charged the Service Charge applicable to a 5/8" meter. All water used through the detector meter or a metered connection shall be billed at the Water Usage Charge for water.

#### J. Agricultural Water Programs

A discounted Water Usage Charge will be applied to each individual qualifying agricultural account in an amount equal to the agricultural water rate and/or other reduced charges from the San Diego County Water Authority (CWA). The District will use a melded rate, based on the agricultural water rates and other reduced charges for treated and untreated water, as the discount. Adjustments to the agricultural program rates will be concurrent with any adjustments to CWA agricultural water rates and other charges for treated and untreated water. Resolution No. 21-43 is hereby made a part of these Rules and Regulations by reference.

SECTION 6. Based upon the staff report and the testimony and evidence presented at the public hearing, the Board of Directors finds and declares that the renewal of the Rate Adjustment Policy approved by this Resolution do not constitute a "project" within the meaning of the California Environmental Quality Act ("CEQA") and are exempt from CEQA under Public Resources Code Section 21080(b)(8) and State CEQA Guidelines §§ 15378(b)(4) and 15273, because the renewal of the Rate Adjustment Policy: (a) involve the creation of government funding mechanisms or other government fiscal activities which do not involve any commitment to any specific project which may result in a potentially significant physical impact on the environment; and (b) are for the purposes of meeting operating expenses (including employee wage rates and fringe benefits), purchasing or leasing supplies, equipment or materials, meeting financial reserve needs and requirements, and obtaining funds for capital projects necessary to maintain the level of service within the District's existing boundaries. The District staff is hereby authorized and directed to file a Notice of Exemption with the County Clerk of the County of San Diego.

<u>SECTION 7</u>. The Board of Directors reserves the right to amend or modify this Resolution at any time, upon proper notice.

PASSED AND ADOPTED by the following roll call vote of the Board of Directors for the Vista Irrigation District this 19<sup>th</sup> day of January 2022.

AYES:	
NOES:	
ABSTAIN:	
ABSENT:	
	M ( M'11 D '11 (
	Marty Miller, President
ATTEST:	
Lisa R. Soto, Secretary	
Board of Directors	
VISTA IRRIGATION DISTRICT	

# VID Water Rates and Tiered Water Rate Structure

**January 19, 2022** 

### **Presentation Outline**

- Water Rate Study Methodology
- Capital Improvement Reserve Fund
- Proposed New Tiered Allotment with New Water Rates
- Comparison to other Water Agencies

### Water Rate Study Methodology

#### Five-Year Projection – Current Water Rates

	Budget	Projected	Projected	Projected	Projected	Projected	Total
Financial	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	
Revenue Water Sales/Emergency Storage Fee	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	
Revenue Service Fee	17,500,000	17,957,533	18,491,583	19,107,992	19,744,948	20,403,137	
Revenue All Others	3,241,900	3,473,430	3,548,193	3,635,110	3,724,309	3,815,850	
Revenue Total	54,862,900	55,551,962	56,160,776	56,864,101	57,590,257	58,339,987	
Expenses less Depreciation	44,682,700	45,186,674	45,783,333	46,466,237	47,098,503	47,740,734	
Net	10,180,200	10,365,288	10,377,443	10,397,865	10,491,754	10,599,253	
Captial Projects	15,429,000	25,258,275	8,331,880	9,281,674	10,017,727	10,356,065	
Contribution to or (Use of) Capital							
Improvement Reserves	(5,248,800)	(14,892,987)	2,045,563	1,116,191	474,027	243, 188	(16,262,819)

#### Projected Reserve Balance as of 06/30/27

Cash Balance Actual 06/30/2021	Amount
Emergency and Contingency Reserve	\$ 10,000,000
Working Capital Reserve	10,000,000
Surplus Supplemental Water	4,595,222
Water Rebate	1,571,006
Capital Improvement Reserve	20,346,496
Total Cash Balance	46,512,724
Capital Improvement Reserve 06/30/2021	\$ 20,346,496
Contribution to or (Use of) Capital Improvement	
Reserves through Fiscal Year 2027	(16,262,819)
Projected Capital Improvement Reserve Balance	
as of 06/30/2027	4,083,678

- Projection is based on FY 2022 Budget.
- Uses average San Diego Consumer Price Index (CPI) adjustments to project forward.
- Purchased water expense and water rates held constant since Water Authority increases/decreases are passed through to customers.
- Assumes San Diego CPI (inflationary adjustment) to service fees annually.

### Capital Improvement Reserve Fund

- Currently no required Capital Improvement Reserve Funding level.
- To calculate an annual minimum Capital Improvement Reserve Fund, current asset values were adjusted by Engineering News Record inflation to 2021 year values and divided by each assets life to determine each assets annual value.
- Analysis shows a minimum of \$13.2 million should be maintained in the Capital Improvement Reserve Fund.

<b>Capital Assets Current Value</b>					
Туре	Annual Cost				
Bldg	970,972				
Canals	380,262				
Const	356,268				
Copiers	7,026				
Dam	1,067,362				
Filt Plant	819,423				
IT	118,860				
Land					
Misc	116,708				
Pipe	3,886,379				
Pipe Contr	1,905,077				
Pump Sta	109,779				

Reg Sta	100,534	
Res	671,692	
SCADA	57,526	
Trt Plant	60,974	
Trucks	565,722	
Valves	13,088	
Vehicles	37,522	
Wells	621,449	Potential Tier 2
Flume	1,064,160	Potential Tier 2
Pechstein II New	300,000	Potential Tier 2
Total	13,230,783	

# Proposed New Tiered Allotment with New Water Rates

Tiers updated using 2009 methodology-

- 50% average usage for a 3/4-inch meter is the basis for the Tier 1 allotment; used FY 2019 actual water consumption.
- Hydraulic capacity of other meter sizes used to determine their respective Tier 1 allotments.
- Keep Tier 2 maximum and Tier 3 at current allotments.

	Current Tier 1	Proposed Tier 1	
Meter Size	Allotment	Allotment	Difference
5/8	7	4	3
3/4	10	6	4
1	25	15	10
1 1/2	50	30	20
2	80	48	32
3	160	96	64
4	250	150	100
6	500	300	200
8	800	480	320
10	1150	690	460

# Proposed New Tiered Allotment with New Water Rates (continued)

- Allow the automatic pass-through of all San Diego County Water Authority fees and charges for wholesale water and water related services.
- Allow an inflationary adjustment (based on San Diego Consumer Price Index) to District water rates (service charge) annually on July 1; forgo the increase on 07/01/22.
- Effective on bills mailed after 04/01/22, increase the Tier 1 water rate to \$4.76; Tier 2 water rate to \$5.23; Tier 3 water rate to \$5.23.

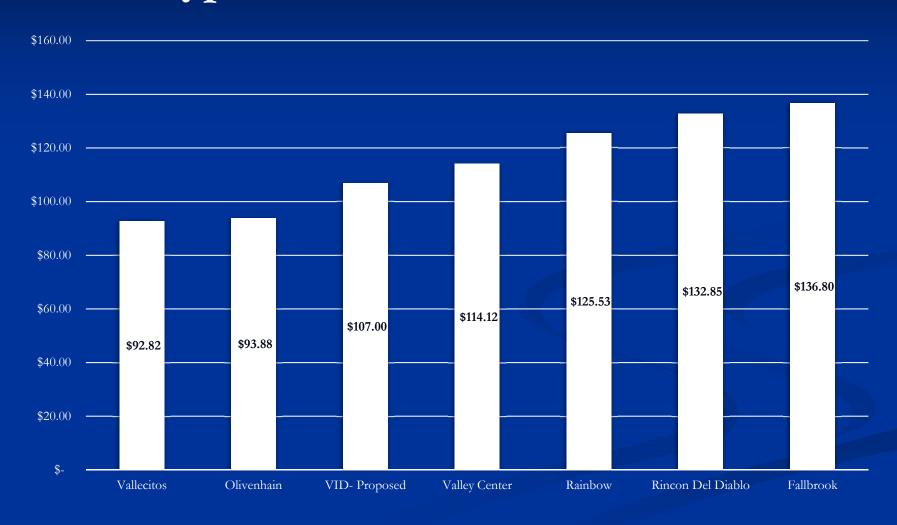
Service Charges			
MeterSize	Curre	ntly Monthly Charge	ed Monthly Charge
5/8	\$	31.75	\$ 32.82
3/4 & 3/4 1		41.88	43.30
1		61.89	63.98
1.5		112.34	116.14
2		172.66	178.50
3		333.57	344.85
4		514.49	531.89
6		1,218.45	1,259.65
8		1,620.90	1,675.71
10		2,425.46	2,507.47

# Proposed New Tiered Allotment with New Water Rates (continued)

Avera	age 2 r	month	Bil	l Exam	ple						2 N	1or	nth Bill
3/4" M	ETER -	-CURRI	EN	T CHAF	RGE								
								VID	Rate pass-		Final		
Tier	Usage	Rate	С	harge	Tier	Usage	Rate	Increase	through	Rebate	Rate	C	harge
1	20	\$4.44	\$	88.80	1	12	\$4.44	\$0.16	\$0.20	-\$0.08	\$4.72	\$	56.64
2	4	\$4.98		19.92	2	12	\$4.98	\$0.09	\$0.20	-\$0.08	\$5.19	_	62.28
	24		\$	108.72	Total	24						\$	118.92
Service	Charge			83.76	Servi	e Charge	е						86.60
IAC				8.48	IAC								8.48
Total B	i-Monthly	y Cost	\$	200.96	Total	Bi-Month	ly Cost				•	\$	214.00
							Bi-Mo	nthly Doll	lar Change			\$	13.04
					Perce	ntage Ch	ange						6.49%

New Rates	
Capital Improvement Reserve 06/30/2021	\$ 20,346,496
Contribution to or (Use of) Reserves through Fiscal Year 2027	(6,803,070)
Projected Capital Improvement Reserve Balance as of 06/30/2027	\$ 13,543,427

# Monthly Cost Comparison – Typical Residential Customer







#### STAFF REPORT

**Board Meeting Date:** January 19, 2022

Prepared By: Lisa Soto Approved By: Brett Hodgkiss

SUBJECT: RESOLUTION HONORING PAST PRESIDENT PATRICK H. SANCHEZ

<u>RECOMMENDATION</u>: Adopt Resolution No. 22-XX honoring the District's 2021 past president, Patrick H. Sanchez.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

<u>SUMMARY</u>: Director Sanchez has served the District as Director of Division 4 since 2017. He recently completed his term as President of the Board of Directors for 2021, during which time the District continued to handle the many unique challenges related to the COVID-19 pandemic, and undertook unprecedented measures to ensure the health and well-being of its workforce and customers.

During Director Sanchez's term as Board President, the District adopted its 2020 Urban Water Management Plan and amended its Water Supply Response Plan. The District entered into professional services agreements for major capital improvement projects, including the Vista Flume Replacement Alignment Study, the Warner Wellfield Assessment and Deodar Reservoir Rehabilitation project and a construction contract for the Edgehill (E) Reservoir Replacement and Pump Station project. The District also completed important infrastructure projects, including the Warner Ranch Ditch Repair Project and the Buena Creek (HB) Reservoir Rehabilitation Project.

Under Director Sanchez's leadership, the District received national and statewide recognition for its commitment to good governance, transparency and sound financial management by receiving the Certificate of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association for the fourteenth straight year for the District's Comprehensive Annual Financial Report for the Fiscal Year 2020. The District also receive the District of Distinction Platinum award and Transparency Certificate of Excellence from the Special District Leadership Foundation.

Director Sanchez has actively represented the District's best interests through his dedicated service on the California Special Districts Association Professional Development Committee and the Association of California Water Agencies Business Development Committee and through serving as chair of the District's Fiscal Policy Committee and his membership on the Water Sustainability Committee.

In recognition of Director Sanchez's accomplishments and outstanding efforts for the benefit of all the people of Vista Irrigation District during his tenure as President, the attached resolution is presented for the Board's consideration.

ATTACHMENT: Draft resolution

#### **RESOLUTION NO. 22-xx**

## RESOLUTION OF THE BOARD OF DIRECTORS OF THE VISTA IRRIGATION DISTRICT HONORING PAST PRESIDENT PATRICK H. SANCHEZ

WHEREAS, Patrick H. Sanchez has served as Director of Division 4 since 2017; and

WHEREAS, he has conscientiously and ably served as President of the Board for Calendar Year 2021; and

WHEREAS, during his term as President, the District adopted its 2020 Urban Water Management Plan and amended its Water Supply Response Plan. The District entered into professional services agreements for major capital improvement projects, including the Vista Flume Replacement Alignment Study, the Warner Wellfield Assessment and Deodar Reservoir Rehabilitation project and a construction contract for the Edgehill (E) Reservoir Replacement and Pump Station project. The District also completed important infrastructure projects, including the Warner Ranch Ditch Repair Project and the Buena Creek (HB) Reservoir Rehabilitation Project; and

WHEREAS, under Directors Sanchez's leadership, the District received national and statewide recognition for its commitment to good governance, transparency and sound financial management, by receiving the Certificate of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association for the fourteenth straight year for the District's Comprehensive Annual Financial Report for the Fiscal Year 2020. The District also received the District of Distinction Platinum award and Transparency Certificate of Excellence from the Special District Leadership Foundation; and

WHEREAS, Director Sanchez has actively represented the District's best interests through his dedicated service on the California Special Districts Association Professional Development Committee and the Association of California Water Agencies Business Development Committee and through serving as chair of the District's Fiscal Policy Committee and his membership on the Water Sustainability Committee.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors and staff of the Vista Irrigation District do hereby express to Patrick H. Sanchez appreciation for his accomplishments and outstanding efforts for the benefit of all the people of the Vista Irrigation District during his tenure as President.

PASSED AND ADOPTED by the following roll call vote of the Board of Directors for the Vista Irrigation District this 19<sup>th</sup> day of January 2022.

AYES: NOES: ABSTAIN: ABSENT:		
ATTEST:	Marty Miller, President	
Lisa R. Soto, Secretary		
Board of Directors		
VISTA IRRIGATION DISTRICT		



#### **STAFF REPORT**

Board Meeting Date: January 19, 2022 Prepared By: Brett Hodgkiss

<u>SUBJECT</u>: MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER

**AUTHORITY** 

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



**STAFF REPORT** 

Agenda Item: 10.A

**Board Meeting Date:** January 19, 2022

Prepared By: Lisa Soto
Approved By: Brett Hodgkiss

**SUBJECT:** REPORTS ON MEETINGS AND EVENTS ATTENDED BY DIRECTORS

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



**STAFF REPORT** 

Agenda Item: 10.B

**Board Meeting Date:** January 19, 2022

Prepared By: Lisa Soto Approved By: Brett Hodgkiss

**SUBJECT:** SCHEDULE OF UPCOMING MEETINGS AND EVENTS

<u>SUMMARY</u>: 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	Vista Chamber of Commerce Business Mixer	
	Feb. 9, 2022; 5:00 p.m6:00 p.m.; Location TBD	
	Registration deadline: None	
2	Urban Water Spring Conference	
	Feb. 16-18, 2022; Palm Springs	
	Registration deadline: 2/16/22	
3	CSDA Quarterly Meeting	
	Feb. 17, 2022, 6:00 p.m.; Location TBD	
	Registration deadline: TBD	
4	Vista Chamber of Commerce Business Mixer	
	Mar. 9, 2022; 5:00 p.m.–6:00 p.m.; Location TBD	
	Registration deadline: None	
5	Council of Water Utilities Meeting	
	Mar. 15, 2022, 8:00 a.m9:30 a.m.; Location TBD	
	Registration deadline: TBD	
6	Vista Chamber of Commerce Business Mixer	
	Apr. 13, 2022; 5:00 p.m.–6:00 p.m.; Location TBD	
	Registration deadline: None	
7	ACWA Spring Conference	MacKenzie
	May 3-6, 2022; Sacramento	
	Registration deadline: TBD	
8	Council of Water Utilities Meeting	
	May 17, 2022, 8:00 a.m9:30 a.m.; Location TBD	
	Registration deadline: TBD	
9	Special Districts Legislative Days	
	May 17-18, 2022; Sacramento	
	Registration deadline: TBD	
10	CSDA Quarterly Meeting	
	May 19, 2022, 6:00 p.m.; Location TBD	
	Registration deadline: TBD	
11	Council of Water Utilities Meeting	
	Jul. 19, 2022, 8:00 a.m9:30 a.m.; Location TBD	
	Registration deadline: TBD	
12	CSDA Quarterly Meeting	
	August 18, 2022, 6:00 p.m.; Location TBD	
<u> </u>	Registration deadline: TBD	
13	CSDA Annual Conference	
	Aug. 22-25, 2022; Palm Springs	
	Registration deadline: TBD	

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
14	Council of Water Utilities Meeting	
	Sep. 20, 2022, 8:00 a.m9:30 a.m.; Location TBD	
	Registration deadline: TBD	
15	CALAFCO Annual Conference	
	Oct. 19-21, 2022; Newport Beach	
	Registration deadline: TBD	
16	Council of Water Utilities Meeting	
	Nov. 15, 2022, 8:00 a.m9:30 a.m.; Location TBD	
	Registration deadline: TBD	
17	CSDA Quarterly Meeting	
	Nov. 17, 2022, 6:00 p.m.; Location TBD	
	Registration deadline: TBD	
18	ACWA Fall Conference	
	Nov. 29-Dec. 2, 2022; Indian Wells	
	Registration deadline: TBD	
19	Colorado River Water Users Association Conference (CRWUA)	
	Dec. 14-16, 2022; Las Vegas	
	Registration deadline: TBD	

<sup>\*</sup> 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;  $\Diamond$ =Virtual (Attendee to self-register)



#### **STAFF REPORT**

**Board Meeting Date:** January 19, 2022

Prepared By: Lisa Soto

SUBJECT: ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

<u>SUMMARY</u>: 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:

- Harmful Algal Blooms treatment options (March)
- H.R. La Bounty Award recipients recognition (February)
- 100<sup>th</sup> Anniversary Celebration (February)



#### STAFF REPORT

**Board Meeting Date:** January 19, 2022

Prepared By: Lisa Soto

**SUBJECT:** COMMENTS BY DIRECTORS

<u>SUMMARY</u>: 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**

Board Meeting Date: January 19, 2022 Prepared By: Brett Hodgkiss

**SUBJECT:** COMMENTS BY GENERAL COUNSEL

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



#### **STAFF REPORT**

Board Meeting Date: January 19, 2022 Prepared By: Brett Hodgkiss

**SUBJECT:** COMMENTS BY GENERAL MANAGER

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



#### **STAFF REPORT**

Board Meeting Date: January 19, 2022 Prepared By: Brett Hodgkiss

SUBJECT: CLOSED SESSION: CONFERENCE WITH LEGAL COUNSEL—EXISTING LITIGATION

<u>SUMMARY</u>: Closed session with legal counsel per Government Code Sections 54956.9(a) and (d)(1) to discuss the following existing litigation:

Name of Case: Kessner et al. v. City of Santa Clara, et al.;

Santa Clara Superior Court Case No. 20CV364054



#### **STAFF REPORT**

Board Meeting Date: January 19, 2022 Prepared By: Brett Hodgkiss

<u>SUBJECT</u>: CLOSED SESSION TO CONDUCT PUBLIC EMPLOYEE PERFORMANCE

EVALUATION – GENERAL MANAGER

<u>SUMMARY</u>: Performance evaluation of public employee pursuant to Government Code section 54957.