AGENDA FOR A REGULAR MEETING OF THE BOARD OF DIRECTORS
OF THE VALLECITOS WATER DISTRICT
WEDNESDAY, SEPTEMBER 7, 2022, AT 5:00 P.M.
AT THE DISTRICT OFFICE
201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

CALL TO ORDER – PRESIDENT ELITHARP

NOTICE TO THE PUBLIC

Meetings of the Board of Directors of the Vallecitos Water District will be held in the Board Room at the District Office located at 201 Vallecitos de Oro, San Marcos, California, on the date and time identified above.

Vallecitos Water District is following the guidance issued by the County of San Diego, effective March 1, 2022, which follows the California Department of Public Health guidance which recommends that persons attending public meetings are strongly recommended to wear a face covering in indoor public settings, whether vaccinated or not. The Department of Industrial Relations also strongly recommends, but does not require, the use of face coverings by all visitors.

BROADCAST OF THE MEETING. Members of the public may watch the meeting live via computer or smart device by going to the District's website: www.vwd.org/meetings and clicking on the "Watch Live" icon; however, they will not be able to participate in the meeting remotely.

LISTEN TO THE MEETING. Members of the public may listen to the meeting live on their phone by dialing (888) 788-0099 (Toll Free) or (877) 853-5247 (Toll Free). When prompted, enter the meeting ID and Passcode displayed on the District's website.

PLEDGE OF ALLEGIANCE

ROLL CALL

ADDITIONS TO THE AGENDA

Items may be added to the Agenda in accordance with Section 54954.2(b)(2) of the Government Code upon a determination by a majority vote of the Vallecitos Board that an emergency situation exists, as defined in Section 54956.5, or upon a determination by a two-thirds vote of the Board present at the meeting, or, if less than two-thirds of the Board are present, a unanimous vote of Board members present, that there is a need to take immediate action and that the need for action came to the attention of the Vallecitos Water District subsequent to the agenda being posted.

ADOPT AGENDA FOR THE REGULAR MEETING OF SEPTEMBER 7, 2022

PUBLIC COMMENT

Persons wishing to address a matter not on the Agenda may be heard at this time; however, no action will be taken until the matter is placed on a future agenda in accordance with Board policy. Public comments are limited to three minutes. A Request to Speak form is required to be submitted to the Senior Executive Assistant prior to the start of the meeting, if possible. Public comment should start by stating name, address, and topic. The Board is not permitted during this time to enter into a dialogue with the speaker.

PRESENTATIONS

The Vallecitos Water District's Board of Directors will present five scholarships in the amount of $1,200 each to five student winners of the District's Scholarship Contest.

CONSENT CALENDAR

All matters listed under the Consent Calendar are expected to be routine and non-controversial, to be acted upon by the Board by one motion. There will be no separate discussion of these items, unless a Board member or member of the public requests that a particular item(s) be removed from the Consent Calendar, in which case it will be considered separately under Action Items.

1.1 APPROVAL OF MINUTES (pp. 8-20)

A. PUBLIC AWARENESS/PERSONNEL/POLICY COMMITTEE MEETING – AUGUST 1, 2022
B. CLOSED SESSION BOARD MEETING – AUGUST 3, 2022
C. REGULAR BOARD MEETING – AUGUST 3, 2022
D. ENGINEERING/EQUIPMENT COMMITTEE MEETING – AUGUST 4, 2022

Approved minutes become a permanent public record of the District.

Recommendation: Approve Minutes

1.2 WARRANT LIST THROUGH SEPTEMBER 7, 2022 - $6,852,847.58 (pp. 21-26)

Recommendation: Approve Warrant List

1.3 FINANCIAL REPORTS (pp. 27-47)

A. WATER METER COUNT – JULY 31, 2022
B. WATER PRODUCTION/SALES REPORT – 2022/2023
C. PER CAPITA WATER CONSUMPTION – JULY 31, 2022
D. WATER REVENUE AND EXPENSE REPORT – JULY 31, 2022
E. SEWER REVENUE AND EXPENSE REPORT – JULY 31, 2022

F. RESERVE FUNDS ACTIVITY – JULY 31, 2022
G. INVESTMENT REPORT – JULY 31, 2022
H. LEGAL FEES SUMMARY – JULY 31, 2022

1.4 FINAL ACCEPTANCE OF WATER AND SEWER IMPROVEMENTS FOR VILLA SERENA PHASE 1 IMPROVEMENTS (VS PHASE 1 LP) (pp.48-49)

The project is a re-development of an existing multi-family residential site located on Richland Road, between Marcos Street and Liberty Drive.

Recommendation: **Accept the project water and sewer improvements for Villa Serena Phase 1**

1.5 APPROVAL OF ADDITIONAL AS-NEEDED INFORMATION TECHNOLOGY PROFESSIONAL SERVICES AGREEMENT WITH OSTARI (pp. 50)

IT requires additional support from Ostari due to increased workloads associated with managing Operational Technology/SCADA systems.

Recommendation: **Authorize the General Manager to enter into a 2-year as-needed IT professional services agreement with Ostari with the option to extend the agreement for two additional 1-year terms**

1.6 APPROVAL OF AS-NEEDED CONSULTANT PROFESSIONAL SERVICES AGREEMENT WITH QUARTIC (pp. 51)

The District intends to utilize Quartic on upcoming requests for professional services as part of its Asset Management Capital Improvement Program as well as general Geographic Information System support.

Recommendation: **Authorize the General Manager to enter into a 1-year as-needed consultant professional services agreement with Quartic with the option to extend the agreement for two additional 1-year terms**

1.7 AWARD OF CONSTRUCTION CONTRACT FOR THE FISCAL YEAR 2022/2023 VAULT NET FALL PROTECTION INSTALLATION PROJECT (pp.52-55)

The District owns and operates equipment in several underground vaults which have access hatches and climbing systems that need to be upgraded to improve staff safety.

Recommendation: **Authorize the General Manager to execute a construction contract with Versatile Systems, Inc.**

1.8 JOB CLASSIFICATION RETITLE AND PAY ADJUSTMENT FOR FINANCE SUPERVISOR (pp. 56-59)

Job classification retitles and revisions to the District's Salary Schedule require Board approval.

Recommendation: Adopt resolution adopting District Pay Schedule

1.9 AWARD OF CONSTRUCTION CONTRACT FOR THE MEADOWLARK WATER RECLAMATION FACILITY BATTERY ENERGY STORAGE SYSTEM RETAINING WALL PROJECT (pp.60-62)

This improvement is required before the Battery Energy Storage System can be procured and installed.

Recommendation: Authorize the General Manager to execute a construction contract with Koch General Engineering

1.10 ADOPTION OF RESOLUTION ORDERING THE ANNEXATION OF CERTAIN PROPERTY DESIGNATED AS THE "MONTIEL ROAD PARTNERS / RAMIREZ SEWER ANNEXATION" INTO THE SEWER IMPROVEMENT DISTRICTS 5 & 6 (MONTIEL PARTNERS, LP) (pp. 63-69)

The project consists of approximately 4.4 acres located on Montiel Road between Nordahl Road and St. Paul Drive.

Recommendation: Adopt resolution ordering the annexation

1.11 AUTHORIZATION TO EXECUTE AN AGREEMENT FOR DOOR ACCESS CONTROL SYSTEM EXPANSION FOR MEADOWLARK WATER RECLAMATION FACILITY AND MAHR RESERVOIR (pp. 70)

The District is improving facility safety and security by implementing access control technology on all campuses.

Recommendation: Authorize the General Manager to execute an agreement with Accurate Security Pros

1.12 APPROVAL OF TEMPORARY OFF-SITE WATER AND SEWER SERVICE AGREEMENTS FOR MERRIAM RESIDENCE (ROBERT MERRIAM) (pp. 71-72)

The property owner has requested approval of Temporary Off-Site Water and Sewer Service Agreements to provide water and sewer service for a single-family residence located at 1080 Rock Springs Road.

Recommendation: Approve temporary off-site water and sewer service agreements with conditions

1.13 FALL 2022 BETWEEN THE PIPES – VALLECITOS WATER DISTRICT QUARTERLY NEWSLETTER (pp. 73-76)

Recommendation: **Approve Fall 2022 Between the Pipes Newsletter**

*******END OF CONSENT CALENDAR*******

PUBLIC HEARING

2.1 PUBLIC HEARING REGARDING A REPORT ON DISTRICT WATER QUALITY RELATIVE TO PUBLIC HEALTH GOALS (pp. 77-116)

The law requires that a public hearing be held for the purpose of accepting and responding to public comment on the report

Recommendation: **Accept the Public Health Goals Report**

ACTION ITEM(S)

3.1 AWARD OF AMENDMENT NO. 3 FOR THE MONTIEL LIFT STATION AND FORCEMAIN REPLACEMENT PROJECT (pp. 117-119)

The lift station has exceeded its useful life expectancy and requires replacement.

Recommendation: **Authorize the General Manager to execute Amendment No. 3 under the current professional services agreement with Michael Baker International, Inc. for additional engineering design services**

3.2 ADOPTION OF RESOLUTION APPROVING AN ADDENDUM TO THE 2018 PROGRAM ENVIRONMENTAL IMPACT REPORT FOR THE MONTIEL LIFT STATION AND FORCEMAIN REPLACEMENT PROJECT (pp. 120-126)

The addendum updates the existing Environmental Impact Report to match the scope of the project.

Recommendation: **Adopt resolution approving an addendum to the Environmental Impact Report**

3.3 AWARD OF PROFESSIONAL SERVICES AGREEMENT FOR THE ASSET MANAGEMENT PLAN PROJECT (pp.127-129)

The goal of the Asset Management Plan is to provide a roadmap for implementation of the District's comprehensive Asset Management Program.

Recommendation: **Authorize the General Manager to execute a professional services agreement with Black & Veatch for the Asset Management Plan project**

3.4 AWARD OF CONSTRUCTION CONTRACT FOR THE 16-INCH EMERGENCY BYPASS PIPELINE REHABILITATION PROJECT (pp.130-133)

The Emergency Bypass pipeline is typically used during Meadowlark Reclamation Facility operational shutdowns or emergency events.

Recommendation: **Authorize the General Manager to 1) execute a construction contract with Burtech Pipeline, and 2) execute a professional services agreement with Valley Construction Management**

3.5 FISCAL YEAR 2022 TACTICAL PLAN INITIATIVES FINAL REPORT (pp. 134-142)

This plan contains 37 initiatives and covers the time period from March 2, 2022, through June 30, 2022.

Recommendation: **For information only**

*******END OF ACTION ITEMS*******

REPORTS

4.1 GENERAL MANAGER

4.2 DISTRICT LEGAL COUNSEL

4.3 SAN DIEGO COUNTY WATER AUTHORITY

4.4 ENCINA WASTEWATER AUTHORITY

- *Board of Directors Meeting*
- *Capital Improvement Committee*
- *Policy and Finance Committee*

4.5 STANDING COMMITTEES

4.6 DIRECTORS REPORTS ON MEETINGS/CONFERENCES/SEMINARS ATTENDED

*******END OF REPORTS*******

OTHER BUSINESS

5.1 MEETINGS

*******END OF OTHER BUSINESS*******

6.1 DIRECTORS COMMENTS/FUTURE AGENDA ITEMS

*******END OF DIRECTORS COMMENTS/FUTURE AGENDA ITEMS*******

7.1 ADJOURNMENT

*******END OF AGENDA*******

If you have any disability which would require accommodation in order to enable you to participate in this meeting, please call the Senior Executive Assistant at 760.744.0460 ext. 264 at least 48 hours prior to the meeting.

Audio and video recordings of all Board meetings are available to the public at the District website www.vwd.org

AFFIDAVIT OF POSTING

I, Anthony Flores, Senior Executive Assistant of the Vallecitos Water District, hereby certify that I caused the posting of this Agenda in the outside display case at the District office, 201 Vallecitos de Oro, San Marcos, California by 5:00 p.m., Thursday, September 1, 2022.

Anthony Flores

MINUTES OF A MEETING OF THE
PUBLIC AWARENESS/PERSONNEL/POLICY COMMITTEE
OF THE VALLECITOS WATER DISTRICT
MONDAY, AUGUST 1, 2022, AT 10:00 A.M.
AT THE DISTRICT OFFICE IN THE BOARD ROOM
201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

Director Boyd-Hodgson called the meeting to order at the hour of 10:00 a.m.

Present: Director Boyd-Hodgson
Director Pennock
General Manager Pruim
Assistant General Manager Gumpel
Public Information/Conservation Supervisor Robbins
Information Technology Analyst Todd
Senior Executive Assistant Flores
Executive Assistant Johnson

PUBLIC COMMENT

None.

ITEMS FOR DISCUSSION

PERSONNEL

None.

PUBLIC AWARENESS

None.

POLICY

(OLD BUSINESS) ORDINANCE NO. 216, ESTABLISHING THE GENERAL PROVISIONS FOR CONDUCTING THE BUSINESS OF THE BOARD

Public Information/Conservation Supervisor Robbins provided the Committee with staff's proposed revisions to Ordinance No. 216 based on discussions at previous Committee meetings.

General discussion took place in regard to codifying existing Board practices, clarifying the Board President's authority to recommend Committee and outside agency appointments with final approval from the full Board of Directors, and language to include expense reimbursements with per diem reimbursements.

Director Boyd-Hodgson requested the U.S. Water Alliance be added to the list of memberships to be considered by the full Board. The Committee also recommended that the San Marcos Chamber of Commerce "Meet Your Elected Officials Business Mixer" be added to the approved per diem reimbursement list.

The Committee recommended the proposed revisions be provided to the full Board of Directors for consideration.

NEXT MEETING DATE – SEPTEMBER 14, 2022

The next Committee meeting is scheduled for 10:00 a.m. on Wednesday, September 14, 2022, in the Board Room.

ADJOURNMENT

There being no further business to discuss, the meeting adjourned at the hour of 10:37 a.m.

MINUTES OF A CLOSED SESSION MEETING
OF THE BOARD OF DIRECTORS
OF THE VALLECITOS WATER DISTRICT
WEDNESDAY, AUGUST 3, 2022, AT 4:00 PM, AT THE DISTRICT OFFICE
201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

President Elitharp called the Closed Session meeting to order at the hour of 4:03 p.m.

Present:	Director Elitharp Director Hernandez Director Pennock Director Sannella (Arrived at 4:15 p.m.)
Absent:	Director Boyd-Hodgson
Staff Present:	General Manager Pruim Assistant General Manager Gumpel Legal Counsel Gilpin
Others Present:	Lutfi Kharuf, Best Best & Krieger

ADDITIONS TO THE AGENDA

None.

ADOPT AGENDA FOR THE CLOSED SESSION MEETING OF AUGUST 3, 2022

22-08-01 MOTION WAS MADE by Director Pennock, seconded by Director Hernandez, and carried unanimously, with Directors Boyd-Hodgson and Sannella absent, to adopt the agenda for the Closed Session Meeting of August 3, 2022.

PUBLIC COMMENT

None.

CLOSED SESSION

CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION – Significant Exposure to Litigation
Per Government Code Section 54956.9(c) – One Potential Case

22-08-02 MOTION WAS MADE by Director Hernandez, seconded by Director Pennock, and carried unanimously, with Directors Boyd-Hodgson and Sannella absent, to move into Closed Session pursuant to Government Code Section 54956.9(c).

Director Sannella joined the meeting at 4:15 p.m.

REPORT AFTER CLOSED SESSION

The Board adjourned to Open Session at 4:23 p.m. There was no reportable action from the Closed Session Meeting.

ADJOURNMENT

There being no further business to discuss, President Elitharp adjourned the Closed Session Meeting of the Board of Directors at the hour of 4:24 p.m.

A Regular Meeting of the Vallecitos Water District Board of Directors has been scheduled for Wednesday, August 3, 2022, at 5:00 p.m. at the District office, 201 Vallecitos de Oro, San Marcos, California.

Craig Elitharp, President
Board of Directors
Vallecitos Water District

ATTEST:

Glenn Pruim, Secretary
Board of Directors
Vallecitos Water District

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS
OF THE VALLECITOS WATER DISTRICT
WEDNESDAY, AUGUST 3, 2022, AT 5:00 PM, AT THE DISTRICT OFFICE
201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

President Elitharp called the Regular meeting to order at the hour of 5:00 p.m.

Present: Director Boyd-Hodgson
Director Elitharp
Director Hernandez
Director Pennock
Director Sannella

Staff Present: General Manager Pruim
Assistant General Manager Gumpel
Legal Counsel Gilpin
Administrative Services Manager Emmanuel
Chief Financial Officer Owen
Operations & Maintenance Manager Pedrazzi
Capital Facilities Senior Engineer Morgan
Development Services Senior Engineer Lopez
Capital Facilities Assistant Engineer Pereira
Principal Financial Analyst Arthur
Information Technology Analyst Todd
Engineering Technician I Fretwell
Engineering Technician II Lopez
Engineering Technician III Stichter
Senior Executive Assistant Flores
Executive Assistant Johnson

Others Present: John Wright, Raftelis
Lutfi Kharuf, Best & Krieger

Assistant General Manager Gumpel led the pledge of allegiance.

ADDITIONS TO THE AGENDA

None.

ADOPT AGENDA FOR THE REGULAR MEETING OF AUGUST 3, 2022

22-08-03 MOTION WAS MADE by Director Sannella, seconded by Director Boyd-Hodgson, and carried unanimously, to adopt the agenda for the Regular Board Meeting of August 3, 2022.

PUBLIC COMMENT

Elizabeth Laisle, member of the public, informed the Board of a billing issue between the District and her daughter.

Fran Grizas, member of the public, commented that there are two Directors up for election and stated that there are promises that have been left unfulfilled that were made during election campaigns. Ms. Grizas further stated her concern for the volume of homes being constructed and the water supply to new residents.

PRESENTATION

Anne Lopez, Engineering Technician II, was presented with her Certificate for Water Distribution Operator Grade 2 from the State Water Resources Control Board.

CONSENT CALENDAR

22-08-04 MOTION WAS MADE by Director Hernandez, seconded by Director Pennock, and carried unanimously, to approve the Consent Calendar as presented.

1.1 Approval of Minutes

A. Regular Board Meeting – July 20, 2022
B. Engineering/Equipment Committee Meeting – July 26, 2022

1.2 Warrant List Through August 3, 2022 - $5,645,001.68

1.3 Authorization to Execute a Purchase Agreement for Microsoft Enterprise Licensing

1.4 Approval of Escrow Account for Water Capital Facility Fees for Palisades Estates Phase 1 and Phase 2 (Program Resources, Inc.)

1.5 Approval of Construction Agreement for Murai Phase 2 Water and Sewer Improvements and Approval of Amended Construction Agreement for Murai Phase 1 Water and Sewer Improvements (Lennar Homes of California, LLC.)

1.6 Award of Amendment to As-Needed Task Order for Environmental, Health, and Safety Technical Assistance

ACTION ITEM(S)

DISTRICT TELECOMMUTING POLICY

General Manager Pruim provided details of the proposed telecommuting policy as outlined in the staff report included in the agenda packet. General Manager Pruim stated that the telecommuting policy would initially be a 6-month pilot program and could be modified based on the data and metrics received over the evaluation period.

General discussion took place during which Directors Boyd-Hodgson, Elitharp and Sannella expressed concerns with cybersecurity, home workspace conditions and costs. Directors Elitharp and Sannella voiced their support of a telecommuting policy; however, they felt that the policy was not ready for implementation until additional details were vetted out. Director Boyd-Hodgson suggested the policy be modified to allow District Supervisors to telecommute after a 3-month evaluation of the pilot program.

22-08-05 MOTION WAS MADE by Director Hernandez, seconded by Director Pennock, and carried 3-2, with Directors Elitharp and Sannella voting no, to adopt the resolution approving the telecommuting policy with a modification that District Supervisors will be eligible to participate in the telecommuting pilot program after a 3-month evaluation period.

Resolution No. 1621 – The roll call vote was as follows:

AYES: Boyd-Hodgson, Hernandez, Pennock
NOES: Elitharp, Sannella
ABSTAIN:
ABSENT:

CAPITAL IMPROVEMENT PROGRAM ANNUAL REPORT

Capital Facilities Senior Engineer Morgan presented the Capital Improvement Program (CIP) 2021/2022 Annual Report as follows:

- 2021/2022 Capital Project Spending Summary
- Projected vs. Actual CIP Construction Spending
- Change Order Total vs. Industry Standard
- Actual 2021/2022 Completed Projects Change Order Impact
- CIP Design Engineering New Contracts
- Active CIP Design Projects
- CIP Historic Design Spending

- Projects in Construction Fiscal Year 2021/2022
- CIP Historical Annual Budget vs. Actual Spending
- Montiel Lift Station Final Design Easement Acquisition
- MRF Odor Scrubber #1 and Headworks Augers Replacement
- MRF Aeration Basin Improvements
- Sage Canyon Tank Refurbishment
- Tesla Battery Energy Storage Systems (BESS)

General discussion took place.

This item was presented for information only.

2022 WATER RATE PULIC HEARING NOTICE

John Wright, Senior Manager with Raftelis (District Consultant), and Principal Financial Analyst Arthur provided the Board with an overview of the Cost-of-Service Study (COSS) process for water rates (not wastewater) and Proposition (Prop) 218 Public Hearing Notice as follows:

- Cost-of-Service Process
- What is Cost-of-Service?
- California Proposition 218: A Cost-of-Service Mandate
- Cost-of-Service: Allocation to Cost Components
- Study Objectives
- Current Commodity Rates
- Current Ready-to-Serve (RTS) Charges
- Calendar
- Items to Note
- Fixed RTS Charges
- Commodity Rates
- Single Family Residence Usage
- Sample Bills
- Drought Rates
- Drought Rate Impacts
- Rate Survey
- 5-Year Survey Comparison
- Next Steps

General question and answer took place during and after the presentation.

Principal Financial Analyst Arthur informed the Board of the Prop 218 Public Hearing Notice timelines and that the District will need to mail out paper notices to its customers no later than August 11, 2022, to remain in compliance with the statute. Director Boyd-Hodgson asked why the District is conducting the public hearing at a Special Meeting on September 28, 2022, and not a regularly scheduled Board meeting. General Manager Pruim stated the District would need to coordinate printing and mailing efforts with the selected vendor to mail out the public notice. General Manager Pruim further stated that the 45-day timeline requirement would push the date of the meeting past the District's second scheduled meeting in September, should the agenda item be approved.

General discussion took place.

Staff recommended the Board approve the Prop 218 Notice mailing and set the public hearing for September 28, 2022.

General Manger Pruim clarified that the Board was not being asked to adopt a rate increase at this meeting and was only being asked to consider approving the public rate hearing notice and the public hearing scheduled for September 28, 2022. Proposed rate increases are for water only. No increase for wastewater rates is proposed. General Manager Pruim stated the Board will have the flexibility to adopt future possible rate increases.

Further general discussion took place.

22-08-06 MOTION WAS MADE by Director Hernandez, seconded by Director Pennock, and carried unanimously, to approve the Prop 218 public rate hearing notice mailing and set the public hearing for September 28, 2022.

REPORTS

GENERAL MANAGER

General Manager Pruim reported the following:

- The Chlorine Contact Tank project initially received a federal $800,000 grant and just received approval for another $1 Million state grant for the project.
- The District delivered a big rain barrel at the school district, and it should be installed prior to school starting.

DISTRICT LEGAL COUNSEL

Legal Counsel Gilpin informed the Board the State Legislature will be closing session in late August and that there are two bills that may be of interest to the District. Assembly Bill 2499 is a teleconferencing bill that would update posting requirements. Legal Counsel Gilpin informed the Board that the Association of California Water Agencies (ACWA) is leading a coalition to oppose Senate Bill 222 Water Rate Assistance Program. ACWA is not opposed to the bill itself, but how the bill is currently written.

SAN DIEGO COUNTY WATER AUTHORITY

Director Elitharp stated the San Diego County Water Authority (SDCWA) had its Regular Board meeting on July 28, 2022, and provided a summary of actions taken by the Board.

ENCINA WASTEWATER AUTHORITY

Director Hernandez stated the Capital Improvement Committee will meet next week.

Director Sannella stated the Policy and Finance Committee met on August 9, 2022. The Committee received an overview of the Tactical Plan and reviewed the agency's policy on their Conflict-of-Interest Code.

STANDING COMMITTEES

Director Hernandez stated that the Engineering and Equipment Committee met and received a preview of the CIP annual report.

Director Boyd-Hodgson stated the Public Awareness/Personnel/Policy Committee met on August 1. The Committee reviewed Ordinance No. 216.

DIRECTORS REPORTS ON TRAVEL/CONFERENCES/SEMINARS ATTENDED

Directors Sannella and Elitharp reported on their attendance to the San Marcos Chamber of Commerce "Meet Your Elected Officials" Business Mixer.

Director Boyd-Hodgson reported on her attendance to the ACWA Region 10 event on August 2, 2022.

OTHER BUSINESS

MEETINGS

The Association of California Water Agencies Fall Conference is scheduled for November 29 – December 1, 2022. General Manager Pruim asked the Board to inform the Senior Executive Assistant or Executive Assistant if they intend to attend the conference.

DIRECTORS COMMENTS/FUTURE AGENDA ITEMS

None.

ADJOURNMENT

There being no further business to discuss, President Elitharp adjourned the Regular Meeting of the Board of Directors at the hour of 7:34 p.m.

A Regular Meeting of the Vallecitos Board of Directors has been scheduled for Wednesday, August 17, 2022, at 5:00 p.m. at the District office, 201 Vallecitos de Oro, San Marcos, California.

Craig Elitharp, President
Board of Directors
Vallecitos Water District

ATTEST:

Glenn Pruim, Secretary
Board of Directors
Vallecitos Water District

MINUTES OF A MEETING OF THE
ENGINEERING/EQUIPMENT COMMITTEE
OF THE VALLECITOS WATER DISTRICT
THURSDAY, AUGUST 4, 2022, AT 3:00 P.M.
AT THE DISTRICT OFFICE IN THE BOARD ROOM
201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

Director Hernandez called the meeting to order at the hour of 3:00 p.m.

Present: Director Elitharp
Director Hernandez
Assistant General Manager Gumpel
Development Services Senior Engineer Lopez
Asset Management Supervisor Bennett
Information Technology Analyst Todd
Senior Executive Assistant Flores

PUBLIC COMMENT

None.

ITEM(S) FOR DISCUSSION

PROFESSIONAL SERVICES AGREEMENT AWARD FOR THE ASSET MANAGEMENT PLAN PROJECT

Asset Management Supervisor Bennett provided the Committee with an overview of the District's Asset Management Plan (AMP). Asset Management Supervisor Bennett updated the Committee on the AMP Request for Proposals (RFP) process and dates. Five proposals were received and evaluated by staff. The top 3 firms were invited back for interviews. Black & Veatch was chosen for the AMP Project based on their proposal and interview.

Asset Management Supervisor Bennett also informed the Committee that staff anticipates the AMP to exceed the Fiscal Year (FY) 22/23 budget by approximately $150,000 due to increased scope from when the budget was originally set. The original AMP project scope had components to be completed by District staff; however, this was shifted to a consultant to now complete. Staff is proposing to reallocate $150,000 from FY 23/24 to FY 22/23 to cover project expenses for the current fiscal year. Asset Management Supervisor Bennett clarified that the proposed action will not be a budget increase, but a reallocation of funds.

District staff requested Committee support to take a professional services agreement to complete the AMP Project to the full Board of Directors for approval at a future Board Meeting to be determined.

Director Hernandez asked if it was possible to push out the schedule from 6 months to 10 months to help alleviate project time and costs. Assistant General Manager Gumpel informed the Committee that the project is close to the current fiscal year and that the reallocation of funds would have no impact on the current and future budget.

Director Elitharp inquired if Black & Veatch was the top consultant selected and if there was a sufficient amount of competition for the RFP. Assistant General Manager Gumpel informed the Committee that 5 proposals were received by the District and that Black & Veatch was among the top two proposals. Assistant General Manager Gumpel stated that the top 2 proposals had similar fees; however, Black & Veatch was chosen due to their experience and a polished overall proposal and interview.

Directors Elitharp and Hernandez supported taking the proposed professional services agreement to the full Board for approval and reallocation of funds to FY 22/23 to cover the AMP consultant contract.

DEVELOPMENT PROJECT STATUS BI-ANNUAL UPDATE

Development Services Senior Engineer Lopez provided the Committee with an overview of the Development Project Status and highlighted a number of higher volume projects. Development Services Senior Engineer Lopez also provided the Committee with an overview of the City of San Marcos' Creek District Project that includes bridge projects on Bent Avenue and Via Vera Cruz.

OTHER BUSINESS

None.

ADJOURNMENT

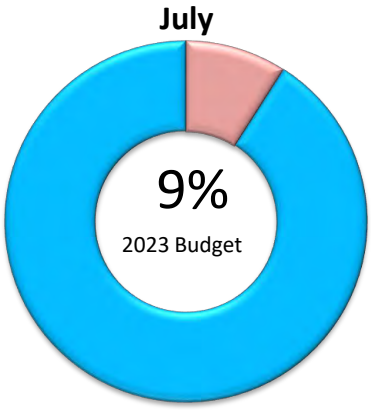
There being no further business to discuss, the meeting was adjourned at the hour of 3:44 p.m.

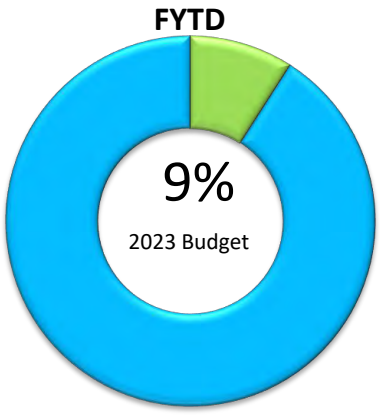
VALLECITOS WATER DISTRICT
DISBURSEMENTS SUMMARY
July 31, 2022

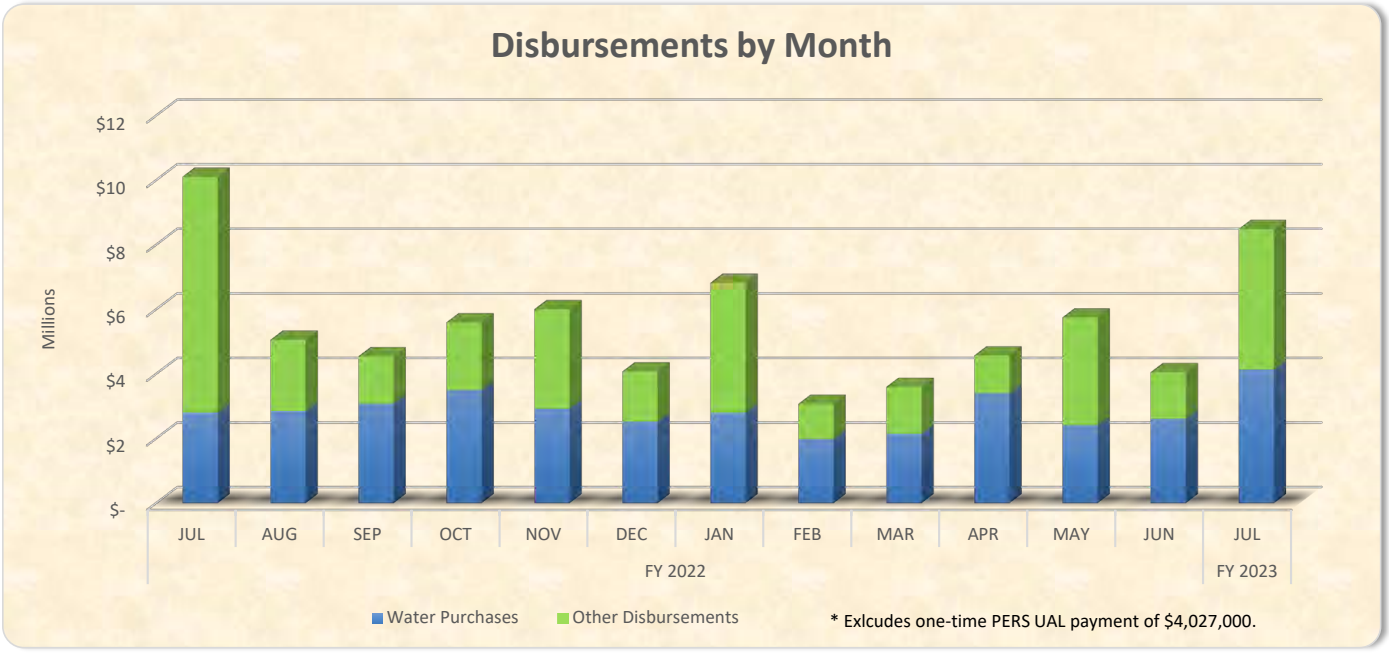
Summary

July Disbursements	$	8,487,933	*
YTD Disbursements	$	8,487,933	*
FY2023 Budget	$	93,704,000	

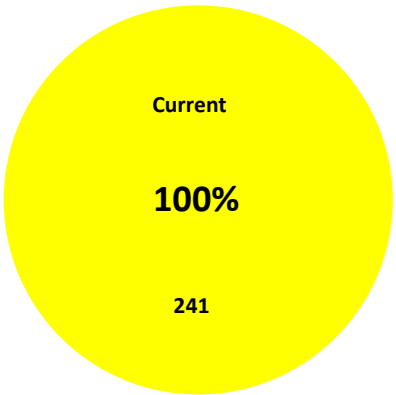
* Excludes Debt Service



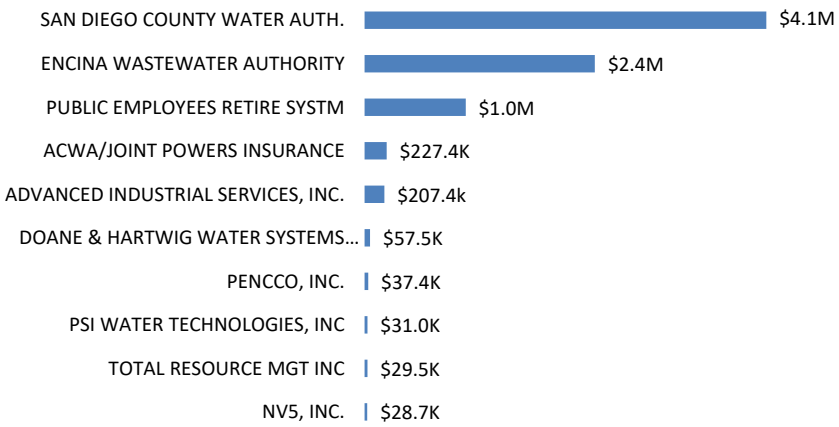




Invoices Processed



Top 10 Vendors - FYTD



VALLECITOS WATER DISTRICT
WARRANTS LIST
September 7, 2022

PAYEE	DESCRIPTION	CHECK#	AMOUNT
Advanced Imaging Solutions, Inc.	Copier Lease - July	124662	2,993.28
Ashton Nichols	Closed Account Refund	124663	9.05
State Board of Equalization	Annual Diesel Fuel Tax Return 2021	124664	27.00
Efficiency Solar Panel Cleaning	Solar Panel Cleaning	124665	934.70
Infosend Inc	Postage, Printing, Processing, Door Hangers, & Support Fees - May & June	124666	8,165.79
Morgan Fain	Reimbursement - CWEA Cert & Membership Dues	124667	283.00
Occu Med Ltd	Medical Svcs - June	124668	84.00
PSI Water Technologies, Inc	Mahr Regeneration System Cell Replacements - 3	124669	29,899.50
SDG&E	Power - June	124670	5,538.72
A Waters Co.	Sewer Testing - For Lab Accreditation	124671	655.35
ACWA/Joint Powers Insurance	Medical Insurance - Sept	124672	243,982.81
Aerotek, Inc.	Temp Agency Part-Time Help For Meter Dept - PPE 7-16-22	124673	1,809.55
Airwave Mechanical	HVAC Svc - Warm Temperatures - Bldg A	124674	400.00
American Water College, LLC	Training Hub Setup - O&M Staff Online Training & Student User Licenses - 50	124675	9,749.00
Aqua-Metric Sales Co	3" Meter, 3/4" Meters - 88, 1 1/2" Meters - 10	124676	27,893.44
AT&T	Phone Svc - June & July	124677	46.30
Automated Water Treatment	60 lb. Calcium Hypochlorite Tablet Buckets - 24	124678	4,835.50
Backflow Solutions, Inc.	Backflow Testing - Qty 380 June	124679	5,681.00
Best Best & Krieger	Legal Svcs - June	124680	12,647.90
California Special District Assn.	Membership Renewal - 22-23	124681	150.00
California Water Efficiency Partnership	Membership 2022 Prj 20221-53	124682	1,985.72
Chandler Asset Management, Inc.	Investment Management Svcs - June & July	124683	7,675.20
Commercial & Industrial Roofing., Inc.	Schoolhouse Pump Station Roof Repair Prj 20221-33	124684	1,446.40
Core & Main LP	Hardware Supplies	124685	326.77
Core Logic Information Solutions Inc	Real Quest Engineering Map Svcs - June & July	124686	450.20
Corodata Media Storage Inc	Backup Storage Tapes - June	124687	188.58
County of San Diego	Recording Fees - July	124688	65.00
County of San Diego	Local Agency Formation Commission Fees 22-23	124689	43,804.98
Cues	GNet Software Support Plan Renewal 22-23 - CCTV Camera Van	124690	2,850.00
CWEA	Cert Renewal - J Woodard	124691	101.00
EDCO Waste & Recycling Serv	Trash Svc - July	124692	957.72
Electrical Sales Inc	Stairwell Lighting Lamp & Ballast Replacements - Bldg A	124693	1,388.90
Elizabeth Laister	Closed Account Refund	124694	887.59
Encina Wastewater Authority	Sewer Testing	124695	25,926.45
Extreme Safety Inc.	Flow Test Regulators - Hazmat Trailer	124696	188.57
Ferguson Enterprises, Inc	Couplings 2, PVC Pipes 20, Cla-Val Rebuild Parts - MRF	124697	3,900.89
Fisher Scientific LLC	UV Light Meter & Data Logger - Water Ops, Lab Supplies - MRF	124698	2,284.11
Fleet Pride	Fluid - Fuel Island, Fleet Supplies	124699	594.37
Golden State Graphics	High Water Use Notification Postcards - Meter Dept	124700	214.42
Grainger Inc	Workbench, Light Bulb Recycling Kits 12, Utility Container, Dolly	124701	6,539.54
James R Hernandez	COWU Meeting 7-19-22	124702	33.23
Inductive Automation LLC	SCADA Priority Care Support 22-23	124703	18,404.40
Infosend Inc	Postage, Printing, Processing & Door Hangers - July	124704	4,497.55
Inland Kenworth US Inc	Parts - Vactor Window Repair Veh 240	124705	204.75
J W D'Angelo Co Inc	Gate Valves - 5	124706	4,858.87
Jack Henry & Assoc Inc	Remit Plus Support - July	124707	122.36
Jan-Pro of San Diego	Janitorial Svcs MRF - June & July	124708	1,994.00
Jesse Halbig	Self Improvement Program	124709	165.00
Joe's Paving Co Inc	Paving Svcs - West San Marcos Blvd - 292 Sq. Ft.	124710	5,717.36
JCI Jones Chemicals Inc	Chlorine	124711	16,106.03
Jostle Corporation	Jostle Subscription Renewal 22-23	124712	9,475.20
JWC Environmental Inc.	LS1 Grinder 1 Rebuild - MRF	124713	24,932.28
Ken Grody Ford	Water Pump & AC Repair Supplies Veh 254	124714	3,831.11
Kleinfelder, Inc.	Chlorine Tank Expansion Prj 20161-2	124715	9,831.53
KRC Rock Inc	Mulch - Bldg A	124716	1,491.16
Land Surveying Consultants Inc	Rock Springs Valve Replacement Prj 20161-7	124717	4,108.00
Lloyd Pest Control	Pest Control Svcs - July	124718	489.00
Mallory Safety & Supply, LLC	Confined Space Entry Lifting Device & Ropes, Safety Supplies	124719	2,555.73
Marselino Sanchez	Self Improvement Program	124720	384.80
Matheson Tri-Gas Inc	Cylinder Rental	124721	230.91
Michael Baker International, Inc.	Montiel Lift Station Prj 20201-2	124722	6,252.50

VALLECITOS WATER DISTRICT
WARRANTS LIST
September 7, 2022

PAYEE	DESCRIPTION	CHECK#	AMOUNT
Michael Rathsam	Reimbursement - CPA License	124723	500.00
Murray Smith, Inc.	Sodium Hypochlorite Conversion MRF Prj 20171-2	124724	20,737.88
NV5, Inc.	Health & Safety Svcs as Needed - Feb, Apr, May, & June	124725	37,645.06
Ostari Inc	IT Support, Duo Software Subscription, DHS Security Hardening Initiative - July	124726	3,672.25
Pacific Pipeline Supply	Pump Control Valve Repair Parts - PVPS, 12" Couplings 2	124727	5,389.47
Patriot Portable Restroom Inc	Portable Restroom Rental - July	124728	308.05
Pencco, Inc.	Calcium Nitrate	124729	45,120.80
Pitney Bowes	Postage Meter Refill - July	124730	1,065.33
Plumbers Depot Inc	Sewer Cleaning - Nozzle Head Replacement - Collections	124731	504.88
Ramco	Concrete Recycling	124732	260.00
Richard W. Gittings	Hillside Development - July	124733	1,748.00
Rick Post Welding	Emergency Welding Svcs - 415 Coronado Hills	124734	1,313.25
Road Soup LLC	Asphalt	124735	7,431.50
Safety-Kleen Systems Inc	Parts Washer Rental	124736	508.46
San Diego County Water Authority	COWU Meeting Registration Fees, Hernandez, Pennock, Sannella, Gumpel	124737	220.00
San Marcos Trophy	Name Plates - 3	124738	48.49
Scada Integrations	Data Retrieval & Programming MRF Scada	124739	595.00
Standard Insurance Company	LIFE, LTD, & ADD Insurance - Aug	124740	6,049.26
T.S. Industrial Supply	Hardware Supplies	124741	252.83
Tank Specialists of California	Fuel Island Maintenance - June	124742	240.00
Terra Verde Energy LLC	Annual Asset Management Svcs 22-23 Prj 20221-6	124743	24,426.00
Thomas Beier	Reimbursement - SSCP IT Certification	124744	125.00
John Truppa	Reimbursement - Meals For Water Main Repair	124745	168.29
Trussell Technologies Inc	Sodium Hypochlorite Design Review Prj 20171-2	124746	7,355.00
Unifirst Corporation	Uniform Delivery	124747	903.14
Unitis, Inc.	Rapidset Concrete	124748	1,482.21
Univar USA Inc	Sodium Hypo Liquichlor & Caustic Soda	124749	7,176.87
UPS	Shipping Svcs - July	124750	162.72
Vesta Modular	Covid Trailer Rental Prj 20211-850	124751	1,023.63
Water Environment Federation	Membership Renewal 22-23	124752	332.00
Work Partners Occupational Health Specialists	Medical Svcs - July	124753	598.34
Garnishments	Payroll Garnishments	124754	-
Advanced Industrial Services, Inc.	Sage Canyon Tank Refurbishment Prj 20201-6	124755	74,955.00
Aqua-Metric Sales Co	Sensus Data Pull Communicator	124756	412.50
Best Best & Krieger	Legal Svcs - June	124757	1,487.70
Garnishments	Payroll Garnishments	124758	-
Calolympic Safety	Safety Gloves	124759	282.52
City of Carlsbad	Quarterly Sewer Svc	124760	8,623.20
Consolidated Electrical Distributors, Inc.	LED Light Bulbs - 160	124761	1,465.40
Imperial Sprinkler Supply	Hardware Supplies	124762	266.94
Joe's Paving Co Inc	Asphalt Replacement - Island Drive - 3,652 Sq. Ft.	124763	34,511.40
Laser Cut Concrete Cutting Inc	Core Drilling Svcs - South Lake Camera System	124764	250.00
Lawnmowers Plus Inc	Hardware Supplies	124765	345.48
Mallory Safety & Supply, LLC	Warehouse Rubber Boot Restock - 471 Pairs	124766	1,373.83
One Source Distributors LLC	Rockwell Software Maintenance Support 22-23 - SCADA	124767	3,130.00
Pacific Pipeline Supply	Brass Restock - Ball Valves - 23, Gate Valves - 2	124768	9,425.54
Pollard Water	Dichlorination Tablets - Qty 560	124769	852.55
PSI Water Technologies, Inc	Mahr Regeneration System Cell Replacements - 3	124770	20,705.83
Garnishments	Payroll Garnishments	124771	-
Total Compensation Systems, Inc.	GASB 75 - Full Valuation - 2nd Installment	124772	1,665.00
Vortex Industries Inc	Emergency Repair Svcs - Front & Middle Gates - District HQ	124773	920.00
Waxie Sanitary Supply	Cleaning Supplies	124774	1,150.06
Work Partners Occupational Health Specialists	Covid Testing - June	124775	2,091.00
State Water Resources Control Board	Arrearages Program	124776	45,637.19
Home Depot Credit Services	Hardware Supplies - July	124777	1,231.98
Union Bank FKA 1st Bank Card	Meetings & Travel - July	124778	6,438.29
Union Bank FKA 1st Bank Card	Meetings & Travel - July	124779	3,855.91
Union Bank FKA 1st Bank Card	Meetings & Travel - July	124780	6,323.55
Garnishments	Payroll Garnishments 124781 through	124783	-
Accurate Security Pros, Inc.	Troubleshoot - Security Access - Meters Dept Door	124784	277.50
Ace Reid	Closed Account Refund	124785	77.01
Action Mail	Splash Winter Newsletter Prj 20231-65	124786	7,620.45

VALLECITOS WATER DISTRICT
WARRANTS LIST
September 7, 2022

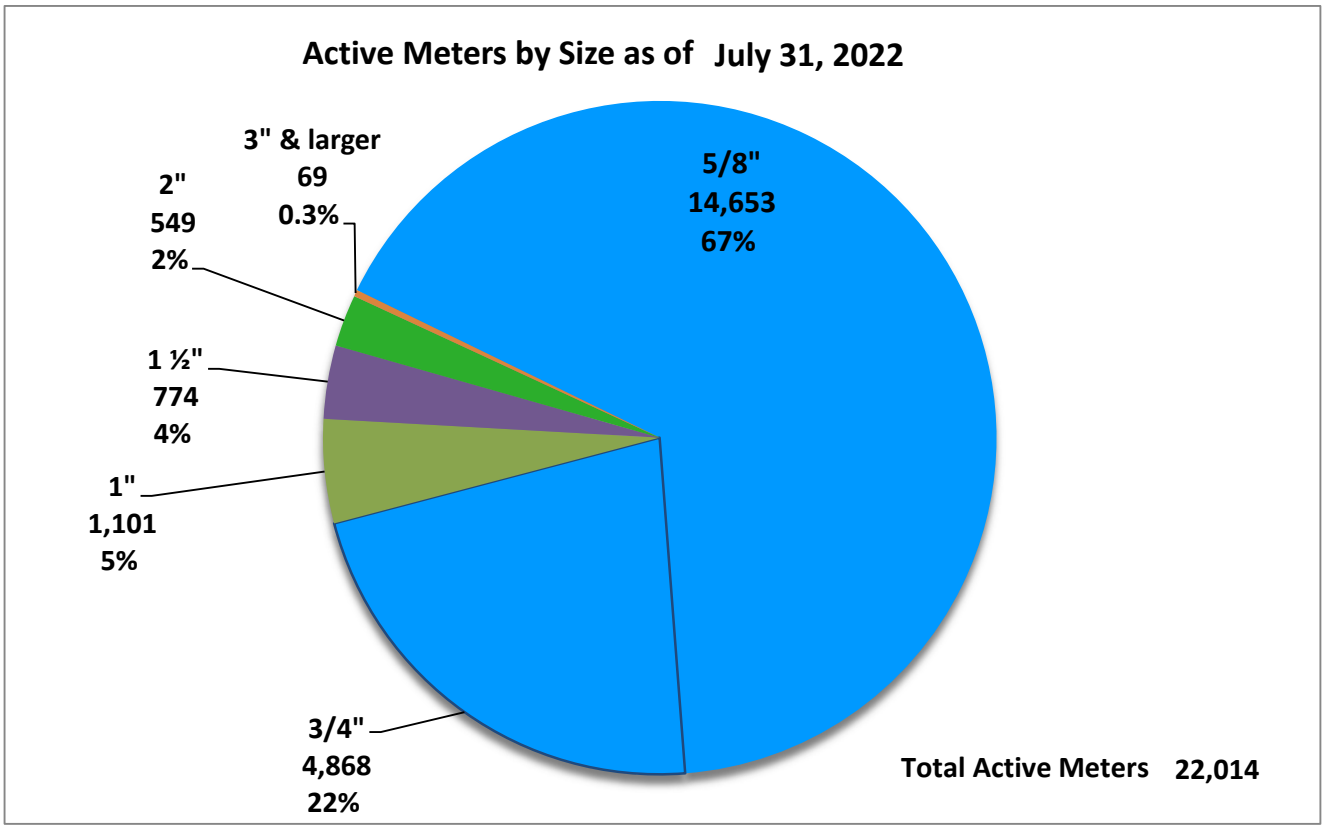
PAYEE	DESCRIPTION	CHECK#	AMOUNT
ACWA/Joint Powers Insurance	Workers Compensation Quarter Ending 6-30-22	124787	32,843.49
Advanced Imaging Solutions, Inc.	Copier Lease - July	124788	2,451.32
Aerotek, Inc.	Temp Agency Part-Time Meter Dept - PPE 7-23-22, 7-30-22 & 8-6-22	124789	2,381.98
Airgas USA LLC	Welder & Welding Supplies, Utility Cart, Cylinder Rental	124790	3,368.57
Airwave Mechanical	Emergency Boiler Repair - District HQ	124791	1,812.00
AIS Specialty Products, Inc.	Printing Contract Apr - July	124792	128.53
Alexandra Tavares	Closed Account Refund	124793	22.87
Alison Fretwell	Self Improvement Program	124794	1,405.51
Ambius	Plant Maintenance - Aug	124795	296.00
Amy Van Kooten	Closed Account Refund	124796	25.39
Nu Concepts	Portable Restrooms - 2 Includes: Trailers, & Accessories Prj 20231-52	124797	25,251.54
Aqua-Metric Sales Co	MXU's - 54, 1 1/2" Meters - 5	124798	19,925.57
AT&T	Phone Svc - July	124799	5,289.63
Backflow Solutions, Inc.	Backflow Tests July - Qty 354	124800	5,292.30
Ben Crane	Scholarship Contest Winner Prj 20231-67	124801	1,200.00
Beth & Grace Driscoll	Closed Account Refund	124802	46.58
Boncor Water Systems	Soft & Drinking Water Svc - July	124803	1,201.50
Bonsall Petroleum Constr Inc	APCD - Fuel Island Testing	124804	1,405.54
Boot World Inc	Safety Boots	124805	110.05
C. Ann Gomez	Scholarship Contest Winner Prj 20231-67	124806	1,200.00
California Special District Association	Dinner Meeting Registration 8-18-22 - Gumpel, Hernandez, Sannella	124807	195.00
Capt Rodney Davis	Closed Account Refund	124808	33.21
Carolin McCreery	Closed Account Refund	124809	99.36
CDW Government Inc	Varonis Software Support & Subscription Renewal 22-23	124810	8,845.62
Charissa Houser	Deposit Refund Prj 20221-720	124811	766.79
Christopher Driscoll	Closed Account Refund	124812	90.18
Construct Inc.	Deposit Refund Prj 20191-517	124813	10,391.48
Culver Company LLC	Poppy Seeds For Water Wise Landscaping Prj 20231-69	124814	313.39
CWEA	Collection Cert Renewal - D Richardson	124815	96.00
Doane & Hartwig Water Systems Inc	Hardware Supplies	124816	195.18
DirecTV Inc	Satellite Svc - Aug	124817	93.24
Downstream Services Inc	Closed Account Refund	124818	999.14
Electrical Sales Inc	LED Light Bulbs - 60	124819	582.86
Rhondi Emmanuel	Reimbursement - Quarterly Supervisor Meeting	124820	294.54
Employment Development Dept.	Pest Control Svcs - July	124821	450.00
Enterprise Automation	SCADA Assessment & Master Plan Prj 20201-4	124822	2,601.50
Ernie Alvarado	Scholarship Contest Winner Prj 20231-67	124823	1,200.00
Escondido Metal Supply	Hardware Supplies	124824	206.88
Estate of Barbara Andrews or William Weeden	Closed Account Refund	124825	592.66
Euromarket Designs Inc	Closed Account Refund	124826	7.29
Ewing Irrigation Products	Landscaping Chemicals	124827	1,247.86
Federal Express Corp.	Shipping Svcs - July	124828	40.16
Francisco Gonzales	Closed Account Refund	124829	21.97
Freeway Trailer Sales	Fleet Supplies	124830	318.89
Garrett Sickels	Closed Account Refund	124831	98.39
Giovanny Rodriguez	Scholarship Contest Winner Prj 20231-67	124832	1,200.00
Golden State Graphics	High Water Use Notification Postcards - Meter Dept	124833	507.50
Grangetto's Farm Garden Supply	Landscaping Chemicals	124834	508.04
Haaker Equipment Co.	Ramjet Pump Rebuild - Parts & Labor	124835	5,116.59
Hach Company	Water Quality Testing Supplies	124836	2,231.48
Harper & Associates Inc	Sage Canyon Tank Refurbishment Prj 20201-6	124837	13,968.00
Hawthorne Machinery Co.	Excavator Rental - Demo of Old CL2 Building - Coggan PS Prj 20231-18	124838	2,946.37
Hawthorne Tire Auto Service	Alignment - Veh 213	124839	95.00
James R Hernandez	San Marcos Chamber of Commerce Mixer 7-28-22	124840	2.57
Ikue & Steven Harris	Closed Account Refund	124841	20.82
Infosend Inc	Postage, Printing, Processing & Door Hangers - July	124842	3,321.76
James O'Brien	Deposit Refund Prj 20221-694	124843	1,402.84
Jane or Adam Matusz	Closed Deposit Refund	124844	108.54
Jasna Savovic	Closed Account Refund	124845	1,054.44
Jason Martins	Closed Account Refund	124846	48.04
Jeffery Pennington or Sharon McAllister	Closed Account Refund	124847	13.56
Joe's Paving Co Inc	Asphalt Replacement - 1715 Weatherwood Ct - 2,210 Sq. Ft.	124848	30,237.28

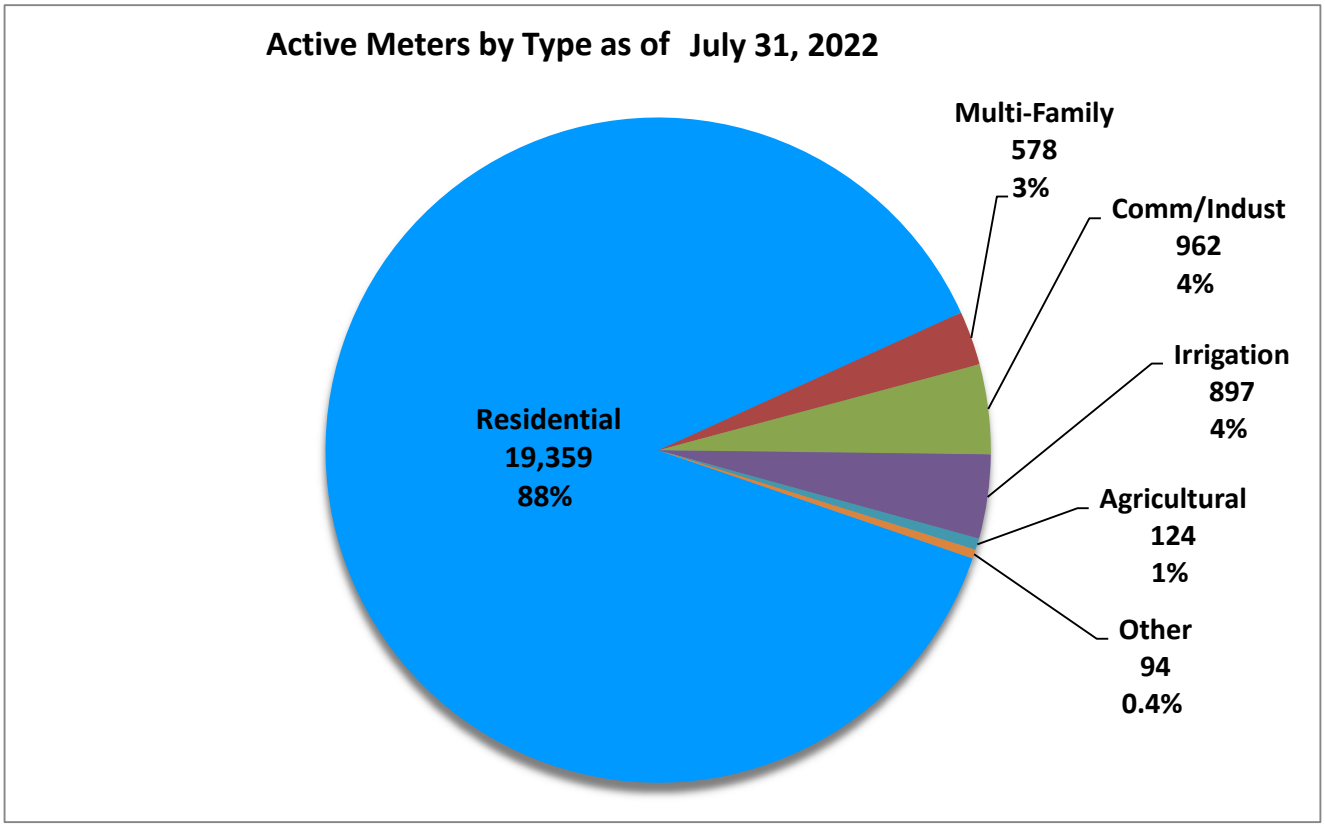
PAYEE	DESCRIPTION	CHECK#	AMOUNT
JCI Jones Chemicals Inc	Chlorine	124849	10,710.75
Ken Grody Ford	Transmission Replacement Veh 249, Water Pump Failure Repair Veh 248	124850	10,553.06
Knight Security & Fire Systems	Monitoring, Patrol, & Answering Svc - Aug, Smoke Detector Svc - MRF	124851	961.69
Knox Company	Key Switch Replacement - Middle Gate - District HQ	124852	159.48
KRC Rock Inc	Mulch - Bldg A	124853	1,488.19
Kristen Hui Weiss	Scholarship Contest Winner Prj 20231-67	124854	1,200.00
Lantelligence, Inc.	Shoretel Phone Support Renewal 22-23	124855	8,041.23
Lifeline Rescue	CPR/First Aid/AED Training - 20 Employees	124856	1,160.00
Linda Reynolds	Closed Account Refund	124857	242.85
Lloyd Pest Control	Pest Control Svcs - July	124858	260.00
Mallory Safety & Supply, LLC	Safety Vests, Gloves, Safety Glasses	124859	3,469.69
Marc Lawrence	Closed Account Refund	124860	20.25
Mark Gray or Cindy Winters	Closed Account Refund	124861	36.18
Marysia & Jesse Baartman	Closed Account Refund	124862	98.16
Matheson Tri-Gas Inc	Cylinder Rental	124863	80.17
Matthew Thompson	Reimbursement - CWEA Cert & Membership Renewal	124864	293.00
Michael Green	Closed Account Refund	124865	119.70
Mike Sannella	COWU Meeting 7-19-22, San Marcos Chamber of Commerce Mixer 7-28-22	124866	35.80
Mountains Move LLC	Closed Account Refund	124867	59.97
Nancy Dirks	Closed Account Refund	124868	112.41
Nancy Johnson	Closed Account Refund	124869	94.39
NeoGov	Government Jobs.com - Subscription Renewal 22-23	124870	7,196.56
North County Auto Parts	Fleet Supplies - July	124871	875.54
Pacific Pipeline Supply	Couplings - 8, Pipe Fitting Restraints - 9, Pressure Regulators - 10, Valve Gate	124872	15,627.15
Pencco, Inc.	Calcium Nitrate	124873	7,843.33
Perrine Construction	Closed Account Refund	124874	410.82
Polydyne Inc	Clarifloc	124875	33,772.20
Recycled Aggregate Materials Co Inc	Concrete Recycling	124876	1,620.00
Raymond Allyn Business Supplies	Office Furniture For Engineering Dept. Electric Height Adjustable Desk & Drawers	124877	2,510.61
Realvnc Ltd	SCADA Secure Access Software Renewal 22-23	124878	709.78
Recon Environmental Inc	Emergency Bypass Pipeline Rehabilitation 20211-3	124879	446.50
Rick Post Welding	Welding Svcs - Emergency Water Main Repair	124880	1,783.00
Road Soup LLC	Asphalt	124881	7,431.50
Rusty Wallis Inc	Water Softener & Water System Service July - MRF	124882	1,194.00
SDG&E	Power - June & July	124883	2,817.46
San Elijo Joint Powers Authority	North San Diego Water Reuse Coalition 2021 Payment	124884	666.67
Shahnaz Ghaffari	Closed Account Refund	124885	40.69
SHI International Corp.	Laptop, Monitor Soundbars - 18	124886	4,300.04
Smart Cover Systems	Smart Cover Meters - 6, Includes Installation & Software Renewal 22-23	124887	34,037.50
Southern Counties Lubricants, LLC	Diesel & Unleaded Gasoline	124888	23,298.74
Sparling Instruments LLC	Annual Flow Meter Calibrations - 30	124889	6,221.60
SS Mechanical Construction Corp.	Aerations Basins Capital Improvement Prj 20191-2	124890	43,962.18
SSA Solar of CA 5, LLC	District Solar Project May - July	124891	93,838.36
Stericycle, Inc.	Shredding Svcs - July	124892	370.35
Stuart Alleyn	Closed Account Refund	124893	41.26
Sureride Charter Inc	Charter Bus For Water Academy Tour Prj 20231-65	124894	1,799.00
Susan Renk	Closed Account Refund	124895	19.12
T.S. Industrial Supply	Car Wash Supplies - Pressure Washer Wands	124896	680.01
Total Resource Mgt Inc	Maximo Annual Subscription & Support Renewal 22-23	124897	70,914.30
Trevor Heid	Deposit Refund Prj 20211-715	124898	210.61
Trussell Technologies Inc	MRF Biological Selector Improvements Prj 20191-2	124899	17,720.00
Underground Service Alert	Dig Alert Svc & CA State Regulatory Fees - July	124900	733.99
Unifirst Corporation	Uniform Delivery	124901	2,526.28
Univar USA Inc	Sodium Hypo Liquichlor	124903	2,329.36
UPS	Shipping Svcs - July	124904	6.67
Verizon Wireless	Cell Phone Svc - July	124905	2,393.50
VWR International	Hardware Supplies	124906	57.69
Walter Bridgewater	Closed Account Refund	124907	32.55
Waxie Sanitary Supply	Cleaning Supplies	124908	496.03
Weck Analytical Environmental Services, Inc.	Water Sampling	124909	1,218.00
All County Fire Protection	Deposit Refund Prj 20221-705	124910	1,099.22
Consolidated Electrical Distributors, Inc.	LED Light Bulbs - 160	124911	1,465.40

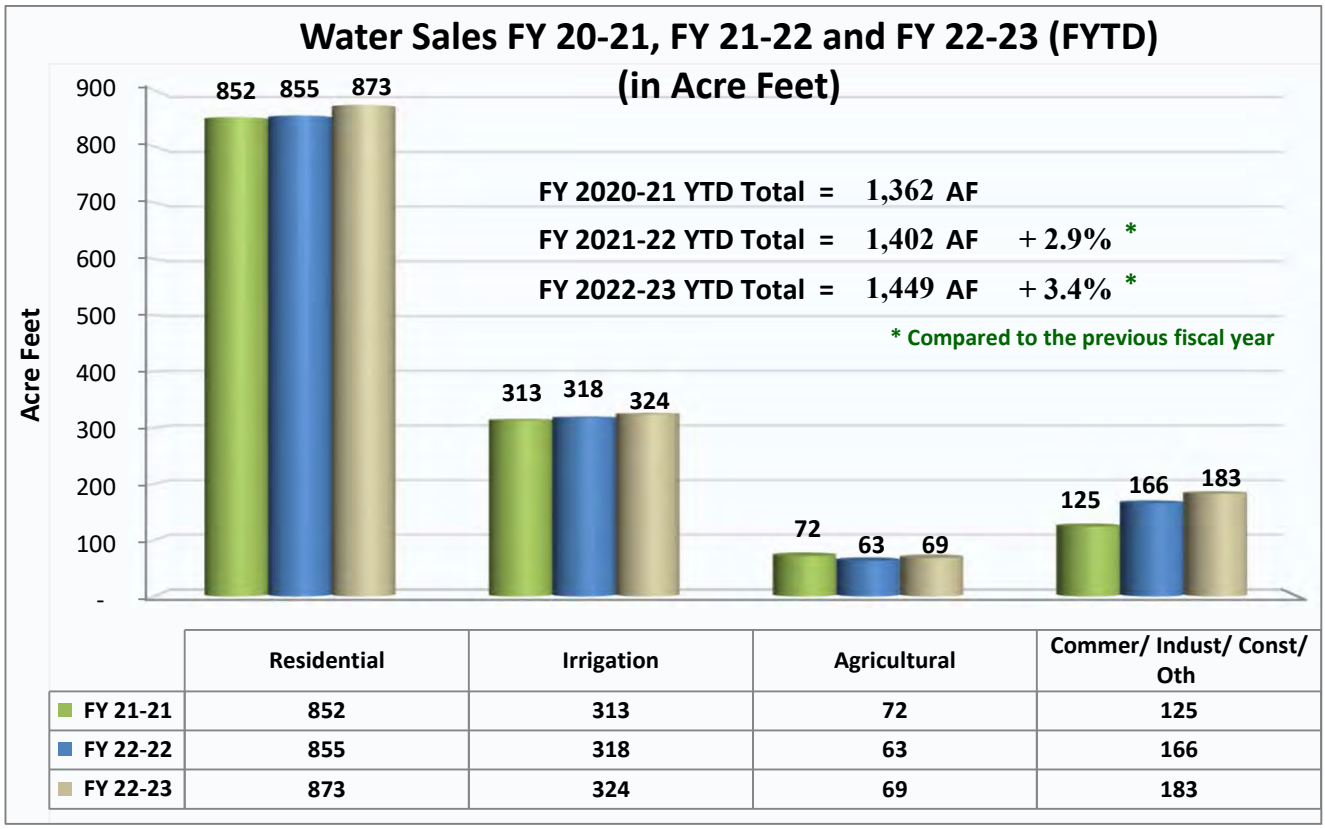
VALLECITOS WATER DISTRICT
WARRANTS LIST
September 7, 2022

PAYEE	DESCRIPTION		CHECK#	AMOUNT
Employment Screening Services Inc	Employment Screening Svcs		124912	88.00
Evoqua Water Technologies LLC	Parts For Emergency Basin Repair - Flight Channels - 24 - Basin #4 MRF		124913	12,005.08
Grainger Inc	Water Filter System & Filters, Corrosive Safety Cabinet		124914	725.90
Paul & Carline Sreboth	Duplicate Payment Refund		124915	536.61
Total Disbursements (247 Checks)				1,631,480.53
WIRES				
San Diego County Water Authority	July Water Bill		Wire	3,362,591.13
Encina Wastewater Authority	Quarterly Billing		Wire	742,083.07
Public Employees Retirement System	Retirement Contribution - August 9, 2022 Payroll		Wire	77,255.71
Public Employees Retirement System	Retirement Contribution - August 23, 2022 Payroll		Wire	79,434.92
Total Wires				4,261,364.83
PAYROLL				
Total direct deposits			Wire	335,537.69
VWD Employee Association			124754	578.00
Payroll & Garnishments	Payroll Garnishments	124758 and	124771	1,593.69
IRS	Federal payroll tax deposits		Wire	126,094.86
Employment Development Department	California payroll tax deposit		Wire	27,655.00
CalPERS	Deferred compensation withheld		Wire	28,941.61
VOYA	Deferred compensation withheld		Wire	8,935.67
Total August 9, 2022 Payroll Disbursements				529,336.52
Total direct deposits			Wire	260,990.06
VWD Employee Association			124781	566.00
Payroll & Garnishments	Payroll Garnishments	124782 through	124783	1,096.82
IRS	Federal payroll tax deposits		Wire	103,126.23
Employment Development Department	California payroll tax deposit		Wire	21,868.45
CalPERS	Deferred compensation withheld		Wire	21,154.86
VOYA	Deferred compensation withheld		Wire	7,235.67
Total August 23, 2022 Payroll Disbursements				416,038.09
Total direct deposits			Wire	6,572.58
IRS	Federal payroll tax deposits		Wire	4,470.49
Employment Development Department	California payroll tax deposit		Wire	866.92
CalPERS	Deferred compensation withheld		Wire	2,717.62
Special Payroll Disbursements (i.e., final checks, accrual payouts, etc.)				14,627.61
Total Payroll Disbursements				960,002.22
TOTAL DISBURSEMENTS				6,852,847.58

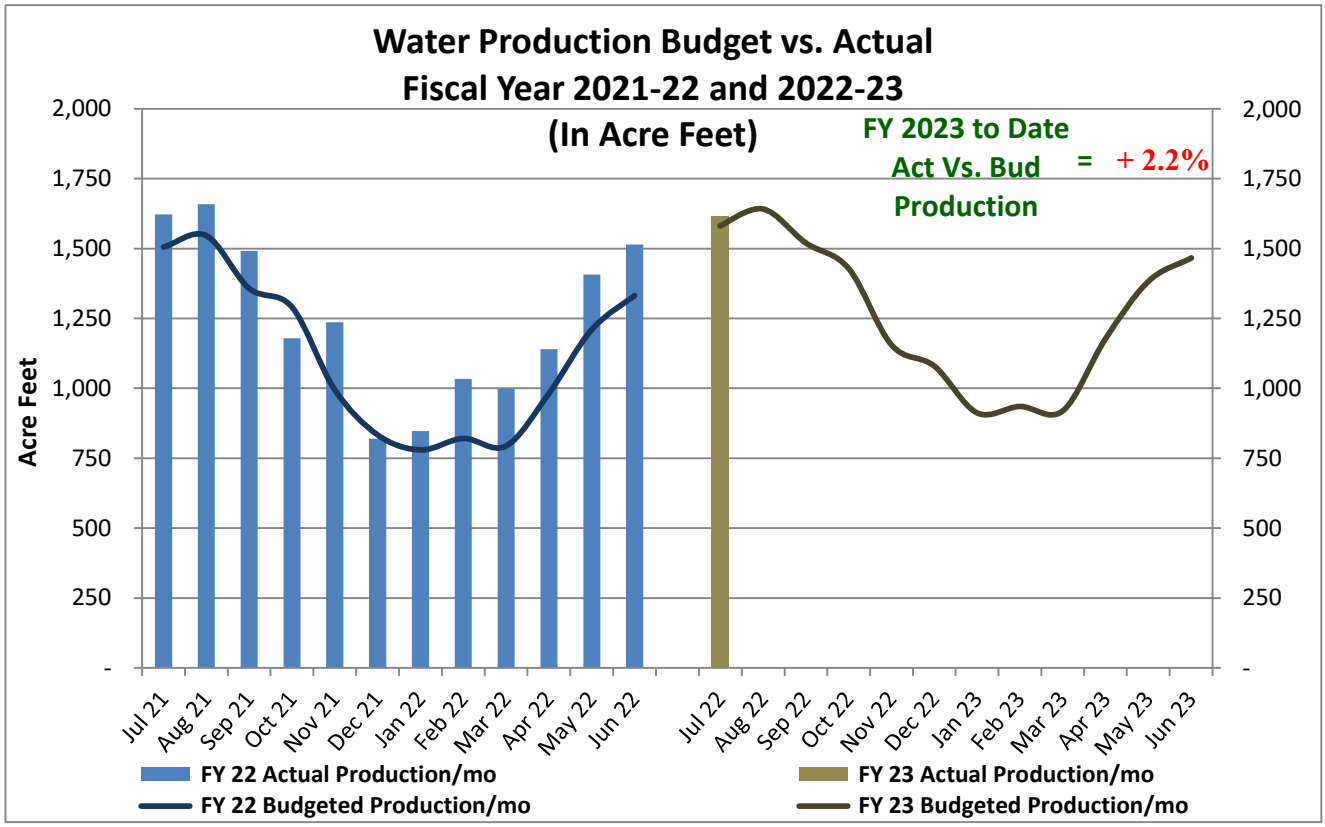
Vallecitos Water District
Active Water Meters
July 31, 2022

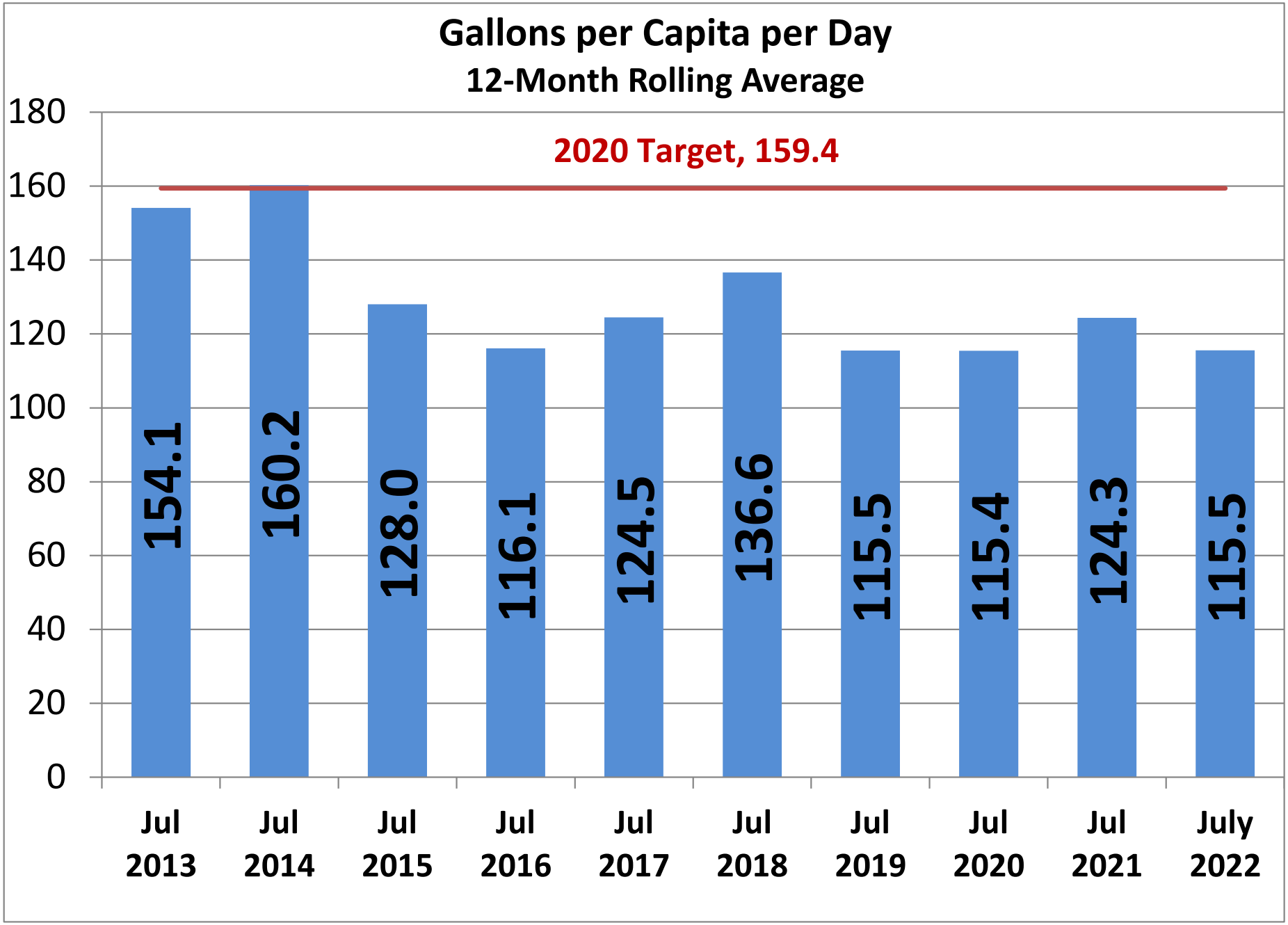






	Residential	Irrigation	Agricultural	Commer/ Indust/ Const/ Oth
FY 21-21	852	313	72	125
FY 22-22	855	318	63	166
FY 22-23	873	324	69	183




Gallons per Capita per Day
12-Month Rolling Average
2020 Target, 159.4
180
160
140
120
100
80
60
40
20
0
154.1
160.2
128.0
116.1
124.5
136.6
115.5
115.4
124.3
115.5
Jul 2013
Jul 2014
Jul 2015
Jul 2016
Jul 2017
Jul 2018
Jul 2019
Jul 2020
Jul 2021
July 2022

DATE: **SEPTEMBER 7, 2022**
TO: **BOARD OF DIRECTORS**
SUBJECT: **MONTHLY FINANCIAL REPORTS**

BACKGROUND:

The Monthly Revenue and Expense Reports and the Reserve Report for the month ended July 31, 2022, are presented.

DISCUSSION:

The Monthly Revenue and Expense reports summarize revenues by service type and expenses by department over the 1-month period. Comparisons to prior year actual and current year budget amounts are also presented. Each statement contains footnotes regarding significant variances exceeding predetermined dollar and percentage amounts. Any excess of revenues over expenses are transferred to reserves and any excess of expenses above revenues are paid for out of reserves. It's important to note that amounts shown in the in the Revenue and Expense reports are unaudited and do not reflect actual transfers to/from reserves. Actual transfers will be posted upon completion of the fiscal year-end audit.

The Monthly Reserve Report presents the balances in each of the District's reserve funds. The report summarizes all sources and uses of reserves. Sources consist of operating transfers, capital facility fees, property taxes, dissolved RDA distributions, investment earnings and annexation fees. Uses are distributions for capital projects, debt service, PERS UAL Additional Discretionary Payments (ADP), and interest expense. Unaudited amounts for operating transfers are reflected in the reserve report using the most recent information available at the time of reporting. Actual transfers will be posted upon completion of the audit in December of the following fiscal year which may result in adjustments to the beginning reserve balances.

RECOMMENDATION:

For information only.

Vallecitos Water District
Water Revenue and Expense Report
For the One Month Ended July 31, 2022

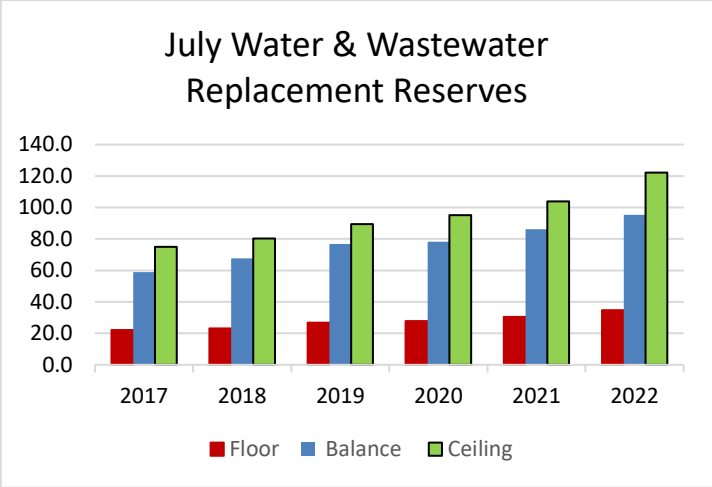
	Current Year Actual	Prior Year Actual	Variance		Current Year Budget	Variance	
		Amount	$	%	Amount	$	%
Revenue							
Water Sales	$ 3,359,645	$ 3,220,868	$ 138,777	4.3%	$ 3,254,000	$ 105,645	3.2%
Ready-to-serve	1,228,222	1,222,542	5,680	0.5%	1,235,000	(6,778)	-0.5%
Pumping cost recovery	44,087	40,764	3,323	8.2%	45,000	(913)	-2.0%
Late & lock charges	26,861	20,847	6,014	28.8%	31,000	(4,139)	-13.4%
Backflow fees	10,037	9,104	933	10.2%	6,000	4,037	67.3%
Other revenue	10,995	9,810	1,185	12.1%	20,500	(9,505)	-46.4%
Total Revenue	4,679,847	4,523,935	155,912	3.4%	4,591,500	88,347	1.9%
Expenses							
Water costs	3,341,108	3,148,350	192,758	6.1%	3,367,000	(25,892)	-0.8%
Pumping costs	64,311	69,555	(5,244)	-7.5%	85,000	(20,689)	-24.3%
Water quality	2,691	4,259	(1,568)	-36.8%	13,000	(10,309)	-79.3%
Water treatment	37,153	26,483	10,670	40.3%	38,000	(847)	-2.2%
Tanks & reservoirs	17,193	24,369	(7,176)	-29.4%	44,000	(26,807)	-60.9%
Trans & distribution	113,073	111,011	2,062	1.9%	156,000	(42,927)	-27.5%
Services	2,648	3,399	(751)	-22.1%	6,000	(3,352)	-55.9%
Meters	27,688	68,314	(40,626)	-59.5%	77,000	(49,312)	-64.0%
Backflow prevention	9,028	-	9,028	100.0%	8,000	1,028	12.9%
Customer accounts	25,418	72,896	(47,478)	-65.1%	73,000	(47,582)	-65.2%
Building & grounds	23,188	23,984	(796)	-3.3%	43,000	(19,812)	-46.1%
Equipment & vehicles	15,527	15,816	(289)	-1.8%	31,000	(15,473)	-49.9%
Engineering	82,714	106,665	(23,951)	-22.5%	137,000	(54,286)	-39.6%
Safety & compliance	17,009	10,145	6,864	67.7%	30,000	(12,991)	-43.3%
Information Technology	54,922	75,723	(20,801)	-27.5%	90,000	(35,078)	-39.0%
General & administrative	158,991	262,902	(103,911)	-39.5%	277,000	(118,009)	-42.6%
Total Expenses	3,992,662	4,023,871	(31,209)	-0.8%	4,475,000	(482,338)	-10.8%
Net Operating Income	$ 687,185	$ 500,064	187,121	37.4%	$ 116,500	570,685	489.9%

Vallecitos Water District
Sewer Revenue and Expense Report
For the One Month Ended July 31, 2022

	Current Year Actual	Prior Year Actual	Variance		Current Year Budget	Variance	
		Amount	$	%	Amount	$	%
Revenue							
Sewer service charges	$ 1,492,776	$ 1,535,051	$ (42,275)	-2.8%	$ 1,456,000	$ 36,776	2.5%
Reclaimed water sales	256,667	247,917	8,750	3.5%	258,000	(1,333)	-0.5%
Other revenue	8,944	9,071	(127)	-1.4%	17,000	(8,056)	-47.4%
Total Revenue	1,758,387	1,792,039	(33,652)	-1.9%	1,731,000	27,387	1.6%
Expenses							
Collection & conveyance	135,575	144,982	(9,407)	-6.5%	222,000	(86,425)	-38.9%
Lift stations	11,787	13,274	(1,487)	-11.2%	22,000	(10,213)	-46.4%
Source Control	7,500	13,434	(5,934)	-44.2%	16,000	(8,500)	-53.1%
Effluent disposal	275,333	278,250	(2,917)	-1.0%	277,000	(1,667)	-0.6%
Meadowlark	149,841	178,717	(28,876)	-16.2%	242,000	(92,159)	-38.1%
Customer Accounts	19,741	40,193	(20,452)	-50.9%	46,000	(26,259)	-57.1%
Building & grounds	13,668	14,070	(402)	-2.9%	23,000	(9,332)	-40.6%
Equipment & vehicles	13,261	14,438	(1,177)	-8.2%	30,000	(16,739)	-55.8%
Engineering	29,517	46,120	(16,603)	-36.0%	72,000	(42,483)	-59.0%
Safety & compliance	5,915	4,887	1,028	21.0%	27,000	(21,085)	-78.1%
Information technology	39,188	77,680	(38,492)	-49.6%	76,000	(36,812)	-48.4%
General & administrative	84,817	115,762	(30,945)	-26.7%	131,000	(46,183)	-35.3%
Total Expenses	786,143	941,807	(155,664)	-16.5%	1,184,000	(397,857)	-33.6%
Net Operating Income	$ 972,244	$ 850,232	122,012	14.4%	$ 547,000	425,244	77.7%

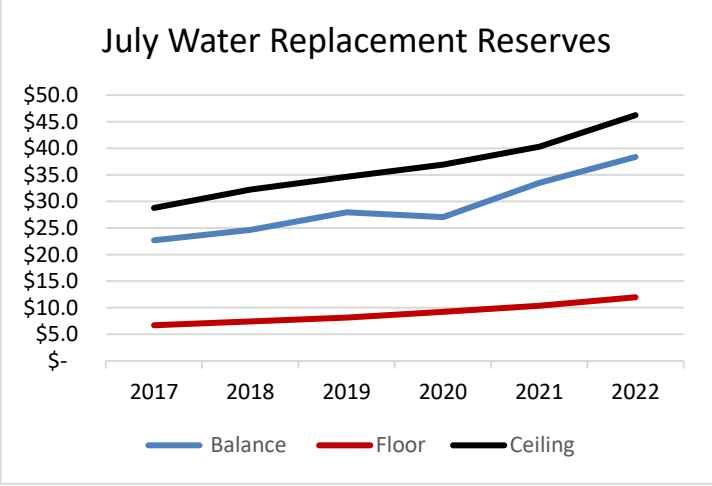
REPLACEMENT RESERVES

The District maintains two replacement reserves in cash equivalents and investments: One for the District's water system and the other for the District's wastewater system. The District's reserve policy establishes a floor for replacement reserves after funding operating reserves as the sum of three years of projected system replacement costs, and a ceiling as the sum of ten years of projected system replacement costs for water or the sum of eight years of projected system replacement costs for sewer. As of July 31, 2022, the total water and wastewater replacement reserve balance was $95.4 million, 10.7 percent higher than July 31, 2021.



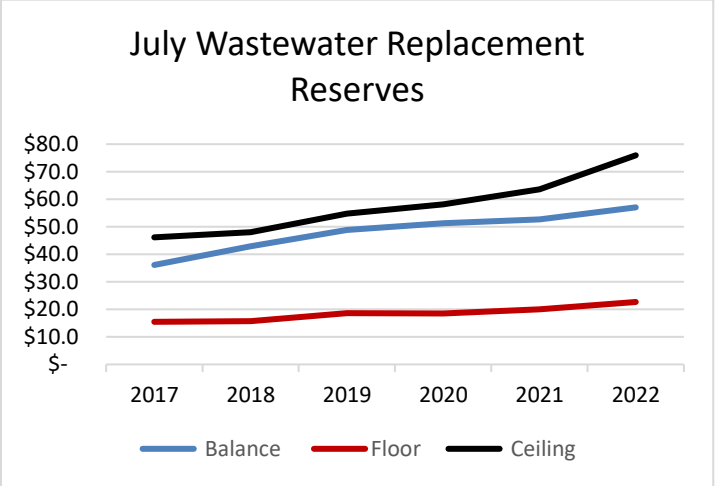
WATER REPLACEMENT RESERVE

As of July 31, 2022, the District's water replacement reserve totaled $38.4 million, an increase of 14.4 percent, or $4.8 million higher from the same month of the prior year. The month-end balance is within the floor and ceiling established by the reserve policy, leaving the District with sufficient reserves to meet infrastructure replacement needs.



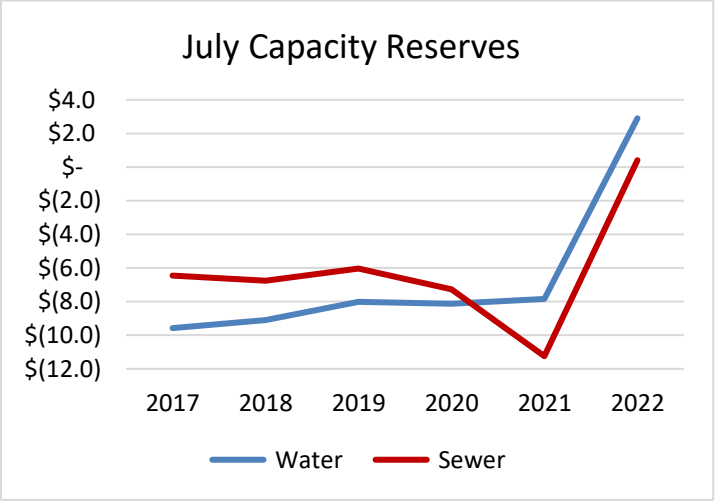
WASTEWATER REPLACEMENT RESERVE

As of July 31, 2022, the balance in the District's wastewater replacement reserve totaled $57.1 million, an increase of 8.3 percent, or $4.4 million, from the same month of the prior year. The month-end balance is within the approved floor and ceiling.



CAPACITY RESERVES

The District collects capital facility fees from new development and increased demands from existing customers, maintains the collected fees in separate funds (one for water and one for wastewater), and uses the funds exclusively to provide capacity to serve new development and fund future construction of facilities identified in the District's Master Plan and capital budget. As of July 31, 2022, the water capacity fund had a balance of $2.9 million and the sewer capacity fund had a balance of $0.4 million. The District's capital facility fees situation has improved as a result of the adoption of the new Master Plan and the corresponding capacity fee study.



VALLECITOS WATER DISTRICT

RESERVE ACTIVITY FOR THE MONTH ENDED JULY 31, 2022

	110 Water 120		210 Wastewater 220		
	Replacement	Capacity	Replacement	Capacity	Total
BEGINNING BALANCE[1]	$ 44,495,222	$ 2,853,201	$ 63,145,239	$ 318,305	$ 110,811,967
REVENUES					
FY 22/23 Operating Transfers[2]	687,185	-	972,244	-	1,659,429
Debt Proceeds	234,458	-	57,077	1,857	293,392
Interfund Transfer	-	234,458	-	57,077	291,535
Capital Facility Fees	-	109,010	-	475,322	584,332
Investment Earnings	77,658	5,799	60,084	2,021	145,562
Property Tax	18,827	-	15,501	-	34,328
Annexation Fees	5,725	-	12,215	-	17,940
TOTAL REVENUES	1,023,853	349,267	1,117,121	536,277	3,026,518
LESS DISTRIBUTIONS					
Carryover Projects					
Sage Canyon Tank Refurbishment	225,186	-	-	-	225,186
16-Inch Emergency Bypass Pipeline Rehabilitation	-	-	33,274	-	33,274
MRF - Conversion to Sodium Hypochlorite	-	-	32,348	-	32,348
Trussel FCF - Water Quality Analyzer	28,747	-	-	-	28,747
San Elijo Pump Station - Water Quality Analyzer	28,747	-	-	-	28,747
Mountain Belle Tank: Asphalt Repair & Sealcoat	16,048	-	-	-	16,048
District-Wide Valve Replacement Program	14,470	-	-	-	14,470
District-Wide Valve Replacement Program	13,687	-	-	-	13,687
Failsafe Buena Sewer Outfall Condition Assessment	-	-	13,592	-	13,592
Meadowlark - Landscaping Improvements	-	-	13,433	-	13,433
Chlorine Contact Tank Expansion	-	-	10,863	-	10,863
MRF - Biological Selector Improvements	-	-	8,279	-	8,279
Energy Management Study	3,846	-	3,695	-	7,541
Las Posas Water Line Replacement	6,264	-	-	-	6,264
MRF Battery Energy Storage System Retaining Wall	-	-	4,681	-	4,681
Montiel Lift Station And Forcemain Replacement	-	-	1,932	1,857	3,789
Sewer Lining and Rehab	-	-	3,468	-	3,468
Tres Amigos Water Line Replacement Phase 1	3,008	-	-	-	3,008
Wulff Pressure Reducing Station	2,978	-	-	-	2,978
MRF - Tertiary Influent Chamber Repairs	-	-	1,882	-	1,882
Craven Pressure Station - Interior Refurbishment	1,708	-	-	-	1,708
MRF - Flow Control Valve & Actuator	-	-	1,540	-	1,540
Palos Vista Pump Station - Motor Starter Upgrade	1,379	-	-	-	1,379
District-Wide SCADA Upgrade Project	699	-	671	-	1,370
All other capital projects	1,781	-	278	167	2,227
Capital Budget - Vehicles and Equipmnt	596	-	3,155	-	3,751
Total Capital Project Expenditures	349,144	-	133,092	2,024	484,260
Interfund Transfer	234,458	-	57,077	-	291,535
Debt Service	-	302,113	-	444,397	746,510
TOTAL DISTRIBUTIONS	583,602	302,113	190,169	446,421	1,522,305
ENDING BALANCE	$ 44,935,473	$ 2,900,356	$ 64,072,190	$ 408,161	$ 112,316,180
Less: Operating Reserves	6,563,800	-	7,021,000	-	13,584,800
Replacement Reserves/Restricted Funds	$ 38,371,673	$ 2,900,356	$ 57,051,190	$ 408,161	$ 98,731,380
Replacement reserve floor	$ 11,981,000		$ 22,684,800		
Replacement reserve ceiling	$ 46,233,100		$ 72,950,000		

Notes:

(1) Beginning balances represent ending balances from the prior year which are adjusted to actual cash and investment balances after completion of the audit around November of the current year

(2) Operating transfers from the unaudited revenue and expense reports are calculated using the most recent information available at the time of this report. Included for reporting purposes, actual transfer amounts will differ.

VALLECITOS WATER DISTRICT
INVESTMENT REPORT FOR JULY 2022

Attached is a detailed list of investments for all District funds that are not needed to meet current obligations. In accordance with Government Code Section 53646, the information is presented to the Board on a monthly basis and includes a breakdown by fund, financial institution, settlement and maturity date, yield, and investment amount. In addition, the report indicates the various percentages of investments in each type of institution.

The process and the presentation of the information to the Board are in compliance with requirements outlined in the District Investment Policy adopted on an annual basis. In addition to the investment portfolio, there are sufficient funds in the Operating Account to meet District obligations for the next 30 days. Maturity dates on investments are structured to meet the future financial obligations of the District (i.e., bond payments and construction projections). In that regard, the District will be able to meet expenditure requirements for the next six months without a need to liquidate an investment earlier than scheduled maturity dates.

Investment activity for the month of July follows:

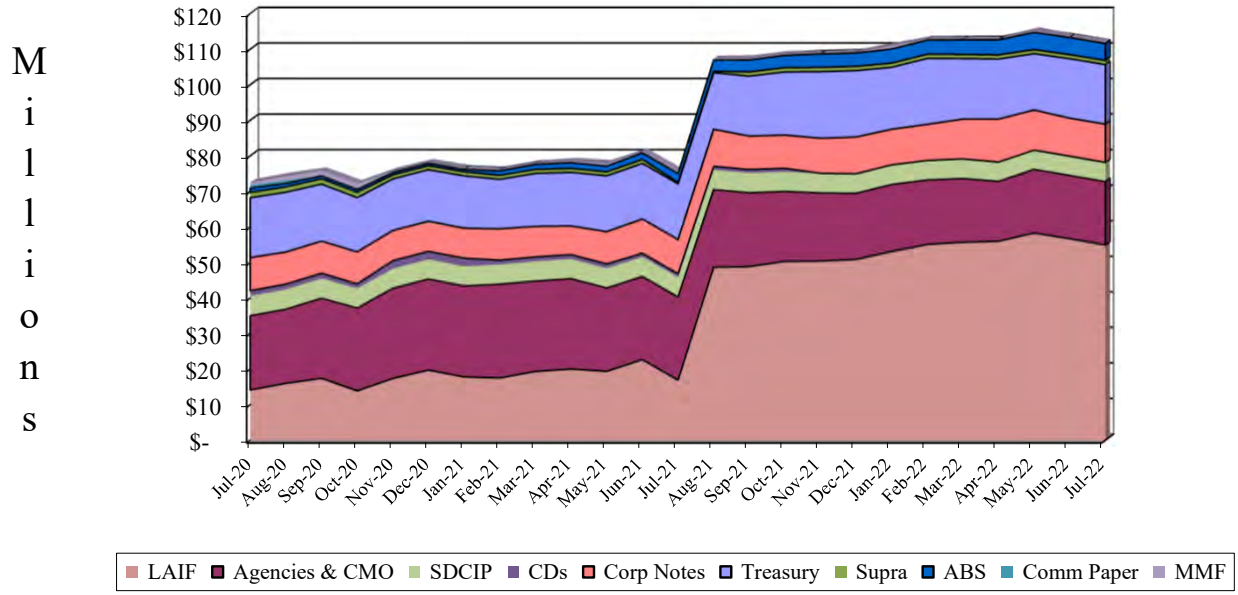
Date	Activity	Investment	Amount	Maturity	Yield
07/11/22	Sold	US Treasury	(985,956)	07/31/22	1.88%
07/11/22	Purchased	US Treasury	974,227	11/15/25	2.25%
07/13/22	Withdrawal	LAIF	(1,500,000)	Open	1.08%
07/15/22	Paid Down	John Deere Trust	(11,985)	08/15/24	1.10%
07/15/22	Paid Down	Toyota Auto Rec	(13,739)	01/15/25	0.35%
07/15/22	Paid Down	Toyota Auto Rec. Trust	(17,770)	05/15/25	0.26%
07/15/22	Interest	LAIF	107,875	Open	1.08%
07/18/22	Deposit	LAIF	1,250,000	Open	1.08%
07/21/22	Withdrawal	LAIF	(300,000)	Open	1.08%
07/27/22	Withdrawal	LAIF	(1,300,000)	Open	1.08%
Change in investments during the month			$ (1,797,348)		

	Current
Weighted average annual yield for total Vallecitos investments	1.180%
Weighted average days to maturity	285

The State Treasurer's Office provides fair market values of LAIF quarterly on their web site. The most recent valuation, which is used on this report, is as of June 30, 2022. The San Diego County Treasurer provides the fair values for the County investment pool. The most recent values and returns, which are used for this report, are for June 30, 2022. Fair values for federal agency obligations and corporate notes are provided by US Bank trust account reporting.

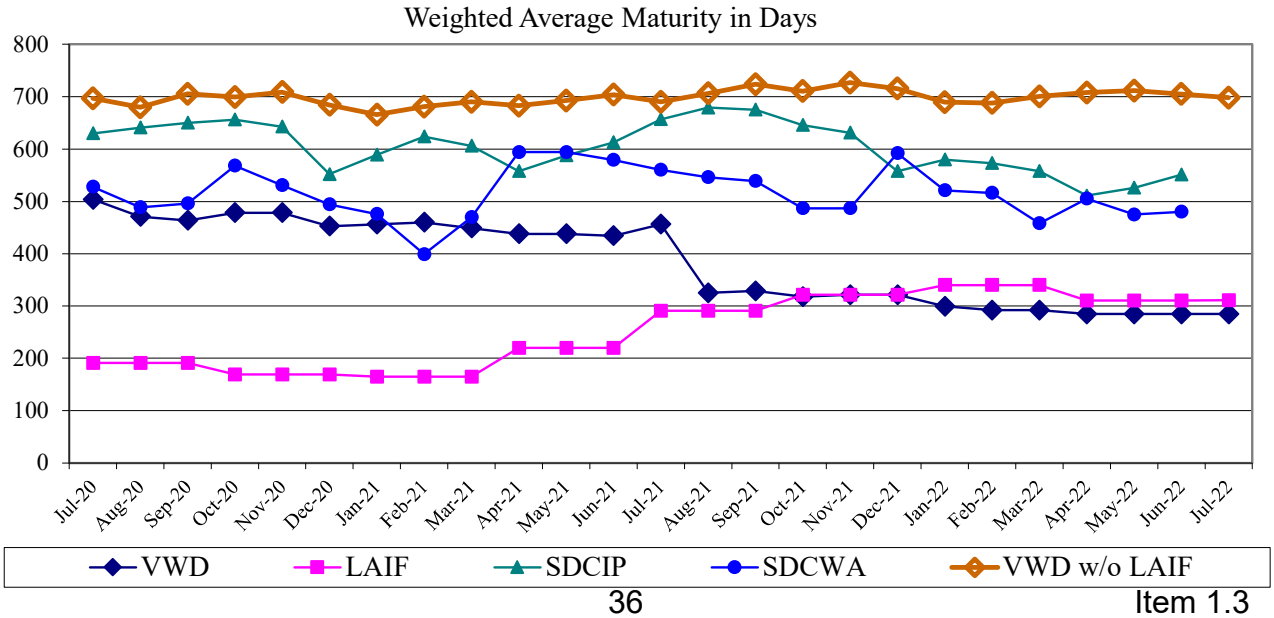
Safety

Criteria for selecting investments and the absolute order of priority are safety, liquidity and yield. To meet the objective of safety and avert credit risk, the District acquires only those investments permitted by the Board adopted investment policy and within the limits established by the policy. Credit risk is the risk that an issuer or other counter party to an investment will not fulfill its obligation. The District also limits risk by investing in a range of investments to ensure diversification as indicated in the graph below.



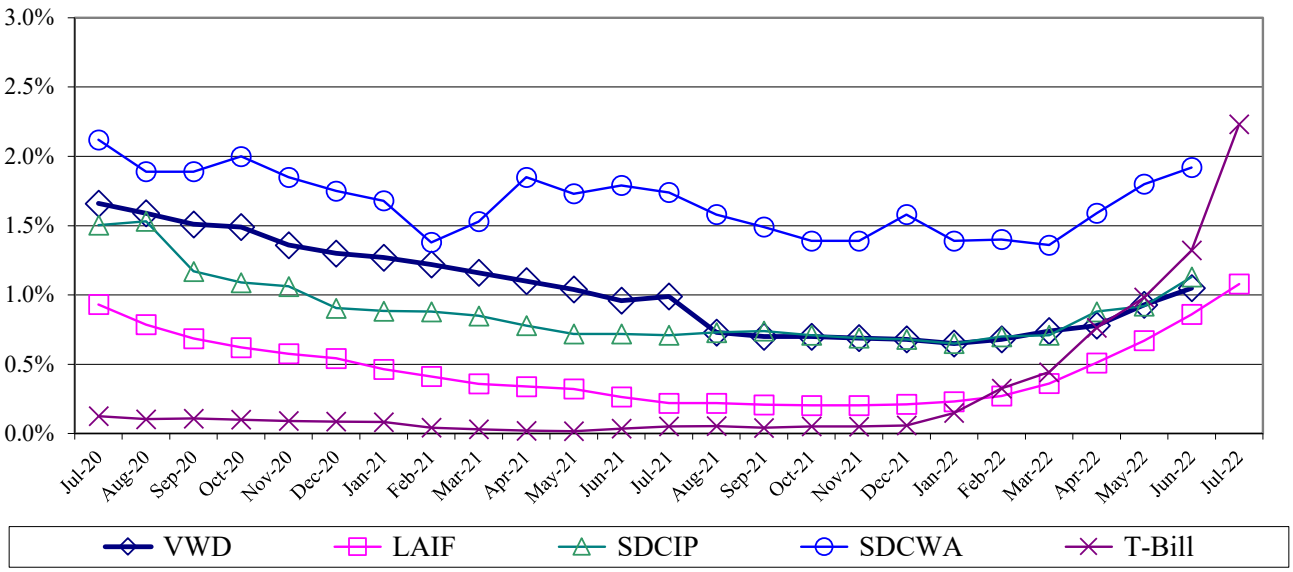
Liquidity

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of investments. The District averts interest rate risk by limiting terms of investments in accordance with the Investment Policy. Maturity in days is a measure of liquidity. The next graph compares the District's liquidity to other managed portfolios. The District's liquidity is graphed with and without LAIF. With LAIF the District is in fact very liquid with $54.9 million available the same day. But for comparative purposes LAIF is eliminated from the District's portfolio and shown separately.



Yield

The next graph compares the District's effective yield to LAIF, SDCIP, San Diego County Water Authority (SDCWA), and the average 91-day Treasury bill rate.



Investment/Debt Management

On March 7, 2018 the District entered into a contract with Chandler Asset Management to provide professional investment management and advisory services. Chandler manages the District's investments in accordance with the District's policy of safety, liquidity, and yield and continues to maintain investments of varying types within limits allowed by the investment policy (100% in federal agency obligations, 100% in LAIF, 100% in other local government investment pools, 25% in FDIC-backed corporate notes, 25% in commercial paper, 20% in certificates of deposit). Chandler's portfolio summary is attached.

Vallecitos Water District Consolidated Account

Account #10594

Portfolio Summary

As of July 31, 2022

PORTFOLIO CHARACTERISTICS

Average Modified Duration	0.78
Average Coupon	1.23%
Average Purchase YTM	1.18%
Average Market YTM	2.03%
Average S&P/Moody Rating	AA/Aa1
Average Final Maturity	0.90 yrs
Average Life	0.81 yrs

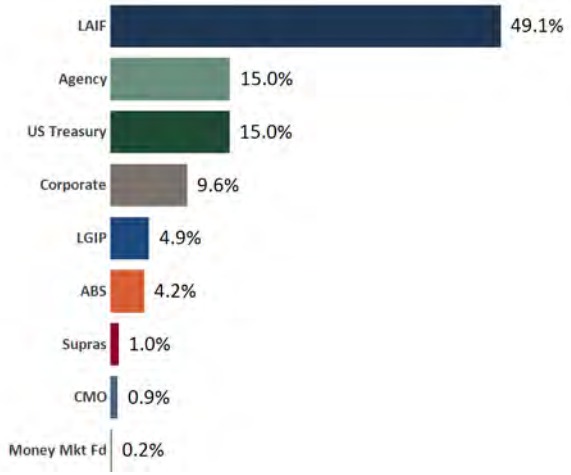
ACCOUNT SUMMARY

	Beg. Values as of 6/30/22	End Values as of 7/31/22
Market Value	113,349,847	111,810,022
Accrued Interest	248,194	213,362
Total Market Value	**113,598,041**	**112,023,384**
Income Earned Cont/WD	93,659	112,561
Par	114,969,324	113,293,484
Book Value	115,054,793	113,345,209
Cost Value	115,208,640	113,525,932

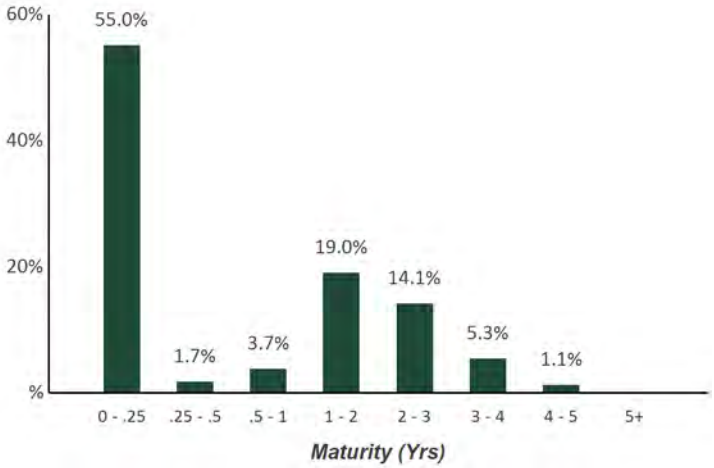
TOP ISSUERS

Local Agency Investment Fund	49.1%
Government of United States	15.0%
Federal Home Loan Mortgage Corp	5.5%
County of San Diego Pooled Inve	4.9%
Federal Farm Credit Bank	4.1%
Federal Home Loan Bank	3.3%
Federal National Mortgage Assoc	3.0%
JP Morgan Chase & Co	0.8%
Total	**85.7%**

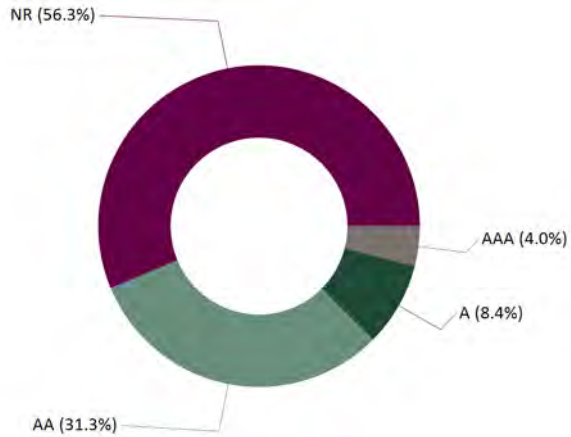
SECTOR ALLOCATION



MATURITY DISTRIBUTION



CREDIT QUALITY (S&P)



CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
ABS									
47789KAC7	John Deere Owner Trust 2020-A A3 1.1% Due 8/15/2024	126,696.65	03/04/2020 1.11%	126,688.90 126,693.08	98.98 3.63%	125,398.39 61.94	0.11% (1,294.69)	Aaa / NR AAA	2.04 0.40
36262XAC8	GM Financial Auto Lease Trust 2021-3 A2 0.39% Due 10/21/2024	360,000.00	08/10/2021 0.39%	359,995.10 359,997.03	96.93 3.53%	348,944.04 42.90	0.31% (11,052.99)	NR / AAA AAA	2.23 0.99
58769KAD6	Mercedes-Benz Auto Lease Trust 2021-B A3 0.4% Due 11/15/2024	255,000.00	06/22/2021 0.40%	254,980.75 254,988.99	97.01 3.54%	247,369.38 45.33	0.22% (7,619.61)	NR / AAA AAA	2.30 0.96
09690AAC7	BMW Vehicle Lease Trust 2021-2 A3 0.33% Due 12/26/2024	160,000.00	09/08/2021 0.34%	159,983.49 159,989.85	97.27 3.53%	155,630.72 8.80	0.14% (4,359.13)	Aaa / NR AAA	2.41 0.86
89236XAC0	Toyota Auto Receivables 2020-D A3 0.35% Due 1/15/2025	165,751.71	10/06/2020 0.36%	165,720.83 165,733.88	98.28 3.65%	162,898.79 25.78	0.15% (2,835.09)	NR / AAA AAA	2.46 0.52
05601XAC3	BMW Vehicle Lease Trust 2022-1 A3 1.1% Due 3/25/2025	170,000.00	01/11/2022 1.11%	169,974.59 169,980.78	97.10 3.53%	165,073.40 31.17	0.15% (4,907.38)	NR / AAA AAA	2.65 1.20
43813GAC5	Honda Auto Receivables Trust 2021-1 A3 0.27% Due 4/21/2025	130,000.00	02/17/2021 0.27%	129,997.62 129,998.73	97.67 3.75%	126,967.75 9.75	0.11% (3,030.98)	Aaa / NR AAA	2.73 0.67
89240BAC2	Toyota Auto Receivables Owners 2021-A A3 0.26% Due 5/15/2025	457,226.63	02/02/2021 0.27%	457,141.77 457,182.21	97.67 3.60%	446,588.34 52.84	0.40% (10,593.87)	Aaa / NR AAA	2.79 0.70
47788UAC6	John Deere Owner Trust 2021-A A3 0.36% Due 9/15/2025	185,000.00	03/02/2021 0.37%	184,964.44 184,978.20	96.44 3.84%	178,421.59 29.60	0.16% (6,556.61)	Aaa / NR AAA	3.13 1.03
44933LAC7	Hyundai Auto Receivables Trust 2021-A A3 0.38% Due 9/15/2025	225,000.00	04/20/2021 0.38%	224,976.33 224,986.11	97.04 3.53%	218,329.43 38.00	0.19% (6,656.68)	NR / AAA AAA	3.13 0.95
43815EAC8	Honda Auto Receivables 2021-3 A3 0.41% Due 11/18/2025	340,000.00	08/17/2021 0.41%	339,995.04 339,996.47	95.93 3.59%	326,166.42 50.34	0.29% (13,830.05)	NR / AAA AAA	3.30 1.29
44934KAC8	Hyundai Auto Receivables Trust 2021-B A3 0.38% Due 1/15/2026	465,000.00	07/20/2021 0.39%	464,897.37 464,930.44	96.12 3.67%	446,947.31 78.53	0.40% (17,983.13)	NR / AAA AAA	3.46 1.19
43815GAC3	Honda Auto Receivables Trust 2021-4 A3 0.88% Due 1/21/2026	175,000.00	11/16/2021 0.89%	174,963.11 174,970.89	95.78 3.60%	167,613.78 42.78	0.15% (7,357.11)	Aaa / NR AAA	3.48 1.57

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ABS									
47789QAC4	John Deere Owner Trust 2021-B A3 0.52% Due 3/16/2026	220,000.00	07/13/2021 0.52%	219,980.38 219,985.91	95.08 3.98%	209,165.22 50.84	0.19% (10,820.69)	Aaa / NR AAA	3.63 1.44
89238JAC9	Toyota Auto Receivables Trust 2021-D A3 0.71% Due 4/15/2026	160,000.00	11/09/2021 0.71%	159,996.59 159,997.33	95.46 3.75%	152,731.52 50.49	0.14% (7,265.81)	NR / AAA AAA	3.71 1.51
05602RAD3	BMW Vehicle Owner Trust 2022-A A3 3.21% Due 8/25/2026	185,000.00	05/10/2022 3.23%	184,990.38 184,991.02	99.73 3.57%	184,508.64 98.98	0.16% (482.38)	Aaa / AAA NR	4.07 0.78
362554AC1	GM Financial Securitized Term 2021-4 A3 0.68% Due 9/16/2026	130,000.00	10/13/2021 0.68%	129,996.69 129,997.45	95.41 3.85%	124,036.25 36.83	0.11% (5,961.20)	Aaa / AAA NR	4.13 1.47
47787JAC2	John Deere Owner Trust 2022-A A3 2.32% Due 9/16/2026	215,000.00	03/10/2022 2.34%	214,952.44 214,957.57	97.60 3.57%	209,835.06 221.69	0.19% (5,122.51)	Aaa / NR AAA	4.13 1.95
380146AC4	GM Financial Auto Receivables 2022-1 A3 1.26% Due 11/16/2026	115,000.00	01/11/2022 1.27%	114,990.01 114,991.61	96.37 4.17%	110,830.33 60.38	0.10% (4,161.28)	NR / AAA AAA	4.30 1.26
362585AC5	GM Financial Securitized ART 2022-2 A3 3.1% Due 2/16/2027	170,000.00	04/05/2022 3.13%	169,964.47 169,967.59	99.27 3.49%	168,759.68 219.58	0.15% (1,207.91)	Aaa / AAA NR	4.55 1.97
02582JJT8	American Express Credit Trust 2022-2 A 3.39% Due 5/17/2027	475,000.00	05/17/2022 3.42%	474,894.93 474,901.60	100.49 3.23%	477,316.10 715.67	0.43% 2,414.50	NR / AAA AAA	4.80 2.62
Total ABS		**4,884,674.99**	**1.06%**	**4,884,045.23** **4,884,216.74**	**3.60%**	**4,753,532.14** **1,972.22**	**4.25%** **(130,684.60)**	**Aaa / AAA** **AAA**	**3.33** **1.27**
AGENCY									
3130AFE78	FHLB Note 3% Due 12/9/2022	1,000,000.00	01/25/2019 2.71%	1,010,700.00 1,000,985.83	100.04 2.86%	1,000,438.00 4,333.33	0.90% (547.83)	Aaa / AA+ AAA	0.36 0.35
3137EAER6	FHLMC Note 0.375% Due 5/5/2023	985,000.00	05/05/2020 0.39%	984,586.30 984,895.16	98.01 3.04%	965,396.53 882.40	0.86% (19,498.63)	Aaa / AA+ AAA	0.76 0.75
3135G04Q3	FNMA Note 0.25% Due 5/22/2023	1,055,000.00	05/20/2020 0.35%	1,051,824.45 1,054,147.39	97.81 3.01%	1,031,942.98 505.52	0.92% (22,204.41)	Aaa / AA+ AAA	0.81 0.80
3135G05G4	FNMA Note 0.25% Due 7/10/2023	875,000.00	07/08/2020 0.32%	873,118.75 874,410.71	97.41 3.06%	852,322.63 127.60	0.76% (22,088.08)	Aaa / AA+ AAA	0.94 0.93
3133EKZK5	FFCB Note 1.6% Due 8/14/2023	1,000,000.00	08/28/2019 1.48%	1,004,700.00 1,001,228.63	98.66 2.93%	986,556.00 7,422.22	0.89% (14,672.63)	Aaa / AA+ AAA	1.04 1.01

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AGENCY									
3137EAEV7	FHLMC Note 0.25% Due 8/24/2023	1,000,000.00	09/24/2020 0.24%	1,000,230.00 1,000,083.95	97.15 2.99%	971,509.00 1,090.28	0.87% (28,574.95)	Aaa / AA+ AAA	1.07 1.05
3130A3DL5	FHLB Note 2.375% Due 9/8/2023	700,000.00	10/09/2019 1.44%	724,864.00 707,012.03	99.32 3.01%	695,221.10 6,603.82	0.63% (11,790.93)	Aaa / AA+ NR	1.11 1.07
3137EAEW5	FHLMC Note 0.25% Due 9/8/2023	660,000.00	09/02/2020 0.26%	659,782.20 659,920.13	97.07 2.97%	640,644.18 655.42	0.57% (19,275.95)	Aaa / AA+ AAA	1.11 1.08
3133EMBS0	FFCB Note 0.2% Due 10/2/2023	1,000,000.00	11/12/2020 0.28%	997,720.00 999,075.44	96.87 2.94%	968,733.00 661.11	0.87% (30,342.44)	Aaa / AA+ AAA	1.17 1.15
3137EAEY1	FHLMC Note 0.125% Due 10/16/2023	825,000.00	10/14/2020 0.25%	821,922.75 823,760.67	96.66 2.96%	797,419.43 300.78	0.71% (26,341.24)	Aaa / AA+ AAA	1.21 1.19
3137EAEZ8	FHLMC Note 0.25% Due 11/6/2023	1,075,000.00	11/03/2020 0.28%	1,074,032.50 1,074,592.17	96.70 2.93%	1,039,493.83 634.55	0.93% (35,098.34)	Aaa / AA+ AAA	1.27 1.24
3137EAFA2	FHLMC Note 0.25% Due 12/4/2023	770,000.00	12/02/2020 0.28%	769,237.70 769,658.88	96.47 2.96%	742,796.67 304.79	0.66% (26,862.21)	Aaa / AA+ AAA	1.35 1.32
3130A3VC5	FHLB Note 2.25% Due 12/8/2023	1,000,000.00	02/13/2020 1.46%	1,029,240.00 1,010,369.39	98.96 3.04%	989,644.00 3,312.50	0.89% (20,725.39)	Aaa / AA+ NR	1.36 1.32
3135G0V34	FNMA Note 2.5% Due 2/5/2024	1,000,000.00	01/30/2020 1.44%	1,041,280.00 1,015,571.51	99.45 2.88%	994,467.00 12,222.22	0.90% (21,104.51)	Aaa / AA+ AAA	1.52 1.45
3133EKMX1	FFCB Note 2.23% Due 2/23/2024	750,000.00	07/30/2019 1.91%	760,425.00 753,568.75	98.87 2.97%	741,554.25 7,340.42	0.67% (12,014.50)	Aaa / AA+ AAA	1.57 1.51
3133EMRZ7	FFCB Note 0.25% Due 2/26/2024	850,000.00	02/22/2021 0.26%	849,694.00 849,839.59	96.07 2.83%	816,590.75 914.93	0.73% (33,248.84)	Aaa / AA+ AAA	1.58 1.54
3130A7PH2	FHLB Note 1.875% Due 3/8/2024	1,000,000.00	03/03/2020 0.85%	1,040,350.00 1,016,112.46	98.29 2.98%	982,866.00 7,447.92	0.88% (33,246.46)	Aaa / AA+ NR	1.61 1.55
3133ENKS8	FFCB Note 1.125% Due 1/6/2025	395,000.00	01/06/2022 1.20%	394,111.25 394,275.80	95.80 2.93%	378,421.85 308.59	0.34% (15,853.95)	Aaa / AA+ AAA	2.44 2.37
3133ENPY0	FFCB Note 1.75% Due 2/25/2025	750,000.00	03/03/2022 1.76%	749,865.00 749,883.60	97.22 2.88%	729,181.50 5,687.50	0.66% (20,702.10)	Aaa / AA+ AAA	2.58 2.47
3135G05X7	FNMA Note 0.375% Due 8/25/2025	500,000.00	12/20/2021 1.06%	487,610.00 489,667.31	92.67 2.89%	463,349.00 812.50	0.41% (26,318.31)	Aaa / AA+ AAA	3.07 3.00
Total Agency		**17,190,000.00**	**0.90%**	**17,325,293.90** **17,229,059.40**	**2.95%**	**16,788,547.70** **61,568.40**	**15.04%** **(440,511.70)**	**Aaa / AA+** **AAA**	**1.30** **1.26**

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CMO									
3137BKRJ1	FHLMC K047 A2 3.329% Due 5/25/2025	500,000.00	05/19/2022 3.05%	502,890.63 502,704.75	100.12 3.22%	500,604.50 1,387.08	0.45% (2,100.25)	NR / NR AAA	2.82 2.55
3137BM7C4	FHLMC K051 A2 3.308% Due 9/25/2025	500,000.00	05/16/2022 2.96%	503,886.72 503,647.24	100.03 3.24%	500,142.50 1,378.33	0.45% (3,504.74)	NR / NR AAA	3.16 2.83
Total CMO		**1,000,000.00**	**3.00%**	**1,006,777.35** **1,006,351.99**	**3.23%**	**1,000,747.00** **2,765.41**	**0.90%** **(5,604.99)**	**NR / NR** **AAA**	**2.99** **2.69**
CORPORATE									
06051GEU9	Bank of America Corp Note 3.3% Due 1/11/2023	400,000.00	09/05/2019 2.13%	414,984.00 402,001.96	100.08 3.12%	400,300.80 733.33	0.36% (1,701.16)	A2 / A- AA-	0.45 0.44
90331HNL3	US Bank NA Callable Note Cont 12/23/2022 2.85% Due 1/23/2023	480,000.00	07/22/2019 2.24%	489,580.80 481,105.48	99.98 2.87%	479,921.28 304.00	0.43% (1,184.20)	A1 / AA- AA-	0.48 0.39
69353RFL7	PNC Bank Callable Note Cont 5/9/2023 3.5% Due 6/8/2023	500,000.00	06/11/2019 2.44%	519,580.00 503,858.33	100.27 3.14%	501,329.00 2,576.39	0.45% (2,529.33)	A2 / A A+	0.85 0.76
69371RQ82	Paccar Financial Corp Note 0.8% Due 6/8/2023	300,000.00	06/01/2020 0.85%	299,583.00 299,881.56	98.02 3.17%	294,051.60 353.33	0.26% (5,829.96)	A1 / A+ NR	0.85 0.84
931142EK5	Wal-Mart Stores Callable Note Cont 5/26/2023 3.4% Due 6/26/2023	500,000.00	05/21/2019 2.65%	514,115.00 502,873.14	100.25 3.08%	501,243.00 1,652.78	0.45% (1,630.14)	Aa2 / AA AA	0.90 0.80
808513BN4	Charles Schwab Corp Callable Note Cont 2/18/2024 0.75% Due 3/18/2024	600,000.00	Various 0.70%	600,858.00 600,455.79	96.29 3.10%	577,735.20 1,662.50	0.52% (22,720.59)	A2 / A A	1.63 1.59
023135BW5	Amazon.com Inc Note 0.45% Due 5/12/2024	420,000.00	05/10/2021 0.50%	419,386.80 419,636.33	95.80 2.89%	402,339.00 414.75	0.36% (17,297.33)	A1 / AA AA-	1.78 1.75
91324PEB4	United Health Group Inc Callable Note Cont 5/15/2022 0.55% Due 5/15/2024	230,000.00	11/08/2021 0.78%	228,679.80 229,059.88	95.54 3.13%	219,748.21 267.06	0.20% (9,311.67)	A3 / A+ A	1.79 1.75
14913R2L0	Caterpillar Financial Service Note 0.45% Due 5/17/2024	665,000.00	05/10/2021 0.50%	664,108.90 664,467.45	95.49 3.05%	635,033.77 615.13	0.57% (29,433.68)	A2 / A A	1.80 1.76
24422EVQ9	John Deere Capital Corp Note 0.45% Due 6/7/2024	395,000.00	06/07/2021 0.49%	394,506.25 394,694.62	95.37 3.04%	376,705.18 266.63	0.34% (17,989.44)	A2 / A A	1.85 1.82
89114QCA4	Toronto Dominion Bank Note 2.65% Due 6/12/2024	500,000.00	08/25/2021 0.61%	528,130.00 518,780.91	98.43 3.52%	492,167.00 1,803.47	0.44% (26,613.91)	A1 / A AA-	1.87 1.79

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CORPORATE									
89236TJH9	Toyota Motor Credit Corp Note 0.5% Due 6/18/2024	400,000.00	06/15/2021 0.54%	399,524.00 399,701.63	94.98 3.27%	379,934.80 238.89	0.34% (19,766.83)	A1 / A+ A+	1.88 1.84
06367TQW3	Bank of Montreal Note 0.625% Due 7/9/2024	500,000.00	12/15/2021 1.21%	492,645.00 494,430.65	94.69 3.48%	473,433.00 190.97	0.42% (20,997.65)	A2 / A- AA-	1.94 1.90
79466LAG9	Salesforce.com Inc Callable Note Cont 7/15/2022 0.625% Due 7/15/2024	105,000.00	06/29/2021 0.64%	104,946.45 104,965.21	95.58 2.97%	100,360.47 29.17	0.09% (4,604.74)	A2 / A+ NR	1.96 1.92
69371RR40	Paccar Financial Corp Note 0.5% Due 8/9/2024	255,000.00	08/03/2021 0.52%	254,862.30 254,907.15	94.75 3.20%	241,605.11 609.17	0.22% (13,302.04)	A1 / A+ NR	2.03 1.98
78015K7C2	Royal Bank of Canada Note 2.25% Due 11/1/2024	500,000.00	05/19/2021 0.74%	525,645.00 516,750.66	97.49 3.42%	487,444.00 2,812.50	0.44% (29,306.66)	A1 / A AA-	2.26 2.16
89236TJT3	Toyota Motor Credit Corp Note 1.45% Due 1/13/2025	275,000.00	01/10/2022 1.50%	274,631.50 274,698.74	95.72 3.28%	263,239.90 199.38	0.24% (11,458.84)	A1 / A+ A+	2.46 2.37
46647PBY1	JP Morgan Chase & Co Callable Note Cont 2/16/2024 0.563% Due 2/16/2025	365,000.00	02/09/2021 0.56%	365,000.00 365,000.00	94.71 3.29%	345,689.31 941.85	0.31% (19,310.69)	A2 / A- AA-	2.55 2.48
57636QAN4	MasterCard Inc Callable Note 1x 02/03/2025 2% Due 3/3/2025	600,000.00	10/28/2021 1.04%	618,294.00 614,097.14	97.54 2.99%	585,231.60 4,933.33	0.53% (28,865.54)	A1 / A+ NR	2.59 2.48
24422EWB1	John Deere Capital Corp Note 2.125% Due 3/7/2025	215,000.00	03/02/2022 2.14%	214,907.55 214,919.95	97.39 3.18%	209,387.64 1,827.50	0.19% (5,532.31)	A2 / A A	2.60 2.48
87612EBL9	Target Corp Callable Note Cont 4/15/25 2.25% Due 4/15/2025	500,000.00	03/15/2022 2.53%	495,935.00 496,430.03	97.87 3.08%	489,355.50 3,312.50	0.44% (7,074.53)	A2 / A A	2.71 2.58
06406RBC0	Bank of NY Mellon Corp Callable Note Cont 3/25/2025 3.35% Due 4/25/2025	475,000.00	04/19/2022 3.35%	474,933.50 474,939.39	99.74 3.45%	473,764.05 4,199.13	0.43% (1,175.34)	A1 / A AA-	2.74 2.50
46647PCH7	JP Morgan Chase & Co Callable Note Cont 6/1/2024 0.824% Due 6/1/2025	555,000.00	05/24/2021 0.78%	555,720.85 555,440.67	94.03 3.48%	521,877.05 762.20	0.47% (33,563.62)	A2 / A- AA-	2.84 2.75
438516CB0	Honeywell Intl Callable Note Cont 5/1/2025 1.35% Due 6/1/2025	500,000.00	03/09/2022 2.31%	485,140.00 486,943.89	95.48 3.02%	477,422.00 1,125.00	0.43% (9,521.89)	A2 / A A	2.84 2.74
63743HFE7	National Rural Utilities Note 3.45% Due 6/15/2025	160,000.00	04/27/2022 3.46%	159,956.80 159,960.18	100.10 3.41%	160,164.48 1,334.00	0.14% 204.30	A2 / A- A	2.88 2.69

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CORPORATE									
26442UAA2	Duke Energy Progress LLC Callable Note Cont 5/15/25 3.25% Due 8/15/2025	500,000.00	04/18/2022 3.21%	500,605.00 500,549.41	100.39 3.10%	501,948.50 7,493.06	0.45% 1,399.09	Aa3 / A NR	3.04 2.61
857477BR3	State Street Bank Callable Note Cont 2/6/2025 1.746% Due 2/6/2026	175,000.00	02/02/2022 1.75%	175,000.00 175,000.00	95.35 3.59%	166,863.03 1,476.83	0.15% (8,136.97)	A1 / A AA-	3.52 3.33
Total Corporate		**11,070,000.00**	**1.48%**	**11,171,259.50** **11,105,550.15**	**3.19%**	**10,758,294.48** **42,134.85**	**9.64%** **(347,255.67)**	**A1 / A** **A+**	**1.99** **1.89**
LAIF									
90LAIF$00	Local Agency Investment Fund State Pool	54,946,238.51	Various 1.14%	54,946,238.51 54,946,238.51	1.00 1.14%	54,946,238.51 51,787.01	49.10% 0.00	NR / NR NR	0.00 0.00
Total LAIF		**54,946,238.51**	**1.14%**	**54,946,238.51** **54,946,238.51**	**1.14%**	**54,946,238.51** **51,787.01**	**49.10%** **0.00**	**NR / NR** **NR**	**0.00** **0.00**
LOCAL GOV INVESTMENT POOL									
90SDCP$00	County of San Diego Pooled Investment Pool	5,437,000.00	Various 1.56%	5,437,000.00 5,437,000.00	1.00 1.56%	5,437,000.00 0.00	4.85% 0.00	NR / NR AAA	0.00 0.00
Total Local Gov Investment Pool		**5,437,000.00**	**1.56%**	**5,437,000.00** **5,437,000.00**	**1.56%**	**5,437,000.00** **0.00**	**4.85%** **0.00**	**NR / NR** **AAA**	**0.00** **0.00**
MONEY MARKET FUND									
261908206	Dreyfus Treasury Money Market Fund	215,570.74	Various 1.62%	215,570.74 215,570.74	1.00 1.62%	215,570.74 0.00	0.19% 0.00	Aaa / AAA NR	0.00 0.00
Total Money Market Fund		**215,570.74**	**1.62%**	**215,570.74** **215,570.74**	**1.62%**	**215,570.74** **0.00**	**0.19%** **0.00**	**Aaa / AAA** **NR**	**0.00** **0.00**
SUPRANATIONAL									
459058JM6	Intl. Bank Recon & Development Note 0.25% Due 11/24/2023	395,000.00	11/17/2020 0.32%	394,150.75 394,627.73	96.57 2.93%	381,457.43 183.78	0.34% (13,170.30)	Aaa / AAA AAA	1.32 1.29

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SUPRANATIONAL									
4581X0DZ8	Inter-American Dev Bank Note 0.5% Due 9/23/2024	830,000.00	09/15/2021 0.52%	829,385.80 829,560.65	94.84 3.00%	787,138.80 1,475.56	0.70% (42,421.85)	Aaa / AAA NR	2.15 2.10
Total Supranational		**1,225,000.00**	**0.46%**	**1,223,536.55** **1,224,188.38**	**2.98%**	**1,168,596.23** **1,659.34**	**1.04%** **(55,592.15)**	**Aaa / AAA** **AAA**	**1.88** **1.84**
US TREASURY									
9128282W9	US Treasury Note 1.875% Due 9/30/2022	1,000,000.00	03/19/2019 2.43%	981,406.25 999,135.17	99.94 2.21%	999,417.00 6,301.23	0.90% 281.83	Aaa / AA+ AAA	0.17 0.17
912828T91	US Treasury Note 1.625% Due 10/31/2023	1,000,000.00	09/25/2019 1.60%	1,000,898.44 1,000,273.86	98.39 2.94%	983,945.00 4,106.66	0.88% (16,328.86)	Aaa / AA+ AAA	1.25 1.22
91282CBE0	US Treasury Note 0.125% Due 1/15/2024	1,000,000.00	01/12/2021 0.24%	996,445.31 998,272.97	95.97 2.97%	959,727.00 57.74	0.86% (38,545.97)	Aaa / AA+ AAA	1.46 1.43
912828V80	US Treasury Note 2.25% Due 1/31/2024	1,000,000.00	12/16/2019 1.71%	1,021,210.94 1,007,718.19	98.95 2.97%	989,453.00 61.14	0.88% (18,265.19)	Aaa / AA+ AAA	1.50 1.46
912828X70	US Treasury Note 2% Due 4/30/2024	1,000,000.00	03/03/2020 0.71%	1,052,539.06 1,022,081.63	98.40 2.94%	984,023.00 5,054.35	0.88% (38,058.63)	Aaa / AA+ AAA	1.75 1.70
91282CCC3	US Treasury Note 0.25% Due 5/15/2024	1,000,000.00	05/12/2021 0.36%	996,875.00 998,134.71	95.36 2.93%	953,555.00 529.89	0.85% (44,579.71)	Aaa / AA+ AAA	1.79 1.76
91282CCG4	US Treasury Note 0.25% Due 6/15/2024	1,000,000.00	06/10/2021 0.33%	997,695.31 998,561.67	95.16 2.92%	951,602.00 321.04	0.85% (46,959.67)	Aaa / AA+ AAA	1.88 1.84
91282CCX7	US Treasury Note 0.375% Due 9/15/2024	1,000,000.00	09/10/2021 0.44%	997,929.69 998,534.16	94.82 2.91%	948,203.00 1,416.44	0.85% (50,331.16)	Aaa / AA+ AAA	2.13 2.08
912828YM6	US Treasury Note 1.5% Due 10/31/2024	1,000,000.00	08/06/2021 0.45%	1,033,554.69 1,023,394.36	97.03 2.87%	970,273.00 3,790.76	0.87% (53,121.36)	Aaa / AA+ AAA	2.25 2.18
91282CDH1	US Treasury Note 0.75% Due 11/15/2024	1,000,000.00	11/29/2021 0.81%	998,164.06 998,578.46	95.28 2.89%	952,812.00 1,589.67	0.85% (45,766.46)	Aaa / AA+ AAA	2.30 2.24
91282CDN8	US Treasury Note 1% Due 12/15/2024	500,000.00	03/15/2022 2.03%	486,347.66 488,222.31	95.73 2.87%	478,672.00 642.08	0.43% (9,550.31)	Aaa / AA+ AAA	2.38 2.32
912828ZC7	US Treasury Note 1.125% Due 2/28/2025	1,250,000.00	02/09/2022 1.59%	1,232,666.02 1,235,342.36	95.71 2.86%	1,196,435.00 5,884.85	1.07% (38,907.36)	Aaa / AA+ AAA	2.58 2.51

Holdings Report

As of July 31, 2022

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
US TREASURY									
912828ZF0	US Treasury Note 0.5% Due 3/31/2025	1,000,000.00	03/03/2021 0.54%	998,515.63 999,029.37	93.97 2.86%	939,727.00 1,680.33	0.84% (59,302.37)	Aaa / AA+ AAA	2.67 2.61
912828ZL7	US Treasury Note 0.375% Due 4/30/2025	950,000.00	04/12/2021 0.66%	939,238.28 942,696.88	93.46 2.86%	887,915.60 900.31	0.79% (54,781.28)	Aaa / AA+ AAA	2.75 2.70
912828ZT0	US Treasury Note 0.25% Due 5/31/2025	1,000,000.00	10/14/2021 0.78%	980,976.56 985,143.33	92.96 2.86%	929,570.00 423.50	0.83% (55,573.33)	Aaa / AA+ AAA	2.84 2.78
9128285C0	US Treasury Note 3% Due 9/30/2025	650,000.00	04/29/2022 2.90%	652,005.86 651,859.48	100.55 2.81%	653,605.55 6,553.28	0.59% 1,746.07	Aaa / AA+ AAA	3.17 2.97
9128285J5	US Treasury Note 3% Due 10/31/2025	975,000.00	06/02/2022 2.87%	978,999.02 978,809.66	100.54 2.82%	980,294.25 7,391.98	0.88% 1,484.59	Aaa / AA+ AAA	3.25 3.06
912828M56	US Treasury Note 2.25% Due 11/15/2025	1,000,000.00	07/08/2022 3.18%	970,742.19 971,244.57	98.23 2.82%	982,266.00 4,769.02	0.88% 11,021.43	Aaa / AA+ AAA	3.30 3.13
Total US Treasury		**17,325,000.00**	**1.26%**	**17,316,209.97** **17,297,033.14**	**2.85%**	**16,741,495.40** **51,474.27**	**14.99%** **(555,537.74)**	**Aaa / AA+** **AAA**	**2.16** **2.10**
TOTAL PORTFOLIO		**113,293,484.24**	**1.18%**	**113,525,931.75** **113,345,209.05**	**2.03%**	**111,810,022.20** **213,361.50**	**100.00%** **(1,535,186.85)**	**Aa1 / AA** **AAA**	**0.90** **0.78**
TOTAL MARKET VALUE PLUS ACCRUED						**112,023,383.70**			

VALLECITOS WATER DISTRICT
SUMMARY OF LEGAL FEES

Matter Description	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Total
General Counsel Services	$ 16,885	$ 6,265	$ 5,404	$ 9,160	$ 14,725	$ 10,616	$ 8,361	$ 17,888	$ 3,317	$ 5,420	$ 22,505	$ 9,905	$ 7,227	$ 137,677
Labor/Employment	1,627	1,075	368	461	890	1,965	860	1,934	829	1,013	184	1,658	1,044	13,907
Engineering - Construction/Contracting	2,640	2,640	990	2,915	3,025	2,915	3,548	3,316	2,303	2,533	4,298	4,810	2,088	38,019
Fees and Taxes	645	-	-	461	-	-	154	-	-	-	276	3,776	2,198	7,509
Environmental	-	-	-	-	-	-	-	-	-	1,689	-	215	-	1,903
Adv. Butler	1,458	1,267	3,489	2,947	-	550	1,100	1,089	1,013	1,965	4,115	4,225	1,488	24,705
Renewable Energy	276	-	-	215	-	-	110	399	-	307	92	-	-	1,399
Litigation	-	3,745	3,469	3,991	4,329	368	1,228	1,259	1,842	4,166	2,456	450	92	27,395
Driscoll & Omens Prop 218 Sole	163	3,935	333	324	2,945	647	1,074	795	246	43	-	-	-	10,504
Driscoll & Omens Prop 218 Shared	281	229	151	85	95	23	602	240	223	170	-	34	-	2,133
Driscoll & Omens Prop 218 PRA Requests	767	252	545	835	290	1,028	186	17	104	-	-	-	-	4,023
Total	**$ 24,742**	**$ 19,407**	**$ 14,751**	**$ 21,392**	**$ 26,299**	**$ 18,112**	**$ 17,221**	**$ 26,936**	**$ 9,876**	**$ 17,305**	**$ 33,927**	**$ 25,072**	**$ 14,136**	**$ 269,174**

DATE: **SEPTEMBER 7, 2022**
TO: **BOARD OF DIRECTORS**
SUBJECT: **FINAL ACCEPTANCE OF WATER AND SEWER IMPROVEMENTS FOR VILLA SERENA PHASE 1 IMPROVEMENTS (VS PHASE 1 LP)**

BACKGROUND:

VS Phase 1 LP (National Core), owner of the project, has completed the plan check process with the District. The project is a re-development of an existing multi-family residential site located on Richland Road, between Marcos Street and Liberty Drive.

DISCUSSION:

Water and/or sewer facilities for private land development projects are constructed by the developer. When completed to the satisfaction of the District, those facilities are accepted by the Board of Directors and become District property.

The project constructed approximately 640 feet of 10-inch Polyvinyl Chloride (PVC) offsite sewer main along with sewer laterals, manholes, water services and assorted appurtenances.

The local fire agency has reviewed and approved the Improvement Plan and has required the installation of (one or more) fire hydrants for this project. Vallecitos Water District does not maintain, repair, or replace fire hydrants unless specified in a separate agreement.

Upon final acceptance of the re-developed site, water and sewer service will be available to 85 multi-family townhomes.

The owner has provided the District with the one-year warranty bond. All current fees and charges have been paid to date.

Water and Wastewater capital facility fees were paid originally back in 1977 when the site was first developed. No additional capacity fees were collected at this time.

FISCAL IMPACT:

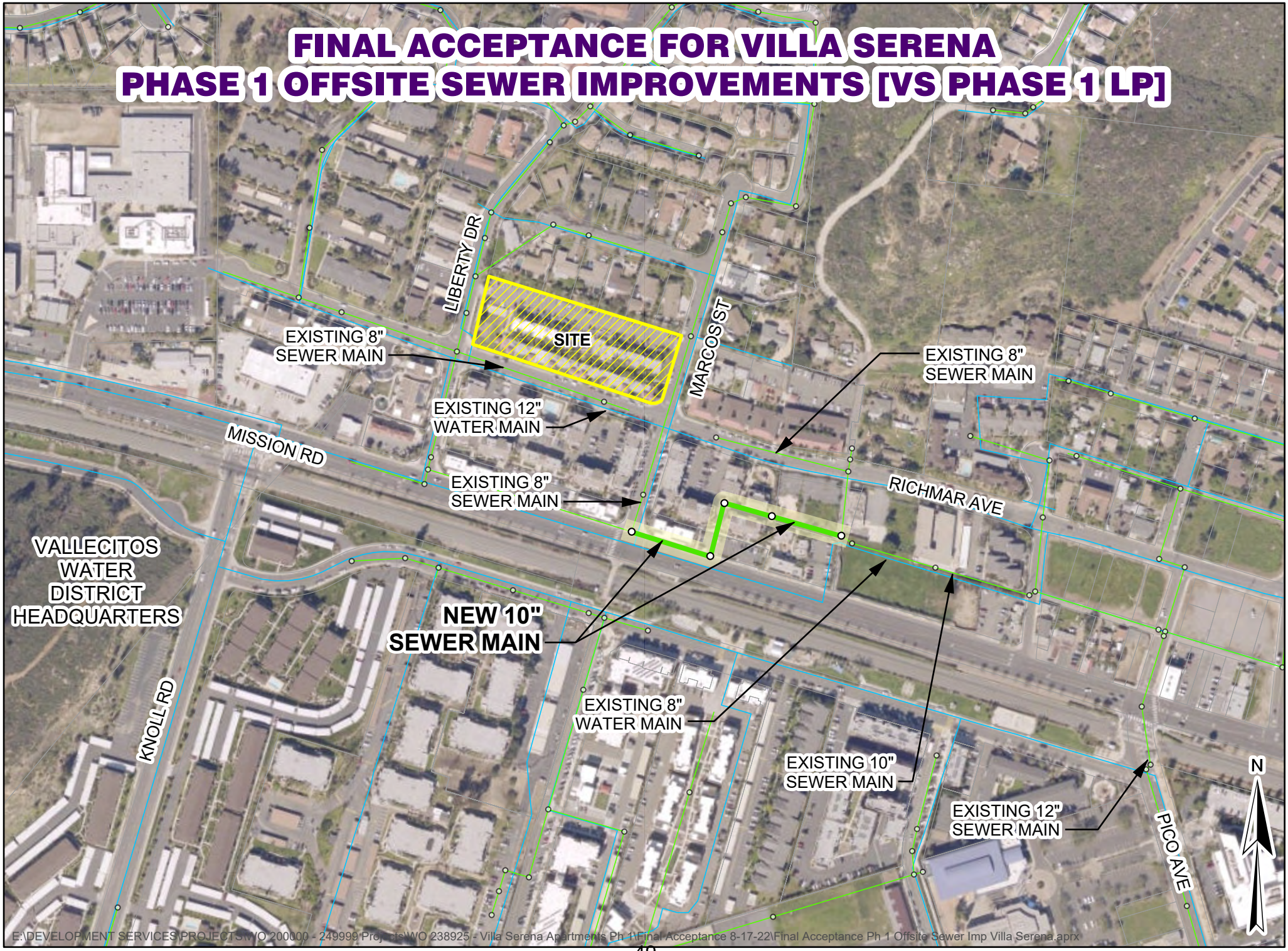
None. Future water and sewer revenues will offset costs of service.

RECOMMENDATION:

Accept the project water and sewer improvements for Villa Serena Phase 1.

ATTACHMENTS:

1 Map Exhibit – 1 Aerial Map


FINAL ACCEPTANCE FOR VILLA SERENA
PHASE 1 OFFSITE SEWER IMPROVEMENTS [VS PHASE 1 LP]
LIBERTY DR
SITE
MARCOS ST
EXISTING 8" SEWER MAIN
EXISTING 8" SEWER MAIN
EXISTING 12" WATER MAIN
MISSION RD
EXISTING 8" SEWER MAIN
RICHMAR AVE
VALLECITOS WATER DISTRICT HEADQUARTERS
NEW 10" SEWER MAIN
KNOLL RD
EXISTING 8" WATER MAIN
EXISTING 10" SEWER MAIN
EXISTING 12" SEWER MAIN
PICO AVE
N
E:\DEVELOPMENT SERVICES\PROJECTS\WO 200000 - 249999 Projects\WO 238925 - Villa Serena Apartments Ph 1\Final Acceptance 8-17-22\Final Acceptance Ph 1 Offsite Sewer Imp Villa Serena.aprx

DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: APPROVAL OF AS-NEEDED INFORMATION TECHNOLOGY PROFESSIONAL SERVICES AGREEMENT WITH OSTARI

BACKGROUND:

Vallecitos Water District (District) routinely requires application development, programming, and technical administrative support services to support District Information Technology (IT) systems and projects.

Based on experience, it is often in the best interest of the District to negotiate standard fees for these types of services. Staff negotiates reduced rates with qualified information technology consulting firms which have submitted resumes, provided statements of qualifications and/or proposals, and have successfully completed projects for the District.

DISCUSSION:

The District has contracted with Ostari, a consulting firm that provides IT support in the areas of infrastructure monitoring, help desk and network support since 2009. In Fiscal Year (FY) 2022/2023 the Information Technology Department assumed responsibility of the District-wide SCADA Upgrade Project. As a result, IT requires additional support from Ostari due to increased workloads associated with managing Operational Technology/SCADA systems.

Staff has selected Ostari for as-needed IT professional services. Ostari is familiar to the District and has experience with the District's projects and standards. Through their experience working with the District, Ostari is knowledgeable of the District's IT infrastructure and more importantly, the needs of the "customer" departments that IT supports. Ostari specializes in information technology support services and the District intends to utilize Ostari on upcoming requests for professional services as part of its SCADA Capital Improvement Program as well as general IT support.

FISCAL IMPACT:

The IT Department budgeted $60,000 in FY 2022/2023 for technical support consulting services. There are no additional costs associated with the staff recommendation as the total cost of as-needed IT services provided by Ostari shall remain below the approved budget. The use of IT consultant support is anticipated for multiple years. The as-needed contract is for 2 years with an option for two 1-year extensions at the District's discretion. Year 1 costs were included in the FY 2022/2023 IT Division budget. Costs for subsequent years will be included in future operating budgets. As-needed agreements are utilized for contracts in accordance with the District's purchasing policy.

RECOMMENDATION:

Authorize the General Manager to enter into a 2-year as-needed IT professional services agreement with Ostari with the option to extend the agreement for two additional 1-year terms.

DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: APPROVAL OF AS-NEEDED CONSULTANT PROFESSIONAL SERVICES AGREEMENT WITH QUARTIC

BACKGROUND:

Vallecitos Water District (District) currently maintains an Enterprise Geographic Information System (GIS) used for mapping, asset maintenance, and analyzing the District's location-based information. The District routinely requires additional application development, programming, and technical administrative support services to support GIS and associated applications. The level of effort and associated costs of these services does not require the formal Request For Proposals selection process.

Based on experience, it is often in the best interest of the District to negotiate standard fees for these types of services. Staff negotiates reduced rates with qualified consulting firms which have submitted resumes, provided statements of qualifications and/or proposals, and have successfully completed projects for the District.

DISCUSSION:

The District has contracted with Quartic, a consulting firm providing GIS support in the areas of spatial data analysis, mapping, and visualization since 2020. In 2021 Quartic evaluated the District's Enterprise GIS systems. The assessment included review of the District's current GIS Implementation within the context of current best practices and industry trends. Recommendations were provided in efforts to enable the District to better prioritize, plan and take advantage of GIS technology going forward. As a result, the Engineering Department requires additional support from Quartic to assist with implementation of recommendations to make the system more current and resilient.

FISCAL IMPACT:

The Asset Management Division budgeted $50,000 in Fiscal Year (FY) 2022/2023 for GIS technical support consulting services. There are no additional costs associated with the staff recommendation as the total cost of as-needed GIS services required of Quartic shall remain below the approved budget. The use of GIS consultant support is anticipated for multiple years. The as-needed contract is for 1-year with an option for two 1-year extensions at the District's discretion. Year 1 costs were included in the FY 2022/2023 Asset Management Division budget. Costs for subsequent years will be included in future department operating budgets. As-needed agreements are utilized for contracts in accordance with the District's purchasing policy.

RECOMMENDATION:

Authorize the General Manager to enter into a 1-year as-needed consultant professional services agreement with Quartic with the option to extend the agreement for two additional 1-year terms.

DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: AWARD OF CONSTRUCTION CONTRACT FOR THE FISCAL YEAR 2022/2023 VAULT NET FALL PROTECTION INSTALLATION PROJECT

BACKGROUND:

The District owns and operates equipment in several underground vaults. These vaults have access hatches and climbing systems that require upgrading to comply with the current California Occupational Safety and Health Administration (Cal OSHA) regulations and improve staff safety while performing maintenance. Fall protection nets will be installed on the access hatches listed below. This will allow staff to safely access the underground vaults while making system adjustments or performing maintenance operations.

The 18 hatch locations listed below shall receive a net system to provide fall protection for workers when near the open hatch:

Coronado Hills Tank Control Valve Vault
Double Peak Pump Station Valve Vaults (2 Hatches)
Double Peak Tank Control Valve Vault
Mountain Belle Blow-off Valve Vault
Mountain Belle Tank Control Valve Vault
North Twin Oaks Pump Station Valve Vault
North Twin Oaks Tank #1 Control Valve Vault
North Twin Oaks Tank #2 Control Valve Vaults (2 Hatches)
Palomar Tank Control Valve Vault
Palos Vista Pump Station Meter Vault
Palos Vista Tank Control Valve Vault
Richland Tank #2 Control Valve Vault
Sage Canyon Tank Control Valve Vault
Schoolhouse Pump Station Valve Vaults (3 Hatches)
Schoolhouse Tank Control Valve Vaults (2 Hatches)
South Lake Pump Station Valve Vault
Via Vera Cruz Tank Control Valve Vault
Wulff Pump Station Valve Vault

DISCUSSION:

District staff went through a similar review process of Cal OSHA approved fall protection safety systems prior to upgrading the climbing systems on the steel drinking water tanks a couple of years ago. The safety systems manufactured and installed by Versatile Systems, Inc. were chosen by staff to be the standard for all climbing and fall protection equipment for District facilities. This fall protection system will be used on all District

vaults. Sole sourcing this system is done for safety reasons as well as simplifying operation and maintenance for staff. Benefits of this include:

- Staff only needs training on one fall protection system.
- Only one type of harness is required for all applicable facilities.
- Only one type of safety net is required for all applicable facilities.
- Simplifies stocking, repair, and maintenance of fall protection systems and safety nets.

Since this is a sole source project, only one bid was received on July 11, 2022.

Fiscal Year (FY) 2022/2023 Vault Net Fall Protection Installation Project

Sole Source Provider	
Versatile Systems, Inc.	$127,282.93

Inspection and construction management will be performed by District staff.

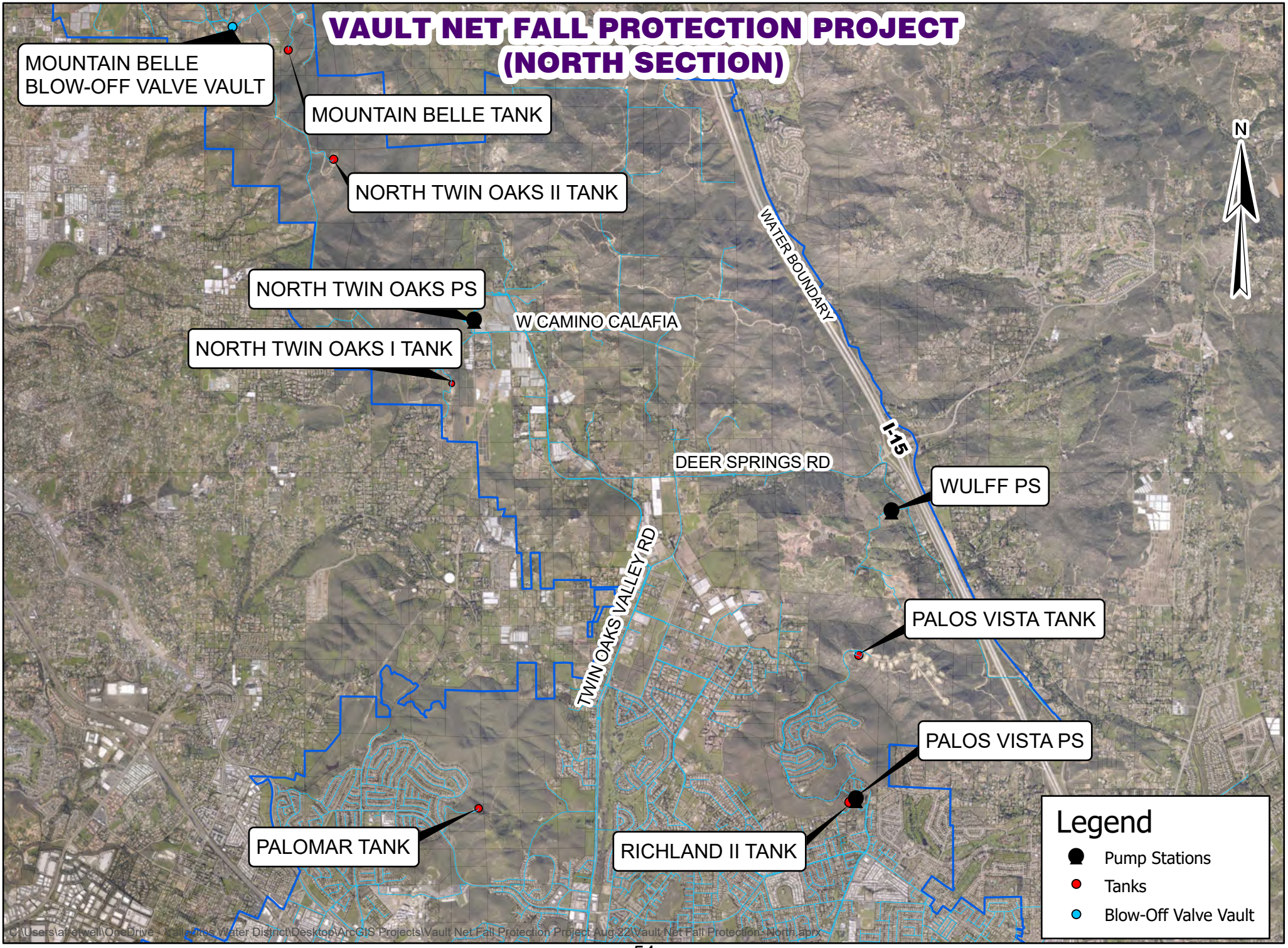
FISCAL IMPACT:
Funds were included in the FY 2022/2023 Materials & Services and Capital budgets for the purchase and installation of the safety equipment. The budget and estimated cost summary are as follows:

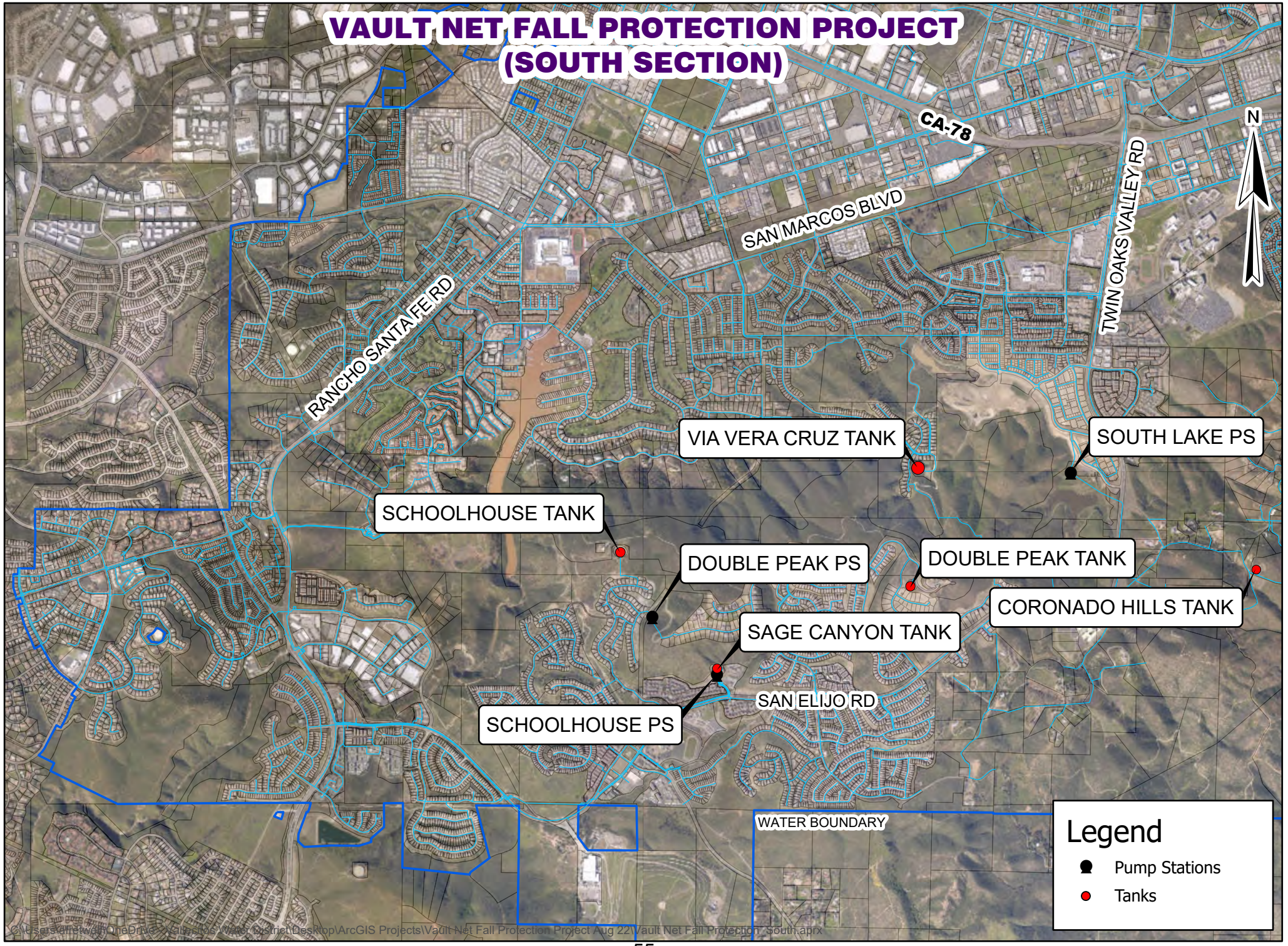
2022/2023 Budget	$	146,500.00
Staff Time	$	1,029.00
Overhead	$	2,171.00
Versatile Systems, Inc.	$	127,282.93
Total	**$**	**130,482.93**
Projected Budget Surplus	**$**	**16,017.07**

Staff time and overhead are included in the above project estimate.

RECOMMENDATION:
Authorize the General Manager to execute a contract with Versatile Systems, Inc. for a total of $127,282.93, subject to provisions of the contract.

ATTACHMENT(S):
Map Exhibit – 1 Aerial Map – North
Map Exhibit – 2 Aerial Map – South


VAULT NET FALL PROTECTION PROJECT
(NORTH SECTION)
MOUNTAIN BELLE
BLOW-OFF VALVE VAULT
MOUNTAIN BELLE TANK
NORTH TWIN OAKS II TANK
NORTH TWIN OAKS PS
NORTH TWIN OAKS I TANK
W CAMINO CALAFIA
WATER BOUNDARY
I-15
DEER SPRINGS RD
WULFF PS
TWIN OAKS VALLEY RD
PALOS VISTA TANK
PALOS VISTA PS
PALOMAR TANK
RICHLAND II TANK
N
Legend
Pump Stations
Tanks
Blow-Off Valve Vault
C:\Users\afretwell\OneDrive - Vallecitos Water District\Desktop\ArcGIS Projects\Vault Net Fall Protection Project Aug 22\Vault Net Fall Protection - North.aprx


VAULT NET FALL PROTECTION PROJECT
(SOUTH SECTION)
CA-78
SAN MARCOS BLVD
TWIN OAKS VALLEY RD
RANCHO SANTA FE RD
N
VIA VERA CRUZ TANK
SOUTH LAKE PS
SCHOOLHOUSE TANK
DOUBLE PEAK PS
DOUBLE PEAK TANK
CORONADO HILLS TANK
SAGE CANYON TANK
SAN ELIJO RD
SCHOOLHOUSE PS
WATER BOUNDARY
Legend
Pump Stations
Tanks
C:\Users\anewell\OneDrive - Olivenhain Water District\Desktop\ArcGIS Projects\Vault Net Fall Protection Project Aug 22\Vault Net Fall Protection South.aprx

DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: JOB CLASSIFICATION RETITLE AND PAY ADJUSTMENT FOR FINANCE SUPERVISOR

BACKGROUND:

Job classification retitles and revisions to the District's Salary Schedule require Board approval.

DISCUSSION:

The position retitle for Accounting Supervisor is requested in preparation for a recruitment to fill the current vacancy. As stated in the current job description, the Accounting Supervisor "is the first line supervisory level in accounting, finance, and related functions" and is "responsible for dealing with difficult accounting and finance issues." The position assists in the preparation of the annual operating and capital budgets and assists in the administration of investing surplus funds. Other finance responsibilities include assisting in the pursuit of debt financing and assisting with rate structure and prop 218 notices. Approximately half of the responsibilities of the Accounting Supervisor position are related to Finance. The title Finance Supervisor encompasses both the Finance and Accounting areas of expertise. Retitling this job classification to Finance Supervisor will match industry norms and more accurately reflect the duties being performed by employees in this position. Retitling the position will also attract job candidates whose skill sets are more in line with the District's needs

FISCAL IMPACT:

None. The pay range for the Finance Supervisor will be the same as that for the current Accounting Supervisor position.

RECOMMENDATIONS:

1) Approve retitle of job classification of Accounting Supervisor to Finance Supervisor; and
2) Adopt the resolution to approve the annual pay schedule with the retitle.

ATTACHMENTS:

Resolution Adopting District Pay Schedule with Exhibit "A", Vallecitos Water District Personnel Classification and Annual Pay Schedule

RESOLUTION NO.

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE VALLECITOS WATER DISTRICT
ADOPTING THE ANNUAL PAY SCHEDULE WITH THE JOB
CLASSIFICATION RETITLE FOR ACCOUNTING SUPERVISOR**

WHEREAS, to comply with CalPERS regulations, the Board is required to publicly approve a District pay schedule, and the District Pay Schedule has been amended;

WHEREAS, the Board of Directors approved authorized positions and position changes in the budget for Fiscal Year 2022/23;

WHEREAS, the Board of Directors desires to approve the job classification retitle for Accounting Supervisor to Finance Supervisor; and,

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Vallecitos Water District as follows:

DISTRICT PAY SCHEDULE. The Board of Directors does hereby approve and adopt the Vallecitos Water District Personnel Classification and Annual Pay Schedule, attached hereto as Exhibit "A".

PASSED, APPROVED AND ADOPTED by the Board of Directors of the Vallecitos Water District at a regular meeting held on the 7th day of September, 2022, by the following roll call vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

Craig Elitharp, President
Board of Directors
Vallecitos Water District

ATTEST:

Glenn Pruim, Secretary
Board of Directors
Vallecitos Water District

VALLECITOS WATER DISTRICT PERSONNEL CLASSIFICATION ANNUAL PAY SCHEDULE

has been duly approved and adopted by Vallecitos Water District Board in accordance with requirements of applicable public meeting laws.

Effective 9/7/2022 - Exhibit "A"

POSITION/TITLE	EXPERIENCE STEPS							LONGEVITY	
	A	B	C	D	E	F	G	H	I
Accounting Technician	61,875	64,969	68,217	71,627	75,209	78,970	82,918	87,063	91,417
Administrative Services Manager	152,585	160,215	168,226	176,636	185,469	194,742	204,479	214,703	225,438
Asset Management Supervisor	103,276	108,440	113,862	119,555	125,533	131,809	138,399	145,320	152,585
Assistant General Manager	176,636	185,469	194,742	204,479	214,703	225,438	236,710	248,546	260,973
Building and Grounds Worker	42,913	45,059	47,312	49,678	52,162	54,770	57,508	60,382	63,402
Capital Facilities Assistant Engineer	78,970	82,918	87,063	91,417	95,987	100,787	105,826	111,118	116,674
Capital Facilities Engineer	98,358	103,276	108,440	113,862	119,555	125,533	131,809	138,399	145,320
Capital Facilities Senior Engineer	113,862	119,555	125,533	131,809	138,399	145,320	152,585	160,215	168,226
Cashier / Receptionist	49,678	52,162	54,770	57,508	60,382	63,402	66,572	69,901	73,396
Chief Financial Officer	152,585	160,215	168,226	176,636	185,469	194,742	204,479	214,703	225,438
Chief Technology Officer	125,533	131,809	138,399	145,320	152,585	160,215	168,226	176,636	185,469
CMMS Planner	73,396	77,066	80,919	84,965	89,214	93,674	98,358	103,276	108,440
Construction Inspection Supervisor	87,063	91,417	95,987	100,787	105,826	111,118	116,674	122,507	128,632
Construction Inspector I	64,969	68,217	71,627	75,209	78,970	82,918	87,063	91,417	95,987
Construction Inspector II	75,209	78,970	82,918	87,063	91,417	95,987	100,787	105,826	111,118
Construction Supervisor	87,063	91,417	95,987	100,787	105,826	111,118	116,674	122,507	128,632
Construction Worker I	50,904	53,450	56,122	58,928	61,875	64,969	68,217	71,627	75,209
Construction Worker II	58,928	61,875	64,969	68,217	71,627	75,209	78,970	82,918	87,063
Customer Service Representative I	48,480	50,904	53,450	56,122	58,928	61,875	64,969	68,217	71,627
Customer Service Representative II	54,770	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919
Customer Service Representative III	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919	84,965
Customer Service Supervisor	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862	119,555
Development Services Coordinator	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862	119,555
Development Services Senior Engineer	113,862	119,555	125,533	131,809	138,399	145,320	152,585	160,215	168,226
District Engineer	156,354	164,172	172,380	180,999	190,050	199,552	209,529	220,006	231,006
Electrical/Instrumentation Technician	77,066	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862
Engineering Services Assistant	58,928	61,875	64,969	68,217	71,627	75,209	78,970	82,918	87,063
Engineering Technician I	58,928	61,875	64,969	68,217	71,627	75,209	78,970	82,918	87,063
Engineering Technician II	68,217	71,627	75,209	78,970	82,918	87,063	91,417	95,987	100,787
Engineering Technician III	78,970	82,918	87,063	91,417	95,987	100,787	105,826	111,118	116,674
Executive Assistant	73,396	77,066	80,919	84,965	89,214	93,674	98,358	103,276	108,440
Facility Locator	64,969	68,217	71,627	75,209	78,970	82,918	87,063	91,417	95,987
Finance Assistant	54,770	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919
Finance Supervisor	100,787	105,826	111,118	116,674	122,507	128,632	135,064	141,818	148,908
General Manager	273,716	273,716	273,716	273,716	273,716	273,716	273,716	273,716	273,716
GIS/CADD Technician	66,572	69,901	73,396	77,066	80,919	84,965	89,214	93,674	98,358
Human Resources Analyst	75,209	78,970	82,918	87,063	91,417	95,987	100,787	105,826	111,118
Information Technology Analyst	73,396	77,066	80,919	84,965	89,214	93,674	98,358	103,276	108,440
IT Business Analyst I	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862	119,555
IT Business Analyst II	95,987	100,787	105,826	111,118	116,674	122,507	128,632	135,064	141,818
Landscape Maintenance Worker I	49,678	52,162	54,770	57,508	60,382	63,402	66,572	69,901	73,396
Landscape Maintenance Worker II	54,770	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919
Maintenance Services Supervisor	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862	119,555
Mechanic	63,402	66,572	69,901	73,396	77,066	80,919	84,965	89,214	93,674

VALLECITOS WATER DISTRICT PERSONNEL CLASSIFICATION ANNUAL PAY SCHEDULE

has been duly approved and adopted by Vallecitos Water District Board in accordance with requirements of applicable public meeting laws.

Effective 9/7/2022 - Exhibit "A"

POSITION/TITLE	EXPERIENCE STEPS							LONGEVITY	
	A	B	C	D	E	F	G	H	I
Mechanical / Electrical Supervisor	89,214	93,674	98,358	103,276	108,440	113,862	119,555	125,533	131,809
Meter Service Supervisor	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862	119,555
Meter Service Worker I	48,480	50,904	53,450	56,122	58,928	61,875	64,969	68,217	71,627
Meter Service Worker II	56,122	58,928	61,875	64,969	68,217	71,627	75,209	78,970	82,918
Operations and Maintenance Contract Coordinator	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919	84,965
Operations and Maintenance Manager	152,585	160,215	168,226	176,636	185,469	194,742	204,479	214,703	225,438
Principal Financial Analyst	95,987	100,787	105,826	111,118	116,674	122,507	128,632	135,064	141,818
Public Information Representative	77,066	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862
Public Information/Conservation Supervisor	91,417	95,987	100,787	105,826	111,118	116,674	122,507	128,632	135,064
Pump and Motor Technician Assistant	54,770	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919
Pump and Motor Technician I	63,402	66,572	69,901	73,396	77,066	80,919	84,965	89,214	93,674
Pump and Motor Technician II	73,396	77,066	80,919	84,965	89,214	93,674	98,358	103,276	108,440
Risk Management Supervisor	100,787	105,826	111,118	116,674	122,507	128,632	135,064	141,818	148,908
Safety Technician	69,901	73,396	77,066	80,919	84,965	89,214	93,674	98,358	103,276
Senior Accountant	77,066	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862
Senior Construction Worker	68,217	71,627	75,209	78,970	82,918	87,063	91,417	95,987	100,787
Senior Customer Service Representative	61,875	64,969	68,217	71,627	75,209	78,970	82,918	87,063	91,417
Senior Executive Assistant	80,919	84,965	89,214	93,674	98,358	103,276	108,440	113,862	119,555
Senior Pump and Motor Technician	78,970	82,918	87,063	91,417	95,987	100,787	105,826	111,118	116,674
Senior Purchasing Specialist	73,396	77,066	80,919	84,965	89,214	93,674	98,358	103,276	108,440
Senior Wastewater Collection Systems Worker	64,969	68,217	71,627	75,209	78,970	82,918	87,063	91,417	95,987
Senior Wastewater Treatment Plant Operator	78,970	82,918	87,063	91,417	95,987	100,787	105,826	111,118	116,674
Senior Water Systems Operator	75,209	78,970	82,918	87,063	91,417	95,987	100,787	105,826	111,118
Source Control Technician	68,217	71,627	75,209	78,970	82,918	87,063	91,417	95,987	100,787
Systems Administrator	87,063	91,417	95,987	100,787	105,826	111,118	116,674	122,507	128,632
Valve Maintenance Technician	64,969	68,217	71,627	75,209	78,970	82,918	87,063	91,417	95,987
Warehouse Assistant I	49,678	52,162	54,770	57,508	60,382	63,402	66,572	69,901	73,396
Warehouse Assistant II	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919	84,965
Wastewater Collection Systems Supervisor	87,063	91,417	95,987	100,787	105,826	111,118	116,674	122,507	128,632
Wastewater Collection Systems Worker I	49,678	52,162	54,770	57,508	60,382	63,402	66,572	69,901	73,396
Wastewater Collection Systems Worker II	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919	84,965
Wastewater Treatment Plant Operator I	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919	84,965
Wastewater Treatment Plant Operator II	66,572	69,901	73,396	77,066	80,919	84,965	89,214	93,674	98,358
Wastewater Treatment Plant Supervisor	93,674	98,358	103,276	108,440	113,862	119,555	125,533	131,809	138,399
Water Systems Operator I	57,508	60,382	63,402	66,572	69,901	73,396	77,066	80,919	84,965
Water Systems Operator II	66,572	69,901	73,396	77,066	80,919	84,965	89,214	93,674	98,358
Water Systems Supervisor	93,674	98,358	103,276	108,440	113,862	119,555	125,533	131,809	138,399

DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: AWARD OF CONSTRUCTION CONTRACT FOR THE MEADOWLARK WATER RECLAMATION FACILITY BATTERY ENERGY STORAGE SYSTEM RETAINING WALL PROJECT

BACKGROUND:

The Meadowlark Water Reclamation Facility (MRF) was approved for a 572-kilowatt (3,080-kilowatt hour) Battery Energy Storage System (BESS) through the State of California Regional Resilience Planning & Implementation Grant Program which supports projects that improve regional climate resilience and reduce risks from climate impacts, including wildfire, sea level rise, drought, flood, increasing temperatures, and extreme heat events.

Benefits of implementing a BESS at specific District facilities where projected demand savings combined with high-value Self-Generation Incentive Program (SGIP) incentives will be leveraged to offset the cost of the equipment, installation, and normal operations at MRF. The BESS will provide an alternative source of power to ensure the peak amount of power drain from the electrical grid does not exceed a set maximum threshold. The primary financial benefits from BESS systems consist of demand reduction and “peak shaving”. This allows the District to remain on a more cost-effective SDG&E rate structure and reduce demand charges. BESS systems can also provide several other financial and operational benefits, including energy arbitrage (charging and discharging the BESS based on on the time-of-use price of electricity) and resiliency (standby power). The District’s Energy Management Study estimates an annual $50,000-60,000 savings as a result of utilizing the BESS at MRF.

To accommodate the footprint required for the proposed BESS without negatively impacting MRF operations, a reinforced concrete retaining wall will be installed in an embankment adjacent to the existing electrical building. This improvement is required before the BESS can be procured and installed.

The District awarded as-needed engineering design consultant, Kelsey Structural (KS) a task order for design phase services on December 13, 2021 for $6,000 and a subsequent Amendment 1 on March 10, 2022 for design and bid phase services for $4,250 for a total not-to-exceed design fee of $10,250.

DISCUSSION:

The engineer’s estimate of probable construction cost was valued at $175,000. Staff publicly advertised the project on July 7, 2022, and on July 20, 2022, staff conducted a pre-bid meeting at MRF where 5 local general contractors attended. District staff received and opened bids on August 4, 2022, at 2:00 p.m. from 2 contractors with bid results as follows:

Bidder	Amount
Koch General Engineering	$174,305
SCW Contracting Corp	$289,500

KS provided a proposal for construction phase engineering services for a not-to-exceed time and materials fee of $2,500 (Amendment 2) on August 8, 2022.

Staff and Counsel completed the evaluation of qualifications and determined Koch General Engineering was the lowest responsive, responsible bidder.

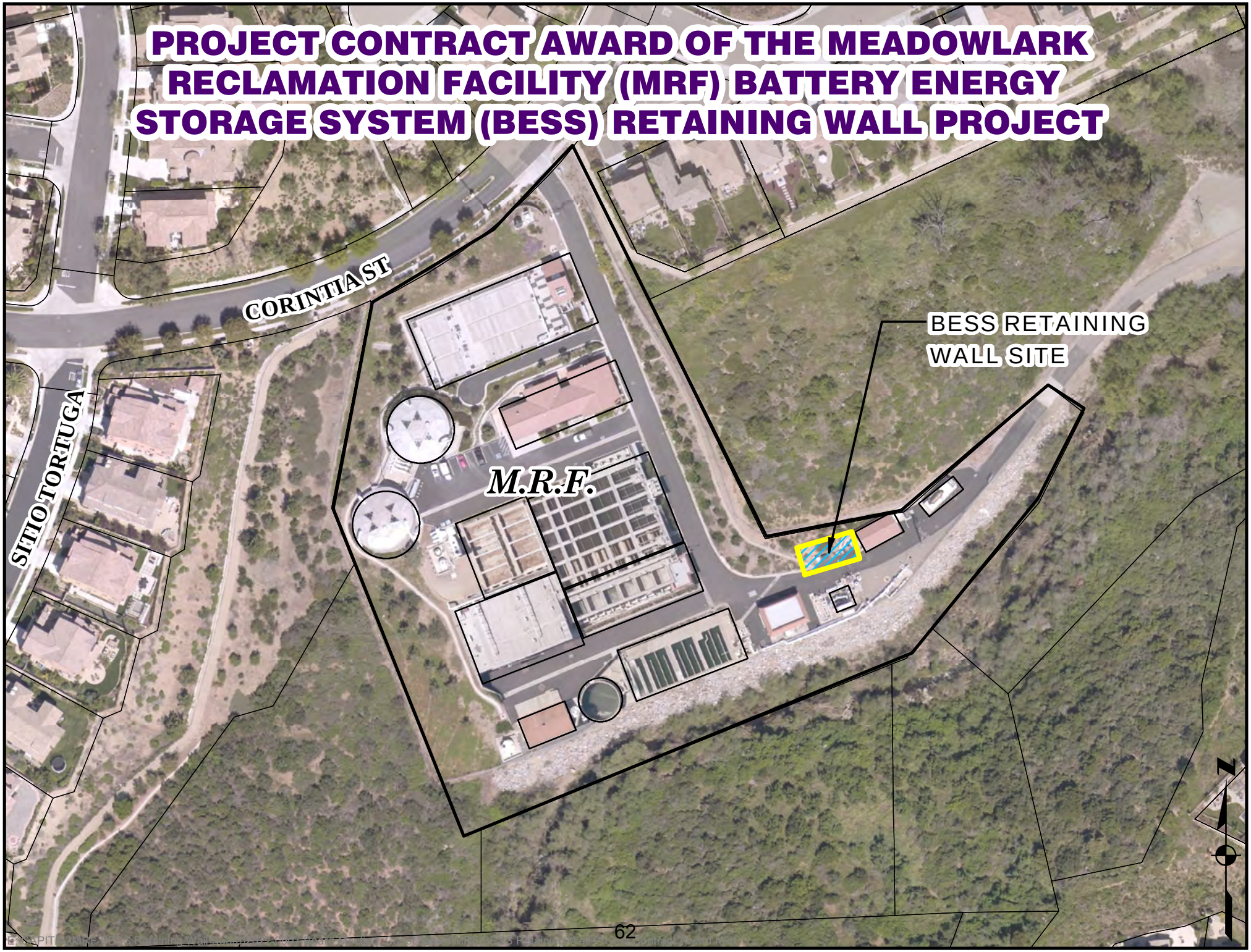
KS performed design and bid phase engineering services and will also provide engineering services during construction. Staff will provide project management, construction management, and inspection services.

FISCAL IMPACT:
The total estimated cost and budget summary are as follows:

Budget	**$**	**290,000**
Construction Contract	$	174,305
10% Change Order (Ord. No. 146)	$	17,430
Kelsey Structural (Design & Bid)	$	10,250
Kelsey Structural (Construction)	$	2,500
Staff (Design & Bid)	$	5,000
Staff (Construction)	$	15,000
Staff Overhead (Design, Bid, & Construction)	$	50,000
Total	**$**	**274,485**
Projected Budget Surplus	**$**	**15,515**

RECOMMENDATION:
Staff recommends authorizing the General Manager to execute a construction contract with Koch General Engineering in the amount of $174,305 for the MRF BESS Retaining Wall Project, subject to the provisions of the contract.

ATTACHMENT(S):
1 Map Exhibit – 1 Aerial Map


PROJECT CONTRACT AWARD OF THE MEADOWLARK RECLAMATION FACILITY (MRF) BATTERY ENERGY STORAGE SYSTEM (BESS) RETAINING WALL PROJECT
CORINTIA ST
SITIO TORTUGA
M.R.F.
BESS RETAINING WALL SITE
N

DATE: **SEPTEMBER 7, 2022**
TO: **BOARD OF DIRECTORS**
SUBJECT: **ADOPTION OF RESOLUTION ORDERING THE ANNEXATION OF CERTAIN PROPERTY DESIGNATED AS THE "MONTIEL ROAD PARTNERS / RAMIREZ SEWER ANNEXATION" INTO THE SEWER IMPROVEMENT DISTRICTS 5 & 6 (MONTIEL PARTNERS, LP)**

BACKGROUND:

The Montiel Road Partners / Ramirez Sewer Annexation Project ("Project") consists of approximately 4.4 acres (APNs 228-120-48, 49, 50, 51, 52, & 53) located on Montiel Road, between Nordahl Road and St. Paul Drive in the City of San Marcos. Conditions for annexation into the District's sewer service boundary were approved at the June 2, 2021, Board of Director's meeting. The properties are currently within the District's water service boundary.

DISCUSSION:

Existing water and sewer facilities are located in Montiel Road. The owner will extend water and sewer facilities within the development to serve all properties in the proposed 9-lot subdivision and sewer connection of the Ramirez property (APN 228-120-49), which is the property at the north end of the project. Including the Ramirez property into this project will allow for their future sewer connection, as well as removing this property from a Temporary Off-Site Water Agreement.

Since this is a sewer only annexation, the process is internal to the District. LAFCO or other approvals are not required. The owner has met all Board-approved conditions of annexation listed in the June 2, 2021, staff report.

FISCAL IMPACT:

Payment of $45,198.19 ($10,256.00/acre x 4.4 acres) in sewer annexation fees have been collected in accordance with Ordinance No. 200 ($27,998.88 is Montiel Road Partner's portion and $17,199.31 is Antonio Ramirez' portion).

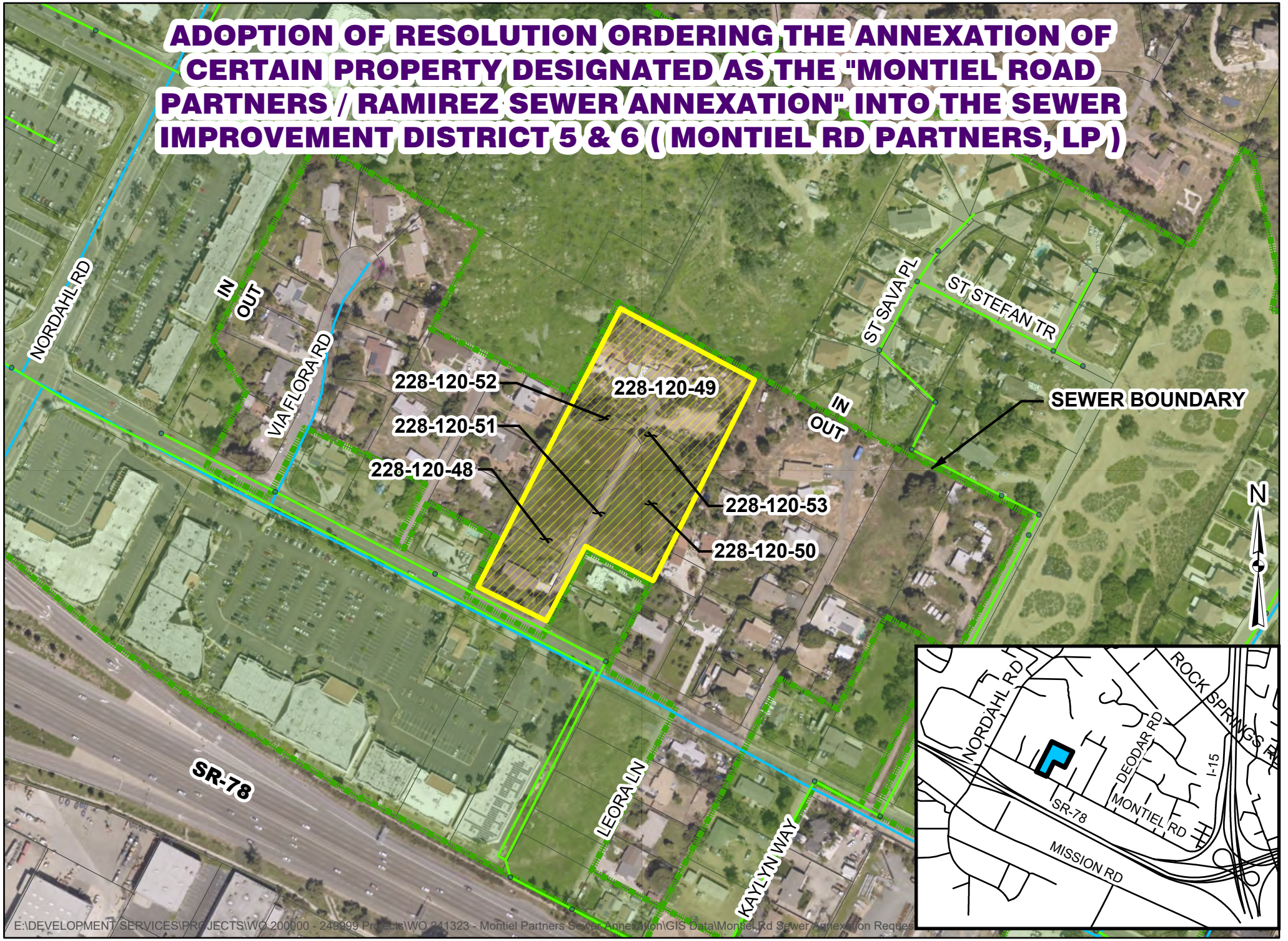
Prior to occupancy the project will pay capital facility fees per Ordinance No. 175.

RECOMMENDATION:

Adopt the resolution ordering the annexation of APNs 228-120-48, 49, 50, 51, 52, & 53 into the Vallecitos Water District's Sewer Improvement Districts 5 & 6.

ATTACHMENT(S):

1 Aerial Map Exhibit
Resolution


ADOPTION OF RESOLUTION ORDERING THE ANNEXATION OF CERTAIN PROPERTY DESIGNATED AS THE "MONTIEL ROAD PARTNERS / RAMIREZ SEWER ANNEXATION" INTO THE SEWER IMPROVEMENT DISTRICT 5 & 6 (MONTIEL RD PARTNERS, LP)
NORDAHL RD
IN
OUT
VIA FLORA RD
228-120-52
228-120-51
228-120-48
228-120-49
228-120-53
228-120-50
ST SAVA PL
ST STEFAN TR
SEWER BOUNDARY
IN
OUT
N
SR-78
LEORA LN
KAYLYN WAY
NORDAHL RD
ROCK SPRINGS RD
DEODAR RD
I-15
SR-78
MONTIEL RD
MISSION RD
E:\DEVELOPMENT SERVICES\PROJECTS\WO 200000 - 249999 Projects\WO 241323 - Montiel Partners Sewer Annexation\GIS Data\Montiel Rd Sewer Annexation Reques

RESOLUTION NO.

RESOLUTION OF THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT ORDERING THE ANNEXATION INTO SEWER IMPROVEMENT DISTRICTS 5 & 6 FOR SEWER SERVICE OF CERTAIN PROPERTY DESIGNATED AS THE "MONTIEL ROAD PARTNERS / RAMIREZ SEWER ANNEXATION" APNS 228-120-48, 49, 50, 51, 52, & 53

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT as follows:

SECTION 1: The following facts are hereby found and determined to be true:

Section 1.1: That the Vallecitos Water District owns, operates, and maintains a sewage disposal system under and by virtue of Improvement Districts 5 & 6 of the Vallecitos Water District.

Section 1.2: That the owners of the land described in this resolution have given their written consent to the annexation of said lands to the Improvement Districts hereinafter designated and have, in writing, requested the annexation of said lands to said Improvement Districts.

Section 1.3: That the owners of the land described in this resolution have advanced to the Secretary of the Vallecitos Water District the costs of this annexation, including, but not limited to, advertising, engineering, and attorney's fees.

Section 1.4: The inclusion of said land within the designated Improvement Districts will be for the best interest of the designated Improvement District.

Section 1.5: The inclusion of said land within said Improvement Districts will be for the best interest of the land, and the owners thereof consent to the inclusion of said land in the designated Improvement Districts of the Vallecitos Water District.

Section 1.6: The Board of Directors determines that all the land hereinafter described shall be included in the designated Improvement Districts; that the proceedings had for the annexation and inclusion herein and above referred to were genuine and sufficient and in all respects complied with the Water Code of the State of California commencing at Section 32550.

Section 1.7: That the land herein described is within the boundaries of the Vallecitos Water District and said lands are not a part of an Improvement District constituted for a purpose similar to the purpose of Improvement Districts 5 & 6 of the Vallecitos Water District.

Section 1.8: All of the owners of the land within the territory to be annexed have given their written consent to such annexation and the Board is thereby authorized to order the annexation by resolution without notice and hearing by the Board and without an election.

SECTION 2: The Board of Directors of the Vallecitos Water District does hereby order the annexation of all the lands hereinafter described to Improvement Districts 5 & 6 of the Vallecitos Water District pursuant to this resolution and the proceedings above referred to, which description contained in Exhibit "A" attached hereto and made a part hereof, is sufficient to identify the land.

SECTION 3: The condition of said annexation to Improvement Districts 5 & 6 of the Vallecitos Water District are as follows:

Section 3.1: Payment by petitioners of the sum of $7,043.00 per acre or fraction thereof for annexation of the territory into Improvement Districts 5 & 6 (together not individually) for the use or right of use of the existing property in the Improvement Districts.

Section 3.2: Payment by the petitioners of the sum of $1,300.00 to cover costs of annexation, which includes attorney fees, publication, filing fees and miscellaneous costs of annexation.

Section 3.3: The lands annexed to an Improvement District shall be subject to existing bond issues and indebtedness of the Improvement District from and after the filing with the San Diego County Assessor of a certified copy of this resolution as set forth in Section 32553 of the Water code of the State of California.

SECTION 4: This resolution shall become effective immediately upon its final passage; this resolution being adopted pursuant to Section 32552 of the Water Code of the State of California. This resolution being adopted without notice and hearing and without an election being conducted in said territory, all in accordance with Section 32552 of the Water Code of the State of California. The Secretary of this District shall comply with the provisions of the Water Code, Section 32553, and shall file a certified copy of this resolution together with a map of the territory thus annexed with the San Diego County Assessor and the San Diego County Tax Collector and with the State Board of Equalization.

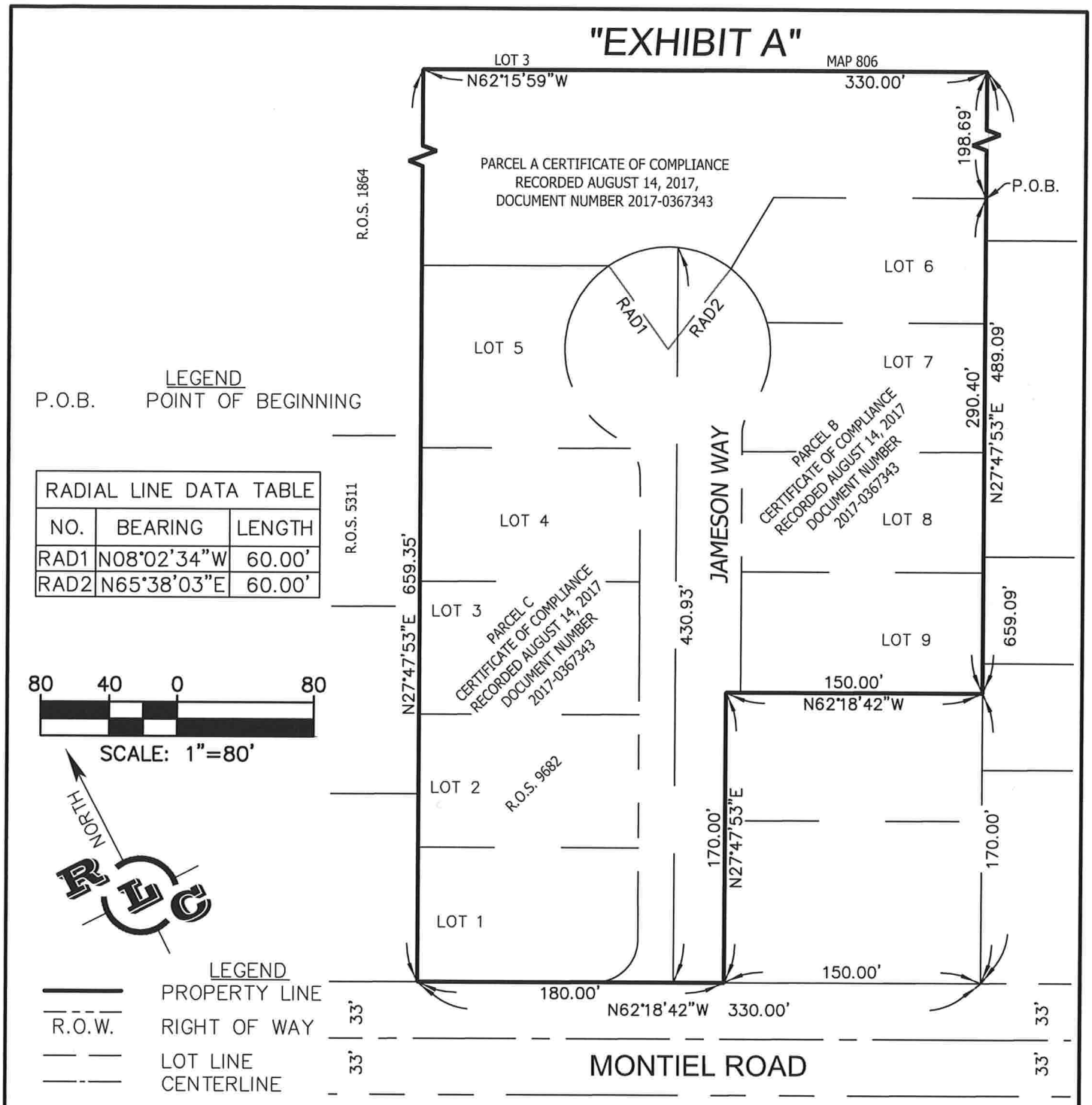
PASSED AND ADOPTED by the Board of Directors of the Vallecitos Water District at a regular meeting held on this 7th day of September, 2022, by the following roll call vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Craig Elitharp, President
Board of Directors
Vallecitos Water District

ATTEST:

_____
Glenn Pruim, General Manager
Board of Directors
Vallecitos Water District



SHEET 2 OF 2

VALLECITOS WATER DISTRICT
MONTIEL ANNEXATION

BEING A SUBDIVISION OF A PORTION OF LOT 3, BLOCK 6 OF RANCHO LOS VALLECITOS DE SAN MARCOS LOTS 1 THRU 9 & LOT "A"

PROFESSIONAL LAND SURVEYOR
CASEY R. LYNCH
No. 8380
EXP. 12/31/23
CALIFORNIA

RANCHO LAND COMPANY 406 16TH STREET, SUITE 102 RAMONA CA, 92065 (760)788-1530

8/22/2022

CASEY R. LYNCH LS 8380 DATE

"EXHIBIT A"

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM, CCS 83, ZONE 6 BEARING, BETWEEN FIRST ORDER CONTROL STATIONS 1046 AND 1035 ACCORDING TO THE CITY OF SAN MARCOS SURVEY CONTROL, RECORD OF SURVEY 13928.

BEARING TAKEN AS: NORTH 85°00'11" EAST

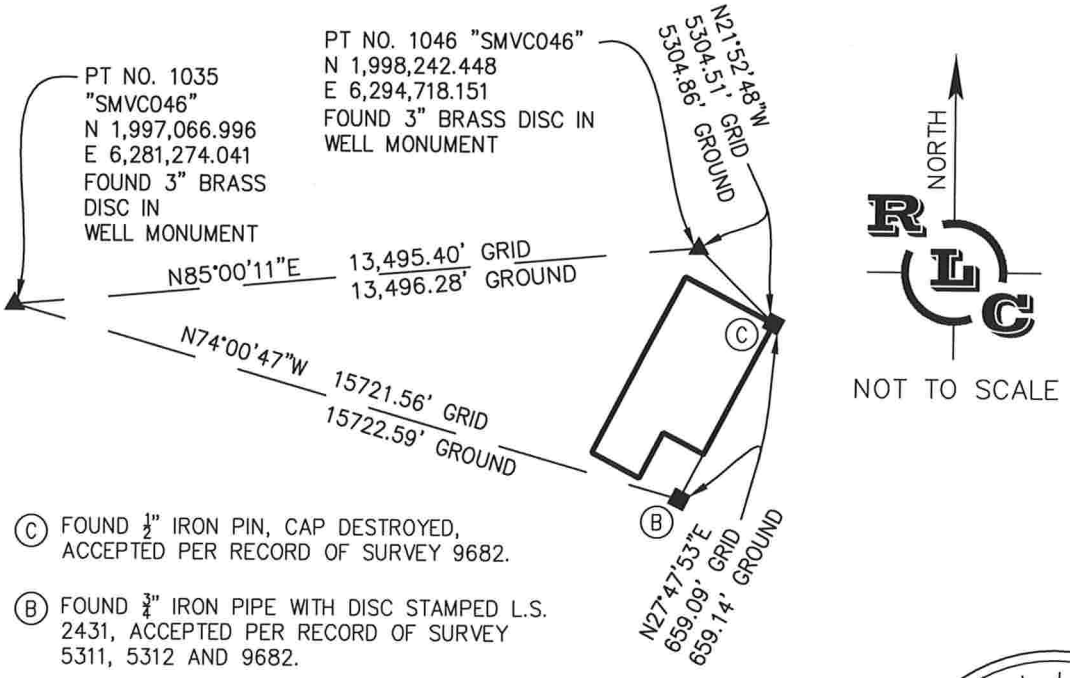
QUOTED BEARINGS FROM REFERENCE MAPS AND DEEDS NOTED HEREON MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

THIS MAP WAS SCALED FROM GRID TO GROUND AT STATION 1046 "SMVC046" ACCORDING TO THE RECOMMENDED PROCEDURE NOTED ON RECORD OF SURVEY 13928.

STATION 1046 "SMVC046"	NORTHING:	1,998,242.448
	EASTING:	6,294,718.151

THE AVERAGE COMBINED SCALE FACTOR BETWEEN STATION 1046 AND 1035 IS 0.999934733 AND WAS HELD FROM STATION 1046.
GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR.

ALL DISTANCES ON THIS MAP ARE IN TERMS OF GROUND, UNLESS OTHERWISE SHOWN OR NOTED HEREON.



(C) FOUND ½" IRON PIN, CAP DESTROYED, ACCEPTED PER RECORD OF SURVEY 9682.

(B) FOUND ¾" IRON PIPE WITH DISC STAMPED L.S. 2431, ACCEPTED PER RECORD OF SURVEY 5311, 5312 AND 9682.

SHEET 1 OF 2

VALLECITOS WATER DISTRICT
MONTIEL ANNEXATION

BEING A SUBDIVISION OF A PORTION OF LOT 3, BLOCK 6 OF RANCHO LOS VALLECITOS DE SAN MARCOS LOTS 1 THRU 9 & LOT "A"

RANCHO LAND COMPANY 406 16TH STREET, SUITE 102 RAMONA CA, 92065 (760)788-1530

PROFESSIONAL LAND SURVEYOR
CASEY R. LYNCH
No. 8380
EXP. 12/31/23
CALIFORNIA

8/22/2022

CASEY R. LYNCH LS 8380 DATE

LEGAL DESCRIPTION
MONTIEL FINAL MAP ANNEXATION
VALLECITOS WATER DISTRICT

ALL THAT CERTAIN REAL PROPERTY, SITUATE IN THE CITY OF SAN MARCOS, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA DESCRIBED AS FOLLOWS:

ALL THAT PORTION OF THE EASTERLY 330.00 FEET OF THE SOUTHERLY HALF OF LOT 3 IN BLOCK 6 OF RANCHO LOS VALLECITOS DE SAN MARCOS, ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY ON DECEMBER 21, 1895, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF PARCEL "B" OF THE CERTIFICATE OF COMPLIANCE, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY ON AUGUST 14, 2017, AS DOCUMENT NUMBER 2017-0367343, LYING SOUTH 20°16'58" WEST, 5,435.20 FEET FROM THE CITY OF SAN MARCOS CONTROL POINT NUMBER 1046, KNOWN AS "SMVC046" AS SHOWN ON RECORD OF SURVEY 13928; THENCE ALONG THE EASTERLY LINE OF SAID PARCEL "B", SOUTH 27°47'53" WEST, 290.40 FEET TO THE AN ANGLE POINT THEREIN; THENCE NORTH 62°18'42" WEST, 150.00 FEET TO AN ANGLE POINT THEREIN; THENCE SOUTH 27°47'53" EAST, 170.00 FEET TO THE SOUTHERLY LINE OF SAID PARCEL "B", ALSO BENG THE NORTHERLY RIGHT OF WAY OF MONTIEL ROAD, 66.00 FEET WIDE, THENCE WESTERLY ALONG THE SOUTHERLY LINE OF SAID PARCEL "B", NORTH 62°18'42" WEST, 180.00 FEET TO THE SOUTHWESTERLY CORNER OF SAID PARCEL B; THENCE NORTHERLY ALONG THE EASTERLY LINE OF SAD PARCEL "B" AND PARCEL "A" OF THE CERTIFICATE OF COMPLIANCE, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY ON AUGUST 14, 2017, AS DOCUMENT NUMBER 2017-0367343, NORTH 27°47'53" EAST, 659.35 FEET TO THE NORTH LINE OF SAID PARCEL "A"; THENCE EASTERLY ALONG SAID NORTH LINE OF SAID PARCEL A, SOUTH 62°15'59" EAST, 330.00 FEET TO THE NORTHEAST CORNER OF SAID PARCEL "A"; THENCE ALONG THE EASTERLY LINE OF SAID PARCEL "A", SOUTH 24°47'53" WEST, 198.69 FEET TO THE POINT OF **BEGINNING**.

CONTAINING 4.408 ACRES, MORE OR LESS.

8-22-2022

CASEY R. LYNCH, PLS 8380 DATE

DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: AUTHORIZATION TO EXECUTE AN AGREEMENT FOR DOOR ACCESS CONTROL SYSTEM EXPANSION FOR MEADOWLARK WATER RECLAMATION FACILITY AND MAHR RESERVOIR

BACKGROUND:

The District completed a vulnerability assessment as required by the Department of Homeland Security in 2014. Recommended improvements were identified during the assessment process and implementation started during Fiscal Year (FY) 2014/2015. As a result, several building doors at the District were retrofitted with electronic door locks and are managed by an electronic access control system.

DISCUSSION:

The District is improving facility safety and security by implementing access control technology on all campuses. Building exterior doors at the Meadowlark Water Reclamation Facility (MRF) and Mahr facilities will be retrofitted with electronic door locks and authorized users will access buildings using an electronic identification card, rather than a physical key. This system eliminates the need to rekey locks and recut keys, as electronic door locks can be immediately reconfigured without full replacement when keys are lost or stolen. Additionally, access control technology can track entry activity in real-time and provide detailed reporting in case of emergencies. The District already possesses the equipment and system which have been activated at District headquarters.

MRF and Mahr buildings are the next facilities to be converted to keyless entry and add them to our existing electronic access control system. This upgrade will allow dual access to doors using a fob or a security code and will eliminate the need for keys at MRF and Mahr. This initiative will allow for improved access control to District facilities while minimizing reliance on the management of physical keys.

FISCAL IMPACT:

Expansion of access control systems for MRF and Mahr Reservoir were approved in the FY 2022/2023 Capital Improvement Program (CIP). Three quotes were obtained pursuant to the District's Purchasing Policy. These quotes ranged from $129,250 to $292,000. Accurate Security Pros provided the most comprehensive and lowest cost response to the District's request for $129,250. The District CIP budget for expansion of access control systems for MRF and Mahr Reservoir is $190,000.

RECOMMENDATION:

Authorize the General Manager to execute an agreement with Accurate Security Pros to install Access Control Systems at MRF and Mahr Reservoir for $129,250.

DATE: **SEPTEMBER 7, 2022**
TO: **BOARD OF DIRECTORS**
SUBJECT: **APPROVAL OF TEMPORARY OFF-SITE WATER AND SEWER SERVICE AGREEMENTS FOR MERRIAM RESIDENCE (ROBERT MERRIAM)**

BACKGROUND:

Robert Merriam, owner of the property, has requested approval of Temporary Off-Site Water and Sewer Service Agreements to provide water and sewer service for a single-family residence at 1080 Rock Springs Road. The 12,217-square foot property is located within the District's water and sewer service boundary. The current 0.67-acre lot is being subdivided, leaving one lot without frontage to the existing 12-inch asbestos cement pipe (ACP) water main and 15-inch vitrified clay pipe (VCP) sewer main in Rock Springs Road.

DISCUSSION:

Per District Ordinance No. 118, a Temporary Off-Site Water Service Agreement is defined as service to those properties that do not abut, traverse, or are adjacent to existing pipelines and future extensions of pipelines are not expected. Since one of the parcels does not abut the water main in Rock Springs Road, the property requires a Temporary Off-Site Water and Sewer Service Agreement.

The size of the lot being subdivided did not provide enough room for both parcels to front the water and sewer mains on Rock Springs Road. The property owner is requesting a Temporary Off-Site Agreement for water and sewer connections fronting the adjacent property below onto Rock Springs Road.

FISCAL IMPACT:

The property owner paid for all costs associated with the preparation and recordation of the Temporary Off-Site Agreements. The property owner will also be responsible for payment of $22,458.00 in water and sewer capital facility fees in accordance with Ordinance Nos. 175 and 176 prior to occupancy.

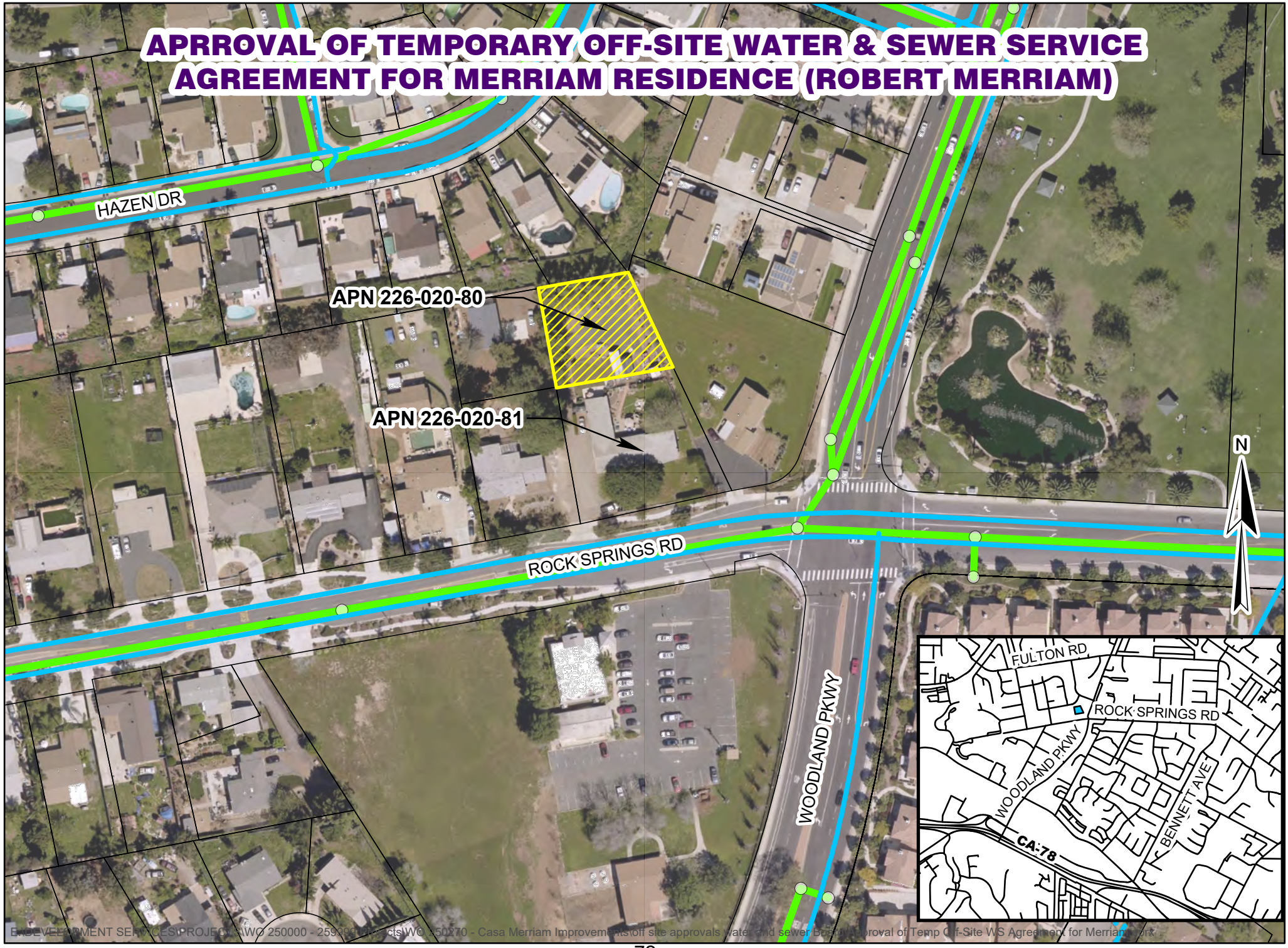
RECOMMENDATION:

Approve Temporary Off-Site Water and Sewer Service Agreements with the following conditions:

1. Execution of Temporary Off-Site Water and Sewer Service Agreements which will be recorded against the property.
2. Payment of $1,000 Administration fee and County recording fees (paid).
3. Submittal of recorded private access and utility easement covenant across adjacent property for the private water and sewer service lines.

ATTACHMENT(S):

1 Map Exhibit – 1 Aerial Map


APRROVAL OF TEMPORARY OFF-SITE WATER & SEWER SERVICE AGREEMENT FOR MERRIAM RESIDENCE (ROBERT MERRIAM)
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BETWEEN THE PIPES

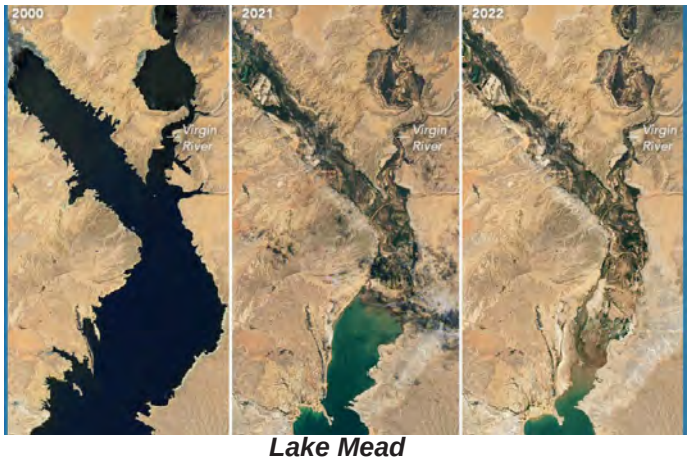
VALLECITOS WATER DISTRICT
Water and Wastewater Specialists since 1955

Fall 2022

Drought in the West

The Sierras are Dry

Early winter storms that provided optimism were followed by an extraordinarily and nearly precipitation-free winter. The west continues to experience what scientists deem the worst megadrought in 1200 years. Along with depleted reservoirs, this year's snowpack and water content remain below average in the crucial Northern Sierra where snowmelt helps fill the state's largest reservoirs.



Lake Mead

Colorado River Drought Conditions

In August, the U.S. Bureau of Reclamation announced that it would require Arizona and Nevada to reduce their annual allocation of water from the Colorado River. The Colorado River supplies water to forty million people in two countries, seven states, indigenous tribes, and millions of acres of farmland. The Colorado River Basin has seen the driest 22-year period recorded in more than 100 years of record-keeping.

Lake Mead is Dropping to Dangerous Levels

The largest reservoir in the United States is Lake Mead, formed by the completion of the Hoover Dam in 1935. With current water consumption rates during the ongoing drought, Lake Mead is nearing the level at which it can no longer generate hydropower. If the lake level drops too low it will reach "dead pool" status, and water will be unable to flow past the dam.

Governor's News Conference

In August, Governor Gavin Newsom unveiled a plan that would increase California's water supply and combat the extreme weather patterns caused by climate change. The Governor's effort, captured in the 19-page "California's Water Supply Strategy, Adapting to a Hotter, Drier Future" document released by Newsom's administration, will invest $8 billion in water recycling, storage, stormwater capture and desalination.

VWD has invested in Water Supplies

Vallecitos has invested in water recycling at the Meadowlark Water Reclamation Facility (MRF) and desalination (direct connection to the Carlsbad desalination plant) and plans to study the feasibility of developing new water sources. The MRF currently provides approximately four million gallons per day of recycled water to the Olivenhain Municipal Water District and the City of Carlsbad. Vallecitos plans to explore the feasibility of repurposing some of this capacity, or expanding MRF, to create potable water for distribution to District water customers. The evaluation is the first step in determining if this concept is technically and financially feasible.

VWD is in a Level 2 Drought Alert

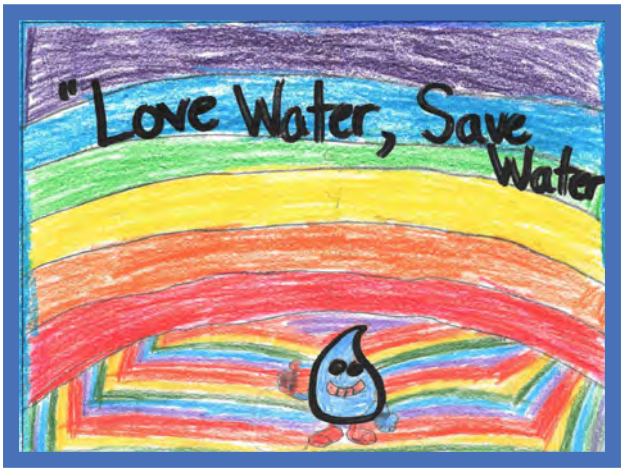
San Diego County has sufficient water supplies now and for the foreseeable future under all planning and drought scenarios. Ratepayers region-wide began investing in both water supplies and conservation more than 30 years ago to ensure resilience during the kind of extreme drought we are now experiencing. Details on drought and water use restrictions can be found here:
http://vwd.org/drought

Congratulations to our 2022 Calendar Contest winners for their beautiful drawings demonstrating how to "Love Water - Save Water!"

1st place - Leilani Rodriguez from Mrs. Cuevas' class at Knob Hill Elementary School

2nd place - Ivan Ramirez Carrillo from Mrs. Glaves-Funk's class at San Marcos Elementary

3rd place - Rose Tucker from Ms. Slavens' class at Double Peak School



VALLECITOS WATER DISTRICT
Water and Wastewater Specialists since 1955

'Water Academy' Tour

Vallecitos Behind-the-Scenes 'Water Academy' Tour
October 20, 2022 from 8:30 a.m. - 4:30 p.m.

Have you ever wondered how your drinking water is treated and delivered to your home or business, or how the water from your toilets and sinks is recycled to such high standards that it can be used for irrigation? You can have these and more questions answered by getting a behind-the-scenes look during our FREE award winning Water Academy tour.

Our certified water and wastewater specialists offer customers a first-hand look at what it takes to operate the Vallecitos Water District and provide reliable, exceptional and sustainable water and wastewater services to the more than 105,000 residents in our service area. Participants board a chartered bus for a first-hand look at the District's 33-million-gallon and 40-million-gallon capacity Twin Oaks Reservoirs, currently said to be the largest in the western hemisphere. The grand finale of the tour is a visit to the District's Meadowlark Water Reclamation Facility in Carlsbad, capable of recycling up to 74% of the wastewater generated in our service area. At this facility, participants learn how microorganisms help clean the water and see how increased capacity from the recent plant upgrade benefits the community by lowering the overall demand for limited, imported water.

In addition to these destinations, other tour highlights include seeing how specialized equipment is used in the field to keep the wastewater flowing, visiting the Water Operations Department's computerized control room to see how the District ensures that the drinking water is safe, and touring the Sustainable Demonstration Garden where participants will learn easy steps to conserve water. Various presentations will also be given at the beginning of the tour where participants will hear an overview of the District and have an opportunity to have questions answered by staff and District Board members.

District staff takes customers on a tour of Meadowlark Reclamation Facility

From conservation-leading, forward-thinking projects like the Meadowlark plant upgrade to the unique educational aspect of the Water Academy tour itself, Vallecitos Water District has proven itself a community leader ready to use out-of-the-box thinking to meet its customers' demands.

The tour begins at the District's Administrative Offices located at 201 Vallecitos de Oro, San Marcos.

Vallecitos customers or members of the media interested in participating in the next Water Academy tour are welcome to contact Alicia Yerman at (760) 752-7123 or register online at www.vwd.org/wateracademy.

VALLECITOS WATER DISTRICT
Water and Wastewater Specialists since 1955

201 Vallecitos de Oro
San Marcos, CA 92069
(760) 744-0460
www.vwd.org

BETWEEN THE PIPES

Between the Pipes is a publication of information and interest to Vallecitos water and sewer customers. If you receive water or sewer services from another district, please disregard any information that does not apply to you.

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Management Staff
Glenn Pruim, General Manager
James Gumpel, Assistant General Manager
Rhondi Emmanuel, Administrative Services Manager
Ed Pedrazzi, Operations and Maintenance Manager
Wes Owen, Finance Manager

The public is welcome to attend the Vallecitos Board Meetings the first and third Wednesday of each month at 5:00 p.m. in the Administration building—201 Vallecitos de Oro in San Marcos.

To provide public comments prior to the meeting, submit comments via e-mail at PublicComment@VWD.org up to 90 minutes in advance of the meeting. Comments received are handled by the Clerk of the Board of Directors as if submitted in person. All written comments that are received at least 90 minutes before the meeting will be provided to the Board, and a record of the receipt of comment will be noted during the meeting. To comment during the meeting or to watch or listen to the live meeting, go to www.vwd.org/meetings.

Postal Customer

"Like us" on Facebook or follow us on Twitter
@vallecitoswater

Twin Oaks Reservoir #1 Cleaned in 2 1/2 Days

Vallecitos crews recently cleaned and inspected one of our largest drinking water reservoirs, located in North Twin Oaks Valley. Twin Oaks Reservoir #1 is a 33 million gallon, below ground concrete reservoir. It sits right next to its sister, Twin Oaks Reservoir #2, which is a 40 million gallon reservoir of the same type of construction. These two massive drinking water reservoirs provide nearly 2/3 of the storage capacity for Vallecitos. The water from these two reservoirs can be delivered to every Vallecitos customer through our 380 miles of pipe.

Maintaining critical infrastructure is one of the many ways we work to achieve our mission of being "The water and wastewater specialists - providing reliable and sustainable services." Vallecitos crews are specially trained to keep our reservoirs sparkling clean, so you can enjoy sparkling clean drinking water. Watch this video to learn more about the cleaning process and how we keep you healthy and safe. https://www.youtube.com/watch?v=-_2VPbvDDcM

Water Quality Reports can be found at www.vwd.org/waterquality. The 2021 water quality report was posted online on June 30, 2022. Tested water from the Vallecitos Water District consistently meets or exceeds drinking water standards.

DATE: **SEPTEMBER 7, 2022**
TO: **BOARD OF DIRECTORS**
SUBJECT: **REPORT ON DISTRICT WATER QUALITY RELATIVE TO PUBLIC HEALTH GOALS**

BACKGROUND:

California Health and Safety Code §116470 require water utilities with more than 10,000 service connections to prepare a special report once every three years if their water quality constituents have exceeded any Public Health Goals (PHGs). PHGs are non-enforceable goals established by the Cal-EPA's Office of Environmental Health Hazard Assessment (OEHHA). The law also requires that where OEHHA has not adopted a PHG for a constituent, the water suppliers are to use the Maximum Contaminant Level Goals (MCLGs) adopted by USEPA. Only constituents that have a California primary drinking water standard and for which a PHG or MCLG has been established need to be addressed.

The law requires the information be provided at a noticed Public Hearing. The Board set the September 7, 2022, Public Hearing date at its meeting on July 20, 2022.

DISCUSSION:

There are several constituents that are routinely detected in water systems at levels usually well below the drinking water standards for which no PHG nor MCLG has yet been adopted by OEHHA or USEPA including Total Trihalomethanes. These will be addressed in a future required report after a PHG has been adopted. California Health and Safety Code §116470 specifies what information is to be provided in the report.

If a constituent was detected in the District's water supply between 2019 and 2021 at a level exceeding an applicable PHG or MCLG, this report provides the information required. Included is the numerical public health risk[2] associated with the Maximum Contaminant Level (MCL) and the PHG or MCLG, the category or type of risk to health that could be associated with each constituent, the best treatment technology available that could be used to reduce the constituent level, and an estimate of the cost to install that treatment if it is appropriate and feasible.

What Are PHGs?

PHGs are set by the Cal-EPA's OEHHA and are based solely on public health care considerations. None of the practical risk-management factors that are considered by the USEPA or the State Water Resources Control Board (SWRCB) in setting drinking water standards (MCLs) are considered in setting the PHGs. These factors include analytical detection capability, treatment technology available, benefits, and costs. The PHGs are not enforceable and are not required to be met by any public water system. MCLGs are the federal equivalent of PHGs.

Water Quality Data Considered:
All water quality data collected by our water system, including data provided by the Metropolitan Water District of Southern California, the San Diego County Water Authority, Olivenhain Municipal Water District, Carlsbad Desalination Plant, and the City of Oceanside, between 2019 and 2021 for determining compliance with drinking water standards was considered. This data was summarized in our 2019, 2020 and 2021 Consumer Confidence Reports which were mailed to and/or made available electronically for all our customers in compliance with the California Health and Safety Code §116470[1].

Guidelines Followed:
The Association of California Water Agencies (ACWA) formed a workgroup that prepared guidelines for water utilities to use in preparing these required reports. The ACWA guidelines were used in the preparation of this report. No guidance was available from or provided by state regulatory agencies.

Best Available Treatment Technology and Cost Estimates:
Both the USEPA and SWRCB adopt what are known as BATs or Best Available Technologies which are the best-known methods of reducing contaminant levels to the MCL. Implementation of these technologies can be extremely expensive and, depending on the water available, can be cost-prohibitive. Costs can be estimated by utilizing various pilot studies and reports. However, since many PHGs and all MCLGs are set much lower than the MCL, it is not always possible or feasible to determine what treatment is needed to further reduce a constituent downward to or near the PHG or MCLG, many of which are set at zero. Estimating the costs to reduce a constituent to zero is difficult, if not impossible because it may not be possible to verify, by analytical means, that the level has been lowered to zero. In some cases, installing treatment to reduce very low levels of one constituent may have adverse effects on other aspects of water quality.

Constituents Detected That Exceed a PHG or an MCLG:
The following is a discussion of constituents that were detected in one or more of our drinking water sources at levels above the PHG, or if no PHG, above the MCLG.

Arsenic:
Arsenic is a naturally occurring element in the earth's crust and is very widely distributed in the environment. All humans are exposed to microgram quantities of arsenic (inorganic and organic) largely from food (25 to 50 µg/day) and to a lesser degree from drinking water and air. In certain geographical areas, natural mineral deposits may contain large quantities of arsenic, and this may result in higher levels of arsenic in water. Waste chemical disposal sites may also be a source of arsenic contamination of water supplies. The main commercial use of arsenic in the U.S. is in pesticides, mostly herbicides and in wood preservatives. Misapplication or accidental spills of these materials could result in contamination of nearby water supplies. Arsenic does not tend to accumulate in the body at low environmental exposure levels.

Studies in humans have shown considerable individual variability in arsenic toxicity. The levels of arsenic that most people ingest in food and water (ca. 50 µg/day) have not usually been of health concern for non-cancer effects.

The MCL for arsenic is 10 ppb, and the PHG and MCLG for arsenic are 0.004 ppb. The Detection Limit for Reporting Purposes is 2 ppb. The San Diego County Water Authority (SDCWA) detected it in 2019 and 2021. The maximum level detected was 3.0 ppb[3]. The Olivenhain Municipal Water District (OMWD) detected it in 2021. The level detected was 2.8 ppb[3]. The health risk associated with arsenic, and the reason that a drinking water standard was adopted for it, is that people who drink water containing arsenic above the MCL throughout their lifetime could experience an increased risk of getting cancer. OEHHA has set the PHG at 4 ppt (0.004 ppb). The PHG is based on a level that will result in not more than 1 excess cancer in 1 million people who drink 2 liters daily of this water for 70 years. The actual cancer risk may be lower or zero.

The arsenic in our water system comes from our already treated water from SDCWA and OMWD. It is not required for SDCWA or OMWD to lower arsenic levels to the PHG and MCLG levels because it already meets federal and state health-based standards. The best available technology (BAT) cited in the literature to remove arsenic is reverse osmosis. According to the Association of California Water Agencies (ACWA) Cost Estimates for Treatment Technology BAT, it would cost approximately $2.00-$8.04 per 1000 gallons to treat arsenic using RO treatment. These values were assessed using ACWA's 2021 'Suggested Guidelines' for reverse osmosis treatment technology and include annualized capital and O&M costs[5].

Bromate:

Bromate is formed when naturally occurring bromide reacts with ozone during the disinfection process. The District's water wholesalers, the Metropolitan Water District (MWD), and the San Diego County Water Authority (SDCWA) use ozone in their treatment plants to treat drinking water. Since the treatment plants' source water contains naturally occurring bromide, bromate is formed during this process.

The MCL for bromate is 10 ppb and the PHG for bromate is 0.1 ppb. SDCWA and MWD detected bromate above the Detection Limit for Reporting Purposes (DLR) of 5.0. The San Diego County Water Authority (SDCWA) detected it in 2019, 2020, and 2021. The Metropolitan Water District detected it in 2019, 2020, and 2021. The maximum level detected from both agencies was 10.0 ppb[3]. One of the most effective best available technologies for bromate reduction is reverse osmosis (RO). RO treatment reduces the naturally occurring bromide in source water by reducing the natural organic matter (NOM) in water. When this is reduced, the demand for ozone decreases, therefore reducing bromate formation. Because the DLR for bromate is greater than the PHG, it would be difficult to assess the effectiveness of RO treatment in reaching the PHG level.

The bromate in our water system comes from our already treated water from MWD and SDCWA. It is not required for either agency to lower bromate levels to the PHG and MCLG levels because it already meets federal and state health-based standards. The

best available technology (BAT) cited in the literature to remove bromate is reverse osmosis. According to the Association of California Water Agencies (ACWA) Cost Estimates for Treatment Technology BAT, it would cost approximately $2.04-$3.89 per 1000 gallons to treat bromate using RO treatment. These values were assessed using ACWA's 2021 'Suggested Guidelines' for reverse osmosis treatment technology and include annualized capital and O&M costs[5].

Coliform Bacteria:

The MCL for coliform bacteria is 5% positive samples of all samples per month. The MCLG is zero. The reason for the coliform drinking water standard is to minimize the possibility of the water containing pathogens, which are organisms that can cause waterborne disease. Because coliform is only a surrogate indicator of the potential presence of pathogens, it is not possible to state a specific numerical health risk. While USEPA normally sets MCLGs "at a level where no known or anticipated adverse effects on persons would occur", they indicate that they cannot do so with coliforms. Therefore, the MCLG for coliform bacteria has been set at zero by the USEPA.

In the month of June 2020, the District collected 119 samples from our distribution system for coliform analysis. Of these samples, one tested positive for coliform bacteria (0.84%)[3].

The District re-tested the source noted above in accordance with SWRCB guidelines and all sources tested negative for coliform bacteria.

Coliform bacteria are indicator organisms that are ubiquitous in nature and are not generally considered harmful. They are used because of the ease of monitoring and analysis. If a positive sample is found, it indicates a potential problem that needs to be investigated and follow-up sampling done. It is not at all unusual for a system to have an occasional positive sample. It is difficult, if not impossible, to assure that a system will never have a positive sample.

The District operates its distribution system in a manner that assures the best possible water quality. Important measures that have been implemented include supplemental injection of chlorine at the Twin Oaks Reservoir Facility to increase chloramine disinfectant residual in the distribution system, a comprehensive nitrification control program, an effective cross-connection control program, maintenance of a disinfectant residual throughout our system, an effective monitoring program using an advanced SCADA system and maintaining positive pressures in our distribution system. Our system has already taken all the steps described by SWRCB as the "best available technology" for coliform bacteria in Section 64447, Title 22, CCR. Therefore, no estimate of cost has been included.

Copper:

There is no MCL for copper. Instead, the 90th percentile value of all samples from household taps in the distribution system cannot exceed an Action Level of 1.3 mg/l for copper. The PHG for copper is 0.3 mg/l.

The category of health risk for copper is gastrointestinal irritation. Numerical health risk data on copper has not yet been provided by OEHHA, the State agency responsible for providing that information.

Based on extensive sampling of our distribution system in 2021, our 90th percentile value for copper was 0.260 mg/l[3]. Our water system is in full compliance with the Federal and State Lead and Copper Rule. Based on our sampling, it was determined according to State regulatory requirements that we meet the Action Level for copper. Therefore, we are deemed by SWRCB to have "optimized corrosion control" for our system.

In general, optimizing corrosion control is the best available technology to deal with corrosion issues and with any lead or copper findings. We continue to monitor our water quality parameters that relate to corrosivity, such as the pH, hardness, alkalinity, and total dissolved solids and will act if necessary to maintain our system in an "optimized corrosion control" condition.

Since we are meeting the "optimized corrosion control" requirements, it is not prudent to initiate additional corrosion control treatment as it involves the addition of other chemicals and there could be additional water quality issues raised. Therefore, no estimate of cost has been included.

Lead:
There is no MCL for lead. Instead, the 90th percentile value of all samples from household taps in the distribution system cannot exceed an Action Level of 0.015 mg/l for lead. The PHG for lead is 0.0002 mg/l.

The category of health risk for lead is developmental neurotoxicity. Numerical health risk data on lead has not yet been provided by OEHHA, the State agency responsible for providing that information.

Based on extensive sampling of our distribution system in 2021, our 90th percentile value for the lead was 0.0009 mg/l[3]. Our water system is in full compliance with the Federal and State Lead and Copper Rule. Based on our sampling, it was determined according to State regulatory requirements that we meet the Action Level for lead. Therefore, we are deemed by SWRCB to have "optimized corrosion control" for our system.

In general, optimizing corrosion control is the best available technology to deal with corrosion issues and with any lead or copper findings. We continue to monitor our water quality parameters that relate to corrosivity, such as the pH, hardness, alkalinity, total dissolved solids, and will act if necessary to maintain our system in an "optimized corrosion control" condition.

Since we are meeting the "optimized corrosion control" requirements, it is not prudent to initiate additional corrosion control treatment as it involves the addition of other

chemicals and there could be additional water quality issues raised. Therefore, no estimate of cost has been included.

Radiologicals:
The water delivered to Vallecitos by MWD, OMWD and SDCWA exceeded the PHG for several of the radiologicals in 2019, 2020, and 2021. Radiological contaminants are considered by USEPA and SWRCB as carcinogenic or capable of producing cancer.

At the present time, there are no plans by MWD, OMWD or SDCWA to treat their water to remove the radiologicals. If the agencies were to treat their water to remove the radiologicals, they would likely use reverse osmosis, and the cost of the treated water would increase by approximately $838-1336 per acre-foot. This cost estimate is in addition to the current wholesale cost of treated water to the District. These values were assessed using ACWA's 2018 'Suggested Guidelines' for reverse osmosis treatment technology and includes annualized capital and O&M costs[5].

MWD, and other Southern California water agencies, have successfully lobbied for federal legislation that should result in the removal or containment of one or more of the sources of radiologicals in our Colorado River supplies. The primary source of radiologicals is a pile of mine tailings in Moab, Utah. The water from the MWD, OMWD, the SDCWA and the City of Oceanside to Vallecitos is on average approximately 70-80% Colorado River Water with the remaining 20-30% from the State Water Project.

Presently the District proposes that we continue to pursue the removal/containment of the major source of the radiological contamination from mine tailings in Moab, Utah.

Hexavalent Chromium:
Hexavalent chromium is a chemical compound that can occur naturally in the environment or be introduced from industrial activities such as corrosion control or metal plating.

The category of health risk for hexavalent chromium is carcinogenicity (cancer causing). Numerical health risk data on hexavalent chromium has not yet been provided by OEHHA, the State agency responsible for providing that information.

The MCL for hexavalent chromium is 10 ppb and the PHG for hexavalent chromium is 0.02 ppb. The Detection Limit for Reporting Purposes (DLR) is 1.0 ppb[3]. One of the most effective best available technologies for hexavalent chromium reduction is additional treatment facility filtration.

The hexavalent chromium in our water system comes from our already treated water. It is not required for agencies to lower hexavalent chromium levels to the PHG and MCLG levels because it already meets federal and state health-based standards. The best available technology (BAT) cited in the literature to remove hexavalent chromium is additional treatment. According to the Association of California Water Agencies (ACWA) Cost Estimates for Treatment Technology BAT, it would cost approximately

$1.91-$11.96 per 1000 gallons to treat hexavalent chromium using additional treatment. These values were assessed using ACWA's 2021 'Suggested Guidelines' for coagulation filtration treatment technology and include annualized capital and O&M costs[5].

N-Nitrosodimethylamine (NDMA):

NDMA is a chemical that is a byproduct of manufacturing processes, component of tobacco smoke. Formerly used as a component of rocket fuels.

The category of health risk for NDMA is carcinogenicity (cancer-causing). Numerical health risk data on NDMA has not yet been provided by OEHHA, the State agency responsible for providing that information. This contaminant is not currently regulated in drinking water.

The Notification Level (NL) for NDMA is 10 ppt and the PHG for NDMA is 3 ppt. The Detection Limit for Reporting Purposes (DLR) is 2 ppt[3]. One of the most effective and best available technologies for NDMA reduction is additional treatment facility filtration.

The NDMA in our water system comes from our already treated water. It is not required for agencies to lower NDMA levels to the PHG and MCLG levels because it already meets federal and state health-based standards. NDMA is a new contaminant monitored in drinking water. The Association of California Water Agencies has not established the best available technology (BAT) to remove NDMA. This information was assessed using ACWA's 2021 'Suggested Guidelines'.

Trihalomethanes:

These four trihalomethanes established PHGs starting in 2020; they are bromodichloromethane, bromoform, chloroform, and dibromochloromethane. The four regulated THMs are byproducts produced during the disinfection of water by chlorination or chloramination. The amount of each THM present in various drinking water supplies is dependent on factors such as organic content, temperature, salinity, pH of the water, and type of chlorinating agent.

The category of health risk for these four THMs is carcinogenicity (cancer-causing). There is no MCL for these four THMs. The PHGs for the four THMs are in ppb; bromodichloromethane is 0.06 ppb, bromoform is 0.5 ppb, chloroform is 0.4 ppb and dibromochloromethane is 0.1 ppb. The Detection Limit for Reporting Purposes (DLR) is 1.0 ppb[3].

These four trihalomethanes in our water system come from our already treated water.
The risks to health from these by-products are extremely low in comparison with the risks associated with inadequate disinfection.[6] The best available technology (BAT) cited in the literature to reduce these four THMs is additional treatment technology. According to the Association of California Water Agencies (ACWA) Cost Estimates for Treatment Technology BAT, it would cost approximately $1.51 per 1000 gallons to reduce these four THMs using additional treatment. These values were assessed using

ACWA's 2021 'Suggested Guidelines' for granular activated carbon treatment technology and include annualized capital and O&M costs[5].

Fiscal Impact:
There is no fiscal impact associated with the recommended action.

Recommendations for Further Action:
No additional action by the District is recommended at this time and staff recommends that the Board accept and file this report.

References:

1 Excerpt from California Health and Safety Code: Section §116470(b) (SWRCB)

2 Health Risk Information for PHG Exceedance Reports (OEHHA)

3 Excerpts from 2019, 2020, and 2021 Metropolitan Water District of Southern California - Water Quality Reports; Excerpts from 2019, 2020, and 2021 San Diego County Water Authority - Water Quality Reports; Excerpts from 2019, 2020, and 2021 Oceanside Treatment Plant – Water Quality Reports; Excerpts from 2019, 2020 and 2021 Olivenhain Municipal Water District – Water quality Reports; Excerpts from 2019, 2020 and 2021 Carlsbad Desalination Plant – Water Quality Reports; Excerpts from 2019, 2020 and 2021 Vallecitos Water District - Monthly Summary of Distribution System Coliform Monitoring for June 2020; Vallecitos Water District – Lead and Copper Report: 2021.

4 California MCLs and PHGs and Federal MCLGs (ACWA)

5 Cost Estimates for Treatment Technologies (ACWA)

6 Director Zeise, Ph.D., February 2020, OEHHA website, accessed 24 June 2022. Paste URL below into your browser for a copy of the report:

http://oehha.ca.gov/media/downloads/water/chemicals/phg/thmsphg020220.pdf

Health and Safety Code §116470

a) As a condition of its operating permit, every public water system shall annually prepare a consumer confidence report and mail or deliver a copy of that report to each customer, other than an occupant, as defined in Section 799.28 of the Civil Code, of a recreational vehicle park. A public water system in a recreational vehicle park with occupants as defined in Section 799.28 of the Civil Code shall prominently display on a bulletin board at the entrance to or in the office of the park, and make available upon request, a copy of the report. The report shall include all of the following information:

(1) The source of the water purveyed by the public water system.

(2) A brief and plainly worded definition of the terms "maximum contaminant level," "primary drinking water standard," and "public health goal."

(3) If any regulated contaminant is detected in public drinking water supplied by the system during the past year, the report shall include all of the following information:

(A) The level of the contaminant found in the drinking water, and the corresponding public health goal and primary drinking water standard for that contaminant.

(B) Any violations of the primary drinking water standard that have occurred as a result of the presence of the contaminant in the drinking water and a brief and plainly worded statement of health concerns that resulted in the regulation of that contaminant.

(C) The public water system's address and phone number to enable customers to obtain further information concerning contaminants and potential health effects.

(4) Information on the levels of unregulated contaminants, if any, for which monitoring is required pursuant to state or federal law or regulation.

(5) Disclosure of any variances or exemptions from primary drinking water standards granted to the system and the basis therefor.

(b) On or before July 1, 1998, and every three years thereafter, public water systems serving more than 10,000 service connections that detect one or more contaminants in drinking water that exceed the applicable public health goal, shall prepare a brief written report in plain language that does all of the following:

(1) Identifies each contaminant detected in drinking water that exceeds the applicable public health goal.

(2) Discloses the numerical public health risk, determined by the office, associated with the maximum contaminant level for each contaminant identified in paragraph (1) and the numerical public health risk determined by the office associated with the public health goal for that contaminant.

(3) Identifies the category of risk to public health, including, but not limited to, carcinogenic, mutagenic, teratogenic, and acute toxicity, associated with exposure to the contaminant in drinking water, and includes a brief plainly worded description of these terms.

(4) Describes the best available technology, if any is then available on a commercial basis, to remove the contaminant or reduce the concentration of the contaminant. The public water system may, solely at its own discretion, briefly describe actions that have been taken on its own, or by other entities, to prevent the introduction of the contaminant into drinking water supplies.

(5) Estimates the aggregate cost and the cost per customer of utilizing the technology described in paragraph (4), if any, to reduce the concentration of that contaminant in drinking water to a level at or below the public health goal.

(6) Briefly describes what action, if any, the local water purveyor intends to take to reduce the concentration of the contaminant in public drinking water supplies and the basis for that decision.

(c) Public water systems required to prepare a report pursuant to subdivision (b) shall hold a public hearing for the purpose of accepting and responding to public comment on the report. Public water systems may hold the public hearing as part of any regularly scheduled meeting.

(d) The department shall not require a public water system to take any action to reduce or eliminate any exceedance of a public health goal.

(e) Enforcement of this section does not require the department to amend a public water system's operating permit.

(f) Pending adoption of a public health goal by the Office of Environmental Health Hazard Assessment pursuant to subdivision (c) of Section 116365, and in lieu thereof, public water systems shall use the national maximum contaminant level goal adopted by the United States Environmental Protection Agency for the corresponding contaminant for purposes of complying with the notice and hearing requirements of this section.

(g) This section is intended to provide an alternative form for the federally required consumer confidence report as authorized by 42 U.S.C. Section 300g-3(c).

Health Risk Information for Public Health Goal Exceedance Reports

Prepared by

Office of Environmental Health Hazard Assessment
California Environmental Protection Agency

February 2022

NEW for the 2022 Report: New in this document are an updated Public Health Goal(PHG) for 1,2-dibromo-3-chloropropane (DBCP) and newly established PHGs for the trihalomethanes bromodichloromethane, bromoform, chloroform, and dibromochloromethane.

Background: Under the Calderon-Sher Safe Drinking Water Act of 1996 (the Act), public water systems with more than 10,000 service connections are required to prepare a report every three years for contaminants that exceed their respective PHGs.[1]This document contains health risk information on regulated drinking water contaminants to assist public water systems in preparing these reports. A PHG is the concentration of a contaminant in drinking water that poses no significant health risk if consumed for a lifetime. PHGs are developed and published by the Office of Environmental Health Hazard Assessment (OEHHA) using current risk assessment principles, practices and methods.[2]

The water system's report is required to identify the health risk category (e.g., carcinogenicity or neurotoxicity) associated with exposure to each regulated contaminant in drinking water and to include a brief, plainly worded description of these risks. The report is also required to disclose the numerical public health risk, if available,associated with the California Maximum Contaminant Level (MCL) and with the PHG foreach contaminant. This health risk information document is prepared by OEHHA every three years to assist the water systems in providing the required information in their reports.

[1] Health and Safety Code Section 116470(b)
[2] Health and Safety Code Section 116365

Numerical health risks: Table 1 presents health risk categories and cancer risk valuesfor chemical contaminants in drinking water that have PHGs.

The Act requires that OEHHA publish PHGs based on health risk assessments using the most current scientific methods. As defined in statute, PHGs for non-carcinogenic chemicals in drinking water are set at a concentration "at which no known or anticipatedadverse health effects will occur, with an adequate margin of safety." For carcinogens, PHGs are set at a concentration that "does not pose any significant risk to health." PHGs provide one basis for revising MCLs, along with cost and technological feasibility.OEHHA has been publishing PHGs since 1997 and the entire list published to date is shown in Table 1.

Table 2 presents health risk information for contaminants that do not have PHGs but have state or federal regulatory standards. The Act requires that, for chemical contaminants with California MCLs that do not yet have PHGs, water utilities use the federal Maximum Contaminant Level Goal (MCLG) for the purpose of complying with the requirement of public notification. MCLGs, like PHGs, are strictly health based and include a margin of safety. One difference, however, is that the MCLGs for carcinogensare set at zero because the US Environmental Protection Agency (US EPA) assumes there is no absolutely safe level of exposure to such chemicals. PHGs, on the other hand, are set at a level considered to pose no *significant* risk of cancer; this is usually no more than a one-in-one-million excess cancer risk (1×10^{-6}) level for a lifetime of exposure. In Table 2, the cancer risks shown are based on the US EPA's evaluations.

For more information on health risks: The adverse health effects for each chemicalwith a PHG are summarized in a PHG technical support document. These documentsare available on the OEHHA website (https://oehha.ca.gov/water/public-health-goals- phgs).

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Alachlor	carcinogenicity (causes cancer)	0.004	NA[5,6]	0.002	NA
Aluminum	neurotoxicity and immunotoxicity (harms the nervous and immune systems)	0.6	NA	1	NA
Antimony	hepatotoxicity (harms the liver)	0.001	NA	0.006	NA
Arsenic	carcinogenicity (causes cancer)	0.000004 (4×10^{-6})	1×10^{-6} (one per million)	0.01	2.5×10^{-3} (2.5 per thousand)
Asbestos	carcinogenicity (causes cancer)	7 MFL[7] (fibers >10 microns in length)	1×10^{-6}	7 MFL (fibers >10 microns in length)	1×10^{-6} (one per million)
Atrazine	carcinogenicity (causes cancer)	0.00015	1×10^{-6}	0.001	7×10^{-6} (seven per million)

[1] Based on the OEHHA PHG technical support document unless otherwise specified. The categories are the hazard traits defined by OEHHA for California's Toxics Information Clearinghouse (online at: https://oehha.ca.gov/media/downloads/risk-assessment//gcregtext011912.pdf).
[2] mg/L = milligrams per liter of water or parts per million (ppm)
[3] Cancer Risk = Upper bound estimate of excess cancer risk from lifetime exposure. Actual cancer risk may be lower or zero. 1×10^{-6} means one excess cancer case per million people exposed.
[4] MCL = maximum contaminant level.
[5] NA = not applicable. Cancer risk cannot be calculated.
[6] The PHG for alachlor is based on a threshold model of carcinogenesis and is set at a level that is believed to be without any significant cancer risk to individuals exposed to the chemical over a lifetime.
[7] MFL = million fibers per liter of water.

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Barium	cardiovascular toxicity (causes high blood pressure)	2	NA	1	NA
Bentazon	hepatotoxicity and digestive system toxicity (harms the liver, intestine, and causes body weight effects[8])	0.2	NA	0.018	NA
Benzene	carcinogenicity (causes leukemia)	0.00015	1×10^{-6}	0.001	7×10^{-6} (seven per million)
Benzo[a]pyrene	carcinogenicity (causes cancer)	0.000007 (7×10^{-6})	1×10^{-6}	0.0002	3×10^{-5} (three per hundred thousand)
Beryllium	digestive system toxicity (harms the stomach or intestine)	0.001	NA	0.004	NA
Bromate	carcinogenicity (causes cancer)	0.0001	1×10^{-6}	0.01	1×10^{-4} (one per ten thousand)
Cadmium	nephrotoxicity (harms the kidney)	0.00004	NA	0.005	NA
Carbofuran	reproductive toxicity (harms the testis)	0.0007	NA	0.018	NA

[8] Body weight effects are an indicator of general toxicity in animal studies.

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Carbon tetrachloride	carcinogenicity (causes cancer)	0.0001	1×10^{-6}	0.0005	5×10^{-6} (five per million)
Chlordane	carcinogenicity (causes cancer)	0.00003	1×10^{-6}	0.0001	3×10^{-6} (three per million)
Chlorite	hematotoxicity (causes anemia) neurotoxicity (causes neurobehavioral effects)	0.05	NA	1	NA
Chromium, hexavalent	carcinogenicity (causes cancer)	0.00002	1×10^{-6}	none	NA
Copper	digestive system toxicity (causes nausea, vomiting, diarrhea)	0.3	NA	1.3 (AL[9])	NA
Cyanide	neurotoxicity (damages nerves) endocrine toxicity (affects the thyroid)	0.15	NA	0.15	NA
Dalapon	nephrotoxicity (harms the kidney)	0.79	NA	0.2	NA
Di(2-ethylhexyl) adipate (DEHA)	developmental toxicity (disrupts development)	0.2	NA	0.4	NA

[9] AL = action level. The action levels for copper and lead refer to a concentration measured at the tap. Much of the copper and lead in drinking water is derived from household plumbing (The Lead and Copper Rule, Title 22, California Code of Regulations [CCR] section 64672.3).

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Di(2-ethylhexyl) phthalate (DEHP)	carcinogenicity (causes cancer)	0.012	1×10^{-6}	0.004	3×10^{-7} (three per ten million)
1,2-Dibromo-3-chloropropane (DBCP)	carcinogenicity (causes cancer)	0.000003 ($3x10^{-6}$)	1×10^{-6}	0.0002	7×10^{-5} (seven per hundred thousand)
1,2-Dichloro-benzene (*o*-DCB)	hepatotoxicity (harms the liver)	0.6	NA	0.6	NA
1,4-Dichloro-benzene (*p*-DCB)	carcinogenicity (causes cancer)	0.006	1×10^{-6}	0.005	8×10^{-7} (eight per ten million)
1,1-Dichloro-ethane (1,1-DCA)	carcinogenicity (causes cancer)	0.003	1×10^{-6}	0.005	2×10^{-6} (two per million)
1,2-Dichloro-ethane (1,2-DCA)	carcinogenicity (causes cancer)	0.0004	1×10^{-6}	0.0005	1×10^{-6} (one per million)
1,1-Dichloro-ethylene (1,1-DCE)	hepatotoxicity (harms the liver)	0.01	NA	0.006	NA
1,2-Dichloro-ethylene, cis	nephrotoxicity (harms the kidney)	0.013	NA	0.006	NA
1,2-Dichloro-ethylene, trans	immunotoxicity (harms the immune system)	0.05	NA	0.01	NA

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Dichloromethane (methylene chloride)	carcinogenicity (causes cancer)	0.004	1×10^{-6}	0.005	1×10^{-6} (one per million)
2,4-Dichloro-phenoxyacetic acid (2,4-D)	hepatotoxicity and nephrotoxicity (harms the liver and kidney)	0.02	NA	0.07	NA
1,2-Dichloro-propane (propylene dichloride)	carcinogenicity (causes cancer)	0.0005	1×10^{-6}	0.005	1×10^{-5} (one per hundred thousand)
1,3-Dichloro-propene (Telone II®)	carcinogenicity (causes cancer)	0.0002	1×10^{-6}	0.0005	2×10^{-6} (two per million)
Dinoseb	reproductive toxicity (harms the uterus and testis)	0.014	NA	0.007	NA
Diquat	ocular toxicity (harms the eye) developmental toxicity (causes malformation)	0.006	NA	0.02	NA
Endothall	digestive system toxicity (harms the stomach or intestine)	0.094	NA	0.1	NA
Endrin	neurotoxicity (causes convulsions) hepatotoxicity (harms the liver)	0.0003	NA	0.002	NA
Ethylbenzene (phenylethane)	hepatotoxicity (harms the liver)	0.3	NA	0.3	NA

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Ethylene dibromide (1,2-Dibromoethane)	carcinogenicity (causes cancer)	0.00001	1×10^{-6}	0.00005	5×10^{-6} (five per million)
Fluoride	musculoskeletal toxicity (causes tooth mottling)	1	NA	2	NA
Glyphosate	nephrotoxicity (harms the kidney)	0.9	NA	0.7	NA
Heptachlor	carcinogenicity (causes cancer)	0.000008 (8×10^{-6})	1×10^{-6}	0.00001	1×10^{-6} (one per million)
Heptachlor epoxide	carcinogenicity (causes cancer)	0.000006 (6×10^{-6})	1×10^{-6}	0.00001	2×10^{-6} (two per million)
Hexachloroben-zene	carcinogenicity (causes cancer)	0.00003	1×10^{-6}	0.001	3×10^{-5} (three per hundred thousand)
Hexachloro-cyclopentadiene (HCCPD)	digestive system toxicity (causes stomach lesions)	0.002	NA	0.05	NA
Lead	developmental neurotoxicity (causes neurobehavioral effects in children) cardiovascular toxicity (causes high blood pressure) carcinogenicity (causes cancer)	0.0002	$<1\times10^{-6}$ (PHG is not based on this effect)	0.015 (AL[9])	2×10^{-6} (two per million)

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Lindane (γ-BHC)	carcinogenicity (causes cancer)	0.000032	1×10^{-6}	0.0002	6×10^{-6} (six per million)
Mercury (inorganic)	nephrotoxicity (harms the kidney)	0.0012	NA	0.002	NA
Methoxychlor	endocrine toxicity (causes hormone effects)	0.00009	NA	0.03	NA
Methyl tertiary-butyl ether (MTBE)	carcinogenicity (causes cancer)	0.013	1×10^{-6}	0.013	1×10^{-6} (one per million)
Molinate	carcinogenicity (causes cancer)	0.001	1×10^{-6}	0.02	2×10^{-5} (two per hundred thousand)
Monochloro-benzene (chlorobenzene)	nephrotoxicity (harms the kidney)	0.07	NA	0.07	NA
Nickel	developmental toxicity (causes increased neonatal deaths)	0.012	NA	0.1	NA
Nitrate	hematotoxicity (causes methemoglobinemia)	45 as nitrate	NA	10 as nitrogen (=45 as nitrate)	NA
Nitrite	hematotoxicity (causes methemoglobinemia)	3 as nitrite	NA	1 as nitrogen (=3 as nitrite)	NA

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Nitrate and Nitrite	hematotoxicity (causes methemoglobinemia)	10 as nitrogen[10]	NA	10 as nitrogen	NA
N-nitroso-dimethyl-amine (NDMA)	carcinogenicity (causes cancer)	0.000003 (3×10^{-6})	1×10^{-6}	none	NA
Oxamyl	general toxicity (causes body weight effects)	0.026	NA	0.05	NA
Pentachloro-phenol (PCP)	carcinogenicity (causes cancer)	0.0003	1×10^{-6}	0.001	3×10^{-6} (three per million)
Perchlorate	endocrine toxicity (affects the thyroid) developmental toxicity (causes neurodevelop-mental deficits)	0.001	NA	0.006	NA
Picloram	hepatotoxicity (harms the liver)	0.166	NA	0.5	NA
Polychlorinated biphenyls (PCBs)	carcinogenicity (causes cancer)	0.00009	1×10^{-6}	0.0005	6×10^{-6} (six per million)
Radium-226	carcinogenicity (causes cancer)	0.05 pCi/L	1×10^{-6}	5 pCi/L (combined $Ra^{226+228}$)	1×10^{-4} (one per ten thousand)

[10] The joint nitrate/nitrite PHG of 10 mg/L (10 ppm, expressed as nitrogen) does not replace the individual values, and the maximum contribution from nitrite should not exceed 1 mg/L nitrite-nitrogen.

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Radium-228	carcinogenicity (causes cancer)	0.019 pCi/L	1×10^{-6}	5 pCi/L (combined $Ra^{226+228}$)	3×10^{-4} (three per ten thousand)
Selenium	integumentary toxicity (causes hair loss and nail damage)	0.03	NA	0.05	NA
Silvex (2,4,5-TP)	hepatotoxicity (harms the liver)	0.003	NA	0.05	NA
Simazine	general toxicity (causes body weight effects)	0.004	NA	0.004	NA
Strontium-90	carcinogenicity (causes cancer)	0.35 pCi/L	1×10^{-6}	8 pCi/L	2×10^{-5} (two per hundred thousand)
Styrene (vinylbenzene)	carcinogenicity (causes cancer)	0.0005	1×10^{-6}	0.1	2×10^{-4} (two per ten thousand)
1,1,2,2-Tetrachloro-ethane	carcinogenicity (causes cancer)	0.0001	1×10^{-6}	0.001	1×10^{-5} (one per hundred thousand)
2,3,7,8-Tetra-chlorodibenzo-*p*-dioxin (TCDD, or dioxin)	carcinogenicity (causes cancer)	5×10^{-11}	1×10^{-6}	3×10^{-8}	6×10^{-4} (six per ten thousand)

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Tetrachloro-ethylene (perchloro-ethylene, or PCE)	carcinogenicity (causes cancer)	0.00006	1×10^{-6}	0.005	8×10^{-5} (eight per hundred thousand)
Thallium	integumentary toxicity (causes hair loss)	0.0001	NA	0.002	NA
Thiobencarb	general toxicity (causes body weight effects) hematotoxicity (affects red blood cells)	0.042	NA	0.07	NA
Toluene (methylbenzene)	hepatotoxicity (harms the liver) endocrine toxicity (harms the thymus)	0.15	NA	0.15	NA
Toxaphene	carcinogenicity (causes cancer)	0.00003	1×10^{-6}	0.003	1×10^{-4} (one per ten thousand)
1,2,4-Trichloro-benzene	endocrine toxicity (harms adrenal glands)	0.005	NA	0.005	NA
1,1,1-Trichloro-ethane	neurotoxicity (harms the nervous system), reproductive toxicity (causes fewer offspring) hepatotoxicity (harms the liver) hematotoxicity (causes blood effects)	1	NA	0.2	NA

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
1,1,2-Trichloro-ethane	carcinogenicity (causes cancer)	0.0003	$1x10^{-6}$	0.005	2×10^{-5} (two per hundred thousand)
Trichloro-ethylene (TCE)	carcinogenicity (causes cancer)	0.0017	1×10^{-6}	0.005	3×10^{-6} (three per million)
Trichlorofluoro-methane (Freon 11)	accelerated mortality (increase in early death)	1.3	NA	0.15	NA
1,2,3-Trichloro-propane (1,2,3-TCP)	carcinogenicity (causes cancer)	0.0000007 (7×10^{-7})	$1x10^{-6}$	0.000005 (5×10^{-6})	7×10^{-6} (seven per million)
1,1,2-Trichloro-1,2,2-trifluoro-ethane (Freon 113)	hepatotoxicity (harms the liver)	4	NA	1.2	NA
Trihalomethanes: Bromodichloro-methane	carcinogenicity (causes cancer)	0.00006	$1x10^{-6}$	0.080*	1.3×10^{-3} (1.3 per thousand)[11]
Trihalomethanes: Bromoform	carcinogenicity (causes cancer)	0.0005	$1x10^{-6}$	0.080*	2×10^{-4} (two per ten thousand)[12]

* For total trihalomethanes (the sum of bromodichloromethane, bromoform, chloroform, and dibromochloromethane). There are no MCLs for individual trihalomethanes.

[11] Based on 0.080 mg/L bromodichloromethane; the risk will vary with different combinations and ratios of the other trihalomethanes in a particular sample.

[12] Based on 0.080 mg/L bromoform; the risk will vary with different combinations and ratios of the other trihalomethanes in a particular sample.

Table 1: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category[1]	California PHG (mg/L)[2]	Cancer Risk[3] at the PHG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Trihalomethanes: Chloroform	carcinogenicity (causes cancer)	0.0004	1×10^{-6}	0.080*	2×10^{-4} (two per ten thousand)[13]
Trihalomethanes: Dibromochloro-methane	carcinogenicity (causes cancer)	0.0001	1×10^{-6}	0.080*	8×10^{-4} (eight per ten thousand)[14]
Tritium	carcinogenicity (causes cancer)	400 pCi/L	1×10^{-6}	20,000 pCi/L	5×10^{-5} (five per hundred thousand)
Uranium	carcinogenicity (causes cancer)	0.43 pCi/L	1×10^{-6}	20 pCi/L	5×10^{-5} (five per hundred thousand)
Vinyl chloride	carcinogenicity (causes cancer)	0.00005	1×10^{-6}	0.0005	1×10^{-5} (one per hundred thousand)
Xylene	neurotoxicity (affects the senses, mood, and motor control)	1.8 (single isomer or sum of isomers)	NA	1.75 (single isomer or sum of isomers)	NA

* For total trihalomethanes (the sum of bromodichloromethane, bromoform, chloroform, and dibromochloromethane). There are no MCLs for individual trihalomethanes.

[13] Based on 0.080 mg/L chloroform; the risk will vary with different combinations and ratios of the other trihalomethanes in a particular sample.

[14] Based on 0.080 mg/L dibromochloromethane; the risk will vary with different combinations and ratios of the other trihalomethanes in a particular sample.

Table 2: Health Risk Categories and Cancer Risk Values for Chemicals without California Public Health Goals

Chemical	Health Risk Category[1]	US EPA MCLG[2] (mg/L)	Cancer Risk[3] at the MCLG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Disinfection byproducts (DBPs)					
Chloramines	acute toxicity (causes irritation) digestive system toxicity (harms the stomach) hematotoxicity (causes anemia)	4[5,6]	NA[7]	none	NA
Chlorine	acute toxicity (causes irritation) digestive system toxicity (harms the stomach)	4[5,6]	NA	none	NA
Chlorine dioxide	hematotoxicity (causes anemia) neurotoxicity (harms the nervous system)	0.8[5,6]	NA	none	NA
Disinfection byproducts: haloacetic acids (HAA5)					
Monochloroacetic acid (MCA)	general toxicity (causes body and organ weight changes[8])	0.07	NA	none	NA

[1] Health risk category based on the US EPA MCLG document or California MCL document unless otherwise specified.
[2] MCLG = maximum contaminant level goal established by US EPA.
[3] Cancer Risk = Upper estimate of excess cancer risk from lifetime exposure. Actual cancer risk may be lower or zero. 1×10^{-6} means one excess cancer case per million people exposed.
[4] California MCL = maximum contaminant level established by California.
[5] Maximum Residual Disinfectant Level Goal, or MRDLG.
[6] The federal Maximum Residual Disinfectant Level (MRDL), or highest level of disinfectant allowed in drinking water, is the same value for this chemical.
[7] NA = not available.
[8] Body weight effects are an indicator of general toxicity in animal studies.

Table 2: Health Risk Categories and Cancer Risk Values for Chemicals without California Public Health Goals

Chemical	Health Risk Category[1]	US EPA MCLG[2] (mg/L)	Cancer Risk[3] at the MCLG	California MCL[4] (mg/L)	Cancer Risk at the California MCL
Dichloroacetic acid (DCA)	Carcinogenicity (causes cancer)	0	0	none	NA
Trichloroacetic acid (TCA)	hepatotoxicity (harms the liver)	0.02	NA	none	NA
Monobromoacetic acid (MBA)	NA	none	NA	none	NA
Dibromoacetic acid (DBA)	NA	none	NA	none	NA
Total haloacetic acids (sum of MCA, DCA, TCA, MBA, and DBA)	general toxicity, hepatotoxicity and carcinogenicity (causes body and organ weight changes, harms the liver and causes cancer)	none	NA	0.06	NA
Radionuclides					
Gross alpha particles[9]	carcinogenicity (causes cancer)	0 (^{210}Po included)	0	15 pCi/L[10] (includes radium but not radon and uranium)	up to $1x10^{-3}$ (for ^{210}Po, the most potent alpha emitter)

[9] MCLs for gross alpha and beta particles are screening standards for a group of radionuclides. Corresponding PHGs were not developed for gross alpha and beta particles. See the OEHHA memoranda discussing the cancer risks at these MCLs at http://www.oehha.ca.gov/water/reports/grossab.html.

[10] pCi/L = picocuries per liter of water.

Reference No. 3
Contaminants Exceeding the Public Health Goals & Maximum Contaminant Level Goals

2019 Water Quality Effluent Report from SDCWA, MWD, OTP, Carlsbad Desal, OMWD and VWD Distribution												
						SDCWA	MWD	OTP	Desal	OMWD	VWD	
Parameter	Units	State or Federal MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average							
Uranium	pCi/L	20	0.43	1	Range	1.0 - 1.1	ND - 3	NRA	ND	NR	NA	Erosion of natural deposits
					Average	1.1	ND	2.0				
Arsenic	ppb	10	0.004	2	Single	NRA	ND	NRA	ND	NR	NA	Natural deposits erosion, glass and electronics production wastes
					Sample	3		1.1				
Bromate	ppb	10	0.1	5.0	Range	2 - 4.8	ND - 10	NR	NA	NR	NA	By-product of drinking water ozonation
					Average	3.1	2.8					
NDMA	ppt	NL = 10	3	2	Range	NRA	3.9	NR	NA	NR	NA	By-product of drinking water chloramination; industrial processes
					Average	2.3						
Copper	ppb	AL = 1,300	300	5	90th	Single Sample	ND	138	ND	284	270	House pipes internal corrosion; erosion of natural deposits; leaching
					Percentile	2.4						
Lead	ppb	AL = 15	0.2	5	90th Percentile	ND	ND	0	ND	0	1.2	House pipes internal corrosion; erosion of natural deposits; leaching
Total Coliforms	%	5.0	(0)	NA	Range	ND	NA	ND	ND	ND	ND	Naturally present in the environment
					Average							
Gross Alpha	pCi/L	15	(0)	3	Range	ND	ND - 4	NRA	ND	NR	NA	Erosion of natural deposits
					Average		ND	2.1				
Gross Beta	pCi/L	20	0.43	4	Range	ND - 3.5	ND - 5	NA	ND	NR	NA	Decay of natural and man - made deposits
					Average	2.3	ND					
Radium-226	pCi/L	NA	0.05	1	Range	ND	ND	NR	ND	NR	NR	Erosion of natural deposits
					Average							
Radium-228	pCi/L	NA	0.019	1	Range	ND	ND	NR	ND	NR	NR	Erosion of natural deposits
					Average							
Combined Radium-226 + 228	pCi/L	5	(0)	NA	Range	ND	ND	NR	-0.0891 - 0.446	NR	NR	Erosion of natural deposits
					Average				0.206			
Strontium-90	pCi/L	8	0.35	2	Range	ND	ND	NR	ND	NR	NR	Decay of natural and man - made deposits
					Average							
Chromium, Hex	ppb	NA	0.02	1	Range	0.06 - 0.49	ND	NR	NA	NR	NA	By-product of industrial process
					Average	0.27						

Contaminants Exceeding the Public Health Goals & Maximum Contaminant Level Goals

2020 Water Quality Effluent Report from SDCWA, MWD, OTP, Carlsbad Desal, OMWD and VWD Distribution

Parameter	Units	State or Federal MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	SDCWA	MWD	OTP	Desal	OMWD	VWD	
Uranium	pCi/L	20	0.43	1	Range	Single Sample	ND -2	NA	ND	NR	NA	Erosion of natural deposits.
					Average	1	2	1.1				
Arsenic	ppb	10	0.004	2	Single Sample	ND	ND	NA	ND	NR	NA	Natural deposits erosion, glass and electronics production wastes
								1.1				
Bromate	ppb	10	0.1	5.0	Range	ND -7.4	ND - 5.6	NR	NA	NR	NA	By-product of drinking water ozonation
					Average	2.8	2.5					
NDMA	ppt	NL = 10	3	2	Range	Single Sample	4.2	NR	NA	NR	NA	By-product of drinking water chloramination; industrial processes
					Average	ND						
Copper	ppb	AL = 1,300	300	5	90th Percentile	ND	ND	138	ND	284	NA	House pipes internal corrosion; erosion of natural deposits; leaching
Lead	ppb	AL = 15	0.2	5	90th Percentile	ND	ND	0	ND	ND	NA	House pipes internal corrosion; erosion of natural deposits; leaching
Total Coliforms	%	5.0	(0)	NA	Range	ND	NA	ND	ND	ND	ND - Present	Naturally present in the environment
					Average						0.14	
Gross Alpha	pCi/L	15	(0)	3	Range	ND	ND - 3	ND	ND	NR	NA	Erosion of natural deposits
					Average		ND					
Gross Beta	pCi/L	20	0.43	4	Range	ND	ND - 5	NA	ND	NR	NA	Decay of natural and man - made deposits
					Average		ND					
Radium-226	pCi/L	NA	0.05	1	Range	ND	ND	NR	ND	NR	NR	Erosion of natural deposits
					Average							
Radium-228	pCi/L	NA	0.019	1	Range	ND	ND - 1	NR	ND	NR	NR	Erosion of natural deposits
					Average		ND					
Combined Radium-226 + 228	pCi/L	5	(0)	NA	Range	ND	ND	NA	-0.00109 - 0.712	NR	NR	Erosion of natural deposits
					Average			0.42	0.094			
Strontium-90	pCi/L	8	0.35	2	Range	ND	NR	NR	ND	NR	NR	Decay of natural and man - made deposits
					Average							
Chromium, Hex	ppb	NA	0.02	1	Range	ND	ND	NR	NA	NR	NA	By-product of industrial process
					Average							
Dibromo- (DBCP) Chloropropane	ppt	200	3	10	Range	ND	ND	NR	ND	NR	NR	Banned nematocide that may still be present in soils.
					Average							
Bromodichloro-methane	ppb	NA	0.06	1	Range	NR	NR	NR	NR	NR	2.3 - 12	By-product of drinking water chloronation.
					Average						11	
Bromoform	ppb	NA	0.5	1	Range	NR	NR	NR	NR	NR	1.5 - 9.9	By-product of drinking water chloronation.
					Average						5.6	
Chloroform	ppb	NA	0.4	1	Range	NR	NR	NR	NR	NR	1.4 - 10	By-product of drinking water chloronation.
					Average						8.1	
Dibromochloro-methane	ppb	NA	0.1	1	Range	NR	NR	NR	NR	NR	3.6 - 16	By-product of drinking water chloronation.
					Average						13.5	

Reference No. 3 (continued)
Contaminants Exceeding the Public Health Goals & Maximum Contaminant Level Goals

2021 Water Quality Effluent Report from SDCWA, MWD, OTP, Carlsbad Desal, OMWD and VWD Distribution												
Parameter	Units	State or Federal MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range / Average	SDCWA	MWD	OTP	Desal	OMWD	VWD	
Uranium	pCi/L	20	0.43	1	Range	2.3 - 3	ND - 2	NA	ND	2.3	NA	
					Average	2.6	2	1.10		2.3		Erosion of natural deposits
Arsenic	ppb	10	0.004	2	Single Sample	2.1	ND	NA	ND	2.8	NA	Natural deposits erosion, glass and electronics production wastes
					Average			1.1		2.8		
Bromate	ppb	10	0.1	5.0	Range	ND - 6	ND - 2.5	NR	NA	NR	NA	
					Average	2	1					By-product of drinking water ozonation
NDMA	ppt	NL = 10	3	2	Range	Single Sample	ND	NR	NA	NR	NA	By-product of drinking water chloramination; industrial processes
					Average	ND						
Copper	ppb	AL = 1,300	300	5	90th Percentile	ND	ND	245	ND	NA	260	House pipes internal corrosion; erosion of natural deposits; leaching
Lead	ppb	AL = 15	0.2	5	90th Percentile	ND	ND	ND	ND	NA	0.9	House pipes internal corrosion; erosion of natural deposits; leaching
Total Coliforms	%	5.0	(0)	NA	Range / Average	ND	NA	ND	0	ND	ND	Naturally present in the environment
Gross Alpha	pCi/L	15	(0)	3	Range	ND - 4	ND - 3	ND	ND	4.7	NA	Erosion of natural deposits
					Average	ND	ND			4.7		
Gross Beta	pCi/L	20	0.43	4	Range	4.9 - 5.1	ND - 7	NA	ND	NR	NA	Decay of natural and man - made deposits
					Average	5	4					
Radium-226	pCi/L	NA	0.05	1	Range / Average	ND	ND	NR	ND	NR	NR	Erosion of natural deposits
Radium-228	pCi/L	NA	0.019	1	Range	ND	ND - 1	NR	ND	NR	NR	Erosion of natural deposits
					Average		ND					
Combined Radium-226 + 228	pCi/L	5	(0)	NA	Range	ND	ND	NA	-0.07 - 0.48	NR	NR	Erosion of natural deposits
					Average			0.42	0.2			
Strontium-90	pCi/L	8	0.35	2	Range / Average	ND	ND	NR	ND	NR	NR	Decay of natural and man - made deposits
Chromium, Hex	ppb	NA	0.02	1	Range	ND - 0.22	ND	NR	ND	NR	NA	By-product of industrial process
					Average	0.06						
Dibromo- (DBCP) Chloropropane	ppt	200	3	10	Range / Average	ND	ND	NR	NR	NR	NR	Banned nematocide that may still be present in soils.
Bromodichloro-methane	ppb	NA	0.06	1	Range	NR	NR	NR	NR	NR	0.0 - 9.9	By-product of drinking water chlorination
					Average						8.1	
Bromoform	ppb	NA	0.5	1	Range	NR	NR	NR	NR	NR	0.0 - 5.7	By-product of drinking water chlorination
					Average						4.2	
Chloroform	ppb	NA	0.4	1	Range	NR	NR	NR	NR	NR	0.0 - 11	By-product of drinking water chlorination
					Average						7.6	
Dibromochloro-methane	ppb	NA	0.1	1	Range	NR	NR	NR	NR	NR	0.0 - 11	By-product of drinking water chlorination
					Average						8.1	

MCLs, DLRs, and PHGs for Regulated Drinking Water Contaminants

(Units are in milligrams per liter (mg/L), unless otherwise noted.)

Last Update: September 14, 2021

This table includes:

California's maximum contaminant levels (MCLs)

Detection limits for purposes of reporting (DLRs)

Public health goals (PHGs) from the Office of Environmental Health Hazard Assessment (OEHHA)

Also, the PHG for NDMA (which is not yet regulated) is included at the bottom of this table.

Regulated Contaminant	MCL	DLR	PHG	Date of PHG
Chemicals with MCLs in 22 CCR §64431—Inorganic Chemicals				
Aluminum	1	0.05	0.6	2001
Antimony	0.006	0.006	0.001	2016
Arsenic	0.010	0.002	0.000004	2004
Asbestos (MFL = million fibers per liter; for fibers >10 microns long)	7 MFL	0.2 MFL	7 MFL	2003
Barium	1	0.1	2	2003
Beryllium	0.004	0.001	0.001	2003
Cadmium	0.005	0.001	0.00004	2006
Chromium, Total - OEHHA withdrew the 0.0025-mg/L PHG	0.05	0.01	withdrawn Nov. 2001	1999
Chromium, Hexavalent - 0.01-mg/L MCL & 0.001-mg/L DLR repealed September 2017	--	--	0.00002	2011
Cyanide	0.15	0.1	0.15	1997
Fluoride	2	0.1	1	1997
Mercury (inorganic)	0.002	0.001	0.0012	1999 (rev2005)*
Nickel	0.1	0.01	0.012	2001
Nitrate (as nitrogen, N)	10 as N	0.4	45 as NO3 (=10 as N)	2018
Nitrite (as N)	1 as N	0.4	1 as N	2018
Nitrate + Nitrite (as N)	10 as N	--	10 as N	2018
Perchlorate	0.006	0.004	0.001	2015
Selenium	0.05	0.005	0.03	2010
Thallium	0.002	0.001	0.0001	1999 (rev2004)
Copper and Lead, 22 CCR §64672.3				
Values referred to as MCLs for lead and copper are not actually MCLs; instead, they are called "Action Levels" under the lead and copper rule				
Copper	1.3	0.05	0.3	2008

Lead	0.015	0.005	0.0002	2009
Radionuclides with MCLs in 22 CCR §64441 and §64443—Radioactivity				
[units are picocuries per liter (pCi/L), unless otherwise stated; n/a = not applicable]				
Gross alpha particle activity - OEHHA concluded in 2003 that a PHG was not practical	15	3	none	n/a
Gross beta particle activity - OEHHA concluded in 2003 that a PHG was not practical	4 mrem/yr	4	none	n/a
Radium-226	--	1	0.05	2006
Radium-228	--	1	0.019	2006
Radium-226 + Radium-228	5	--	--	--
Strontium-90	8	2	0.35	2006
Tritium	20,000	1,000	400	2006
Uranium	20	1	0.43	2001
Chemicals with MCLs in 22 CCR §64444—Organic Chemicals				
(a) Volatile Organic Chemicals (VOCs)				
Benzene	0.001	0.0005	0.00015	2001
Carbon tetrachloride	0.0005	0.0005	0.0001	2000
1,2-Dichlorobenzene	0.6	0.0005	0.6	1997 (rev2009)
1,4-Dichlorobenzene (p-DCB)	0.005	0.0005	0.006	1997
1,1-Dichloroethane (1,1-DCA)	0.005	0.0005	0.003	2003
1,2-Dichloroethane (1,2-DCA)	0.0005	0.0005	0.0004	1999 (rev2005)
1,1-Dichloroethylene (1,1-DCE)	0.006	0.0005	0.01	1999
cis-1,2-Dichloroethylene	0.006	0.0005	0.013	2018
trans-1,2-Dichloroethylene	0.01	0.0005	0.05	2018
Dichloromethane (Methylene chloride)	0.005	0.0005	0.004	2000
1,2-Dichloropropane	0.005	0.0005	0.0005	1999
1,3-Dichloropropene	0.0005	0.0005	0.0002	1999 (rev2006)
Ethylbenzene	0.3	0.0005	0.3	1997
Methyl tertiary butyl ether (MTBE)	0.013	0.003	0.013	1999
Monochlorobenzene	0.07	0.0005	0.07	2014
Styrene	0.1	0.0005	0.0005	2010
1,1,2,2-Tetrachloroethane	0.001	0.0005	0.0001	2003
Tetrachloroethylene (PCE)	0.005	0.0005	0.00006	2001
Toluene	0.15	0.0005	0.15	1999
1,2,4-Trichlorobenzene	0.005	0.0005	0.005	1999
1,1,1-Trichloroethane (1,1,1-TCA)	0.2	0.0005	1	2006
1,1,2-Trichloroethane (1,1,2-TCA)	0.005	0.0005	0.0003	2006
Trichloroethylene (TCE)	0.005	0.0005	0.0017	2009
Trichlorofluoromethane (Freon 11)	0.15	0.005	1.3	2014

1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.2	0.01	4	1997 (rev2011)
Vinyl chloride	0.0005	0.0005	0.00005	2000
Xylenes	1.75	0.0005	1.8	1997
(b) Non-Volatile Synthetic Organic Chemicals (SOCs)				
Alachlor	0.002	0.001	0.004	1997
Atrazine	0.001	0.0005	0.00015	1999
Bentazon	0.018	0.002	0.2	1999 (rev2009)
Benzo(a)pyrene	0.0002	0.0001	0.000007	2010
Carbofuran	0.018	0.005	0.0007	2016
Chlordane	0.0001	0.0001	0.00003	1997 (rev2006)
Dalapon	0.2	0.01	0.79	1997 (rev2009)
1,2-Dibromo-3-chloropropane (DBCP)	0.0002	0.00001	0.000003	2020
2,4-Dichlorophenoxyacetic acid (2,4-D)	0.07	0.01	0.02	2009
Di(2-ethylhexyl)adipate	0.4	0.005	0.2	2003
Di(2-ethylhexyl)phthalate (DEHP)	0.004	0.003	0.012	1997
Dinoseb	0.007	0.002	0.014	1997 (rev2010)
Diquat	0.02	0.004	0.006	2016
Endothal	0.1	0.045	0.094	2014
Endrin	0.002	0.0001	0.0003	2016
Ethylene dibromide (EDB)	0.00005	0.00002	0.00001	2003
Glyphosate	0.7	0.025	0.9	2007
Heptachlor	0.00001	0.00001	0.000008	1999
Heptachlor epoxide	0.00001	0.00001	0.000006	1999
Hexachlorobenzene	0.001	0.0005	0.00003	2003
Hexachlorocyclopentadiene	0.05	0.001	0.002	2014
Lindane	0.0002	0.0002	0.000032	1999 (rev2005)
Methoxychlor	0.03	0.01	0.00009	2010
Molinate	0.02	0.002	0.001	2008
Oxamyl	0.05	0.02	0.026	2009
Pentachlorophenol	0.001	0.0002	0.0003	2009
Picloram	0.5	0.001	0.166	2016
Polychlorinated biphenyls (PCBs)	0.0005	0.0005	0.00009	2007
Simazine	0.004	0.001	0.004	2001
Thiobencarb	0.07	0.001	0.042	2016
Toxaphene	0.003	0.001	0.00003	2003
1,2,3-Trichloropropane	0.000005	0.000005	0.0000007	2009
2,3,7,8-TCDD (dioxin)	$3x10^{-8}$	$5x10^{-9}$	$5x10^{-11}$	2010
2,4,5-TP (Silvex)	0.05	0.001	0.003	2014
Chemicals with MCLs in 22 CCR §64533—Disinfection Byproducts				
Total Trihalomethanes	0.080	--	--	--
Bromodichloromethane	--	0.0010	0.00006	2020

Bromoform	--	0.0010	0.0005	2020
Chloroform	--	0.0010	0.0004	2020
Dibromochloromethane	--	0.0010	0.0001	2020
Haloacetic Acids (five) (HAA5)	0.060	--	--	--
Monochloroacetic Acid	--	0.0020	--	--
Dichloroacetic Adic	--	0.0010	--	--
Trichloroacetic Acid	--	0.0010	--	--
Monobromoacetic Acid	--	0.0010	--	--
Dibromoacetic Acid	--	0.0010	--	--
Bromate	0.010	0.0050**	0.0001	2009
Chlorite	1.0	0.020	0.05	2009
Chemicals with PHGs established in response to DDW requests. These are not currently regulated drinking water contaminants.				
N-Nitrosodimethylamine (NDMA)	--	--	0.000003	2006
*OEHHA's review of this chemical during the year indicated (rev20XX) resulted in no change in the PHG.				
**The DLR for Bromate is 0.0010 mg/L for analysis performed using EPA Method 317.0 Revision 2.0, 321.8, or 326.0.				

ATTACHMENT NO. 3
Table 1
Reference: 2012 ACWA PHG Survey

COST ESTIMATES FOR TREATMENT TECHNOLOGIES

(INCLUDES ANNUALIZED CAPITAL AND O&M COSTS)

No.	Treatment Technology	Source of Information	Estimated Unit Cost 2012 ACWA Survey Indexed to 2021* ($/1,000 gallons treated)
1	Ion Exchange	Coachella Valley WD, for GW, to reduce Arsenic concentrations. 2011 costs.	2.40
2	Ion Exchange	City of Riverside Public Utilities, for GW, for Perchlorate treatment.	1.16
3	Ion Exchange	Carollo Engineers, anonymous utility, 2012 costs for treating GW source for Nitrates. Design souce water concentration: 88 mg/L NO_3. Design finished water concentration: 45 mg/L NO_3. Does not include concentrate disposal or land cost.	0.88
4	Granular Activated Carbon	City of Riverside Public Utilities, GW sources, for TCE, DBCP (VOC, SOC) treatment.	0.58
5	Granular Activated Carbon	Carollo Engineers, anonymous utility, 2012 costs for treating SW source for TTHMs. Design souce water concentration: 0.135 mg/L. Design finished water concentration: 0.07 mg/L. Does not include concentrate disposal or land cost.	0.42
6	Granular Activated Carbon, Liquid Phase	LADWP, Liquid Phase GAC treatment at Tujunga Well field. Costs for treating 2 wells. Treament for 1,1 DCE (VOC). 2011-2012 costs.	1.78
7	Reverse Osmosis	Carollo Engineers, anonymous utility, 2012 costs for treating GW source for Nitrates. Design souce water concentration: 88 mg/L NO_3. Design finished water concentration: 45 mg/L NO_3. Does not include concentrate disposal or land cost.	0.94
8	Packed Tower Aeration	City of Monrovia, treatment to reduce TCE, PCE concentrations. 2011-12 costs.	0.52
9	Ozonation+ Chemical addition	SCVWD, STWTP treatment plant includes chemical addition + ozone generation costs to reduce THM/HAAs concentrations. 2009-2012 costs.	0.11

COST ESTIMATES FOR TREATMENT TECHNOLOGIES

(INCLUDES ANNUALIZED CAPITAL AND O&M COSTS)

No.	Treatment Technology	Source of Information	Estimated Unit Cost 2012 ACWA Survey Indexed to 2021* ($/1,000 gallons treated)
10	Ozonation+ Chemical addition	SCVWD, PWTP treatment plant includes chemical addition + ozone generation costs to reduce THM/HAAs concentrations, 2009-2012 costs.	0.23
11	Coagulation/Filtration	Soquel WD, treatment to reduce manganese concentrations in GW. 2011 costs.	0.88
12	Coagulation/Filtration Optimization	San Diego WA, costs to reduce THM/Bromate, Turbidity concentrations, raw SW a blend of State Water Project water and Colorado River water, treated at Twin Oaks Valley WTP.	1.00
13	Blending (Well)	Rancho California WD, GW blending well, 1150 gpm, to reduce fluoride concentrations.	0.83
14	Blending (Wells)	Rancho California WD, GW blending wells, to reduce arsenic concentrations, 2012 costs.	0.68
15	Blending	Rancho California WD, using MWD water to blend with GW to reduce arsenic concentrations. 2012 costs.	0.81
16	Corrosion Inhibition	Atascadero Mutual WC, corrosion inhibitor addition to control aggressive water. 2011 costs.	0.10

*Costs were adjusted from date of original estimates to present, where appropriate, using the Engineering News Record (ENR) annual average Construction Cost Index of 12,1332021

ATTACHMENT NO. 3
Table 2
Reference: Other Agencies

COST ESTIMATES FOR TREATMENT TECHNOLOGIES

(INCLUDES ANNUALIZED CAPITAL AND O&M COSTS)

No.	Treatment Technology	Source of Information	Estimated 2012 Unit Cost Indexed to 2021* ($/1,000 gallons treated)
1	Reduction - Coagulation-Filtration	Reference: February 28, 2013, Final Report Chromium Removal Research, City of Glendale, CA. 100-2000 gpm. Reduce Hexavalent Chromium to 1 ppb.	1.91 - 11.96
2	IX - Weak Base Anion Resin	Reference: February 28, 2013, Final Report Chromium Removal Research, City of Glendale, CA. 100-2000 gpm. Reduce Hexavalent Chromium to 1 ppb.	1.96 – 8.19
3	IX	Golden State Water Co., IX w/disposable resin, 1 MGD, Perchlorate removal, built in 2010.	0.60
4	IX	Golden State Water Co., IX w/disposable resin, 1000 gpm, perchlorate removal (Proposed; O&M estimated).	1.31
5	IX	Golden State Water Co., IX with brine regeneration, 500 gpm for Selenium removal, built in 2007.	8.57
6	GFO/Adsorption	Golden State Water Co., Granular Ferric Oxide Resin, Arsenic removal, 600 gpm, 2 facilities, built in 2006.	2.24 - 2.39
7	RO	Reference: Inland Empire Utilities Agency : Chino Basin Desalter. RO cost to reduce 800 ppm TDS, 150 ppm Nitrate (as NO3); approx. 7 mgd.	2.93
8	IX	Reference: Inland Empire Utilities Agency : Chino Basin Desalter. IX cost to reduce 150 ppm Nitrate (as NO3); approx. 2.6 mgd.	1.63

9	Packed Tower Aeration	Reference: Inland Empire Utilities Agency : Chino Basin Desalter. PTA-VOC air stripping, typical treated flow of approx. 1.6 mgd.	0.49
10	IX	Reference: West Valley WD Report, for Water Recycling Funding Program, for 2.88 mgd treatment facility. IX to remove Perchlorate, Perchlorate levels 6-10 ppb. 2008 costs.	0.68 - 0.97
11	Coagulation Filtration	Reference: West Valley WD, includes capital, O&M costs for 2.88 mgd treatment facility- Layne Christensen packaged coagulation Arsenic removal system. 2009-2012 costs.	0.45
12	FBR	Reference: West Valley WD/Envirogen design data for the O&M + actual capitol costs, 2.88 mgd fluidized bed reactor (FBR) treatment system, Perchlorate and Nitrate removal, followed by multimedia filtration & chlorination, 2012. NOTE: The capitol cost for the treatment facility for the first 2,000 gpm is $23 million annualized over 20 years with ability to expand to 4,000 gpm with minimal costs in the future. $17 million funded through state and federal grants with the remainder funded by WVWD and the City of Rialto.	2.02 – 2.13

* Costs were adjusted from date of original estimates to present, where appropriate, using the Engineering News Record (ENR) annual average Construction Cost Index of 12,133 for 2021. .

ATTACHMENT NO. 3
Table 3
Reference: Updated 2012 ACWA Cost of Treatment Table

COST ESTIMATES FOR TREATMENT TECHNOLOGIES

(INCLUDES ANNUALIZED CAPITAL AND O&M COSTS)

No.	Treatment Technology	Source of Information	Estimated 2012 Unit Cost Indexed to 2021* ($/1,000 gallons treated)
1	Granular Activated Carbon	Reference: Malcolm Pirnie estimate for California Urban Water Agencies, large surface water treatment plants treating water from the State Water Project to meet Stage 2 D/DBP and bromate regulation, 1998	0.69 - 1.31
2	Granular Activated Carbon	Reference: Carollo Engineers, estimate for VOC treatment (PCE), 95% removal of PCE, Oct. 1994,1900 gpm design capacity	0.32
3	Granular Activated Carbon	Reference: Carollo Engineers, est. for a large No. Calif. surf. water treatment plant (90 mgd capacity) treating water from the State Water Project, to reduce THM precursors, ENR construction cost index = 6262 (San Francisco area) - 1992	1.51
4	Granular Activated Carbon	Reference: CH2M Hill study on San Gabriel Basin, for 135 mgd central treatment facility for VOC and SOC removal by GAC, 1990	0.59 - 0.86
5	Granular Activated Carbon	Reference: Southern California Water Co. - actual data for "rented" GAC to remove VOCs (1,1-DCE), 1.5 mgd capacity facility, 1998	2.71
6	Granular Activated Carbon	Reference: Southern California Water Co. - actual data for permanent GAC to remove VOCs (TCE), 2.16 mgd plant capacity, 1998	1.75
7	Reverse Osmosis	Reference: Malcolm Pirnie estimate for California Urban Water Agencies, large surface water treatment plants treating water from the State Water Project to meet Stage 2 D/DBP and bromate regulation, 1998	2.036 – 3.89
8	Reverse Osmosis	Reference: Boyle Engineering, RO cost to reduce 1000 ppm TDS in brackish groundwater in So. Calif., 1.0 mgd plant operated at 40% of design flow, high brine line cost, May 1991	4.80
9	Reverse Osmosis	Reference: Boyle Engineering, RO cost to reduce 1000 ppm TDS in brackish groundwater in So. Calif., 1.0 mgd plant operated at 100% of design flow, high brine line cost, May 1991	2.96
10	Reverse Osmosis	Reference: Boyle Engineering, RO cost to reduce 1000 ppm TDS in brackish groundwater in So. Calif., 10.0 mgd plant operated at 40% of design flow, high brine line cost, May 1991	3.20

COST ESTIMATES FOR TREATMENT TECHNOLOGIES

(INCLUDES ANNUALIZED CAPITAL AND O&M COSTS)

No.	Treatment Technology	Source of Information	Estimated 2012 Unit Cost Indexed to 2021* ($/1,000 gallons treated)
11	Reverse Osmosis	Reference: Boyle Engineering, RO cost to reduce 1000 ppm TDS in brackish groundwater in So. Calif., 10.0 mgd plant operated at 100% of design flow, high brine line cost, May 1991	2.48
12	Reverse Osmosis	Reference: Arsenic Removal Study, City of Scottsdale, AZ - CH2M Hill, for a 1.0 mgd plant operated at 40% of design capacity, Oct. 1991	8.04
13	Reverse Osmosis	Reference: Arsenic Removal Study, City of Scottsdale, AZ - CH2M Hill, for a 1.0 mgd plant operated at 100% of design capacity, Oct. 1991	4.75
14	Reverse Osmosis	Reference: Arsenic Removal Study, City of Scottsdale, AZ - CH2M Hill, for a 10.0 mgd plant operated at 40% of design capacity, Oct. 1991	3.55
15	Reverse Osmosis	Reference: Arsenic Removal Study, City of Scottsdale, AZ - CH2M Hill, for a 10.0 mgd plant operated at 100% of design capacity, Oct. 1991	2.20
16	Reverse Osmosis	Reference: CH2M Hill study on San Gabriel Basin, for 135 mgd central treatment facility with RO to remove nitrate, 1990	2.22 - 3.89
17	Packed Tower Aeration	Reference: Analysis of Costs for Radon Removal... (AWWARF publication), Kennedy/Jenks, for a 1.4 mgd facility operating at 40% of design capacity, Oct. 1991	1.27
18	Packed Tower Aeration	Reference: Analysis of Costs for Radon Removal... (AWWARF publication), Kennedy/Jenks, for a 14.0 mgd facility operating at 40% of design capacity, Oct. 1991	0.68
19	Packed Tower Aeration	Reference: Carollo Engineers, estimate for VOC treatment (PCE) by packed tower aeration, without off-gas treatment, O&M costs based on operation during 329 days/year at 10% downtime, 16 hr/day air stripping operation, 1900 gpm design capacity, Oct. 1994	0.34
20	Packed Tower Aeration	Reference: Carollo Engineers, for PCE treatment by Ecolo-Flo Enviro-Tower air stripping, without off-gas treatment, O&M costs based on operation during 329 days/year at 10% downtime, 16 hr/day air stripping operation, 1900 gpm design capacity, Oct. 1994	0.35
21	Packed Tower Aeration	Reference: CH2M Hill study on San Gabriel Basin, for 135 mgd central treatment facility - packed tower aeration for VOC and radon removal, 1990	0.55 - 0.90

COST ESTIMATES FOR TREATMENT TECHNOLOGIES

(INCLUDES ANNUALIZED CAPITAL AND O&M COSTS)

No.	Treatment Technology	Source of Information	Estimated 2012 Unit Cost Indexed to 2021* ($/1,000 gallons treated)
22	Advanced Oxidation Processes	Reference: Carollo Engineers, estimate for VOC treatment (PCE) by UV Light, Ozone, Hydrogen Peroxide, O&M costs based on operation during 329 days/year at 10% downtime, 24 hr/day AOP operation, 1900 gpm capacity, Oct. 1994	0.67
23	Ozonation	Reference: Malcolm Pirnie estimate for CUWA, large surface water treatment plants using ozone to treat water from the State Water Project to meet Stage 2 D/DBP and bromate regulation, *Cryptosporidium* inactivation requirements,1998	0.15 - 0.32
24	Ion Exchange	Reference: CH2M Hill study on San Gabriel Basin, for 135 mgd central treatment facility - ion exchange to remove nitrate, 1990	0.73 - 0.97

* Costs were adjusted from date of original estimates to present, where appropriate, using the Engineering News Record (ENR) annual average Construction Cost Index of 12,133 for 2021.

DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: AWARD OF AMENDMENT NO. 3 FOR THE MONTIEL LIFT STATION AND FORCEMAIN REPLACEMENT PROJECT

BACKGROUND:

The District's Montiel Lift Station pumps wastewater collected from the Montiel sewershed through a 6-inch diameter force main to a gravity sewer heading west through the Nordahl Shopping Center at the intersection of Nordahl Road and Montiel Road. Several system deficiencies have been identified with this current infrastructure:

- The Montiel Lift Station was constructed in 1985 as a temporary facility intended to be in operation for less than 5 years. The lift station has exceeded its useful life expectancy and requires replacement. The District's 2018 Master Plan identifies replacement of this lift station at a cost of $1.5 million.
- The 6-inch force main serving the Montiel Lift Station is in danger of failing and is in severe need of replacement. Staff has estimated the force main's replacement cost at $800,000.
- The existing 8-inch gravity sewer transporting wastewater from the 6-inch force main through the Nordahl Shopping Center is undersized and cannot serve additional development in the Montiel sewershed without enlargement. The District's 2018 Master Plan identifies upsizing of this pipeline at a cost of $2.1 million.

Staff had previously identified an alternative to the above-mentioned infrastructure improvements. In the early 2000's, the District and the City of Escondido evaluated the possibility of eliminating the Montiel Lift Station and piping the sewer to the City of Escondido. This approach was not endorsed by the City of Escondido, which ultimately would not accept the additional sewer flows. The existing Montiel Lift Station and forcemain will require replacement.

The Montiel Lift Station has a history of operational ineffectiveness including occasional pump failure due to ragging and solids build-up in the wet well requiring emergency action to make repairs. The Board of Directors authorized a professional services agreement (PSA) for engineering design and environmental services on November 6, 2019, with Michael Baker International (MBI) to design the Montiel Lift Station and Forcemain Replacement Improvements (Project).

Staff authorized Amendment No. 1 on February 10, 2021, for additional gravity sewer replacement design and Caltrans permitting in the not-to-exceed amount of $44,740. Staff authorized Amendment No. 2 on February 14, 2022, for additional services including easement plotting, coordination with SDG&E and Hotel Leora Lane developers, production of exhibits and preparation of plat and legal documents for easement acquisitions in the not-to-exceed amount of $50,672. The Project is currently in final design.

DISCUSSION:

On July 17, 2022, the District initiated a request for additional design engineering services to address continued coordination with the Hotel Leora Lane development, including exploratory meetings, exhibits, associated updates to completed drawings including grading plans with drainage and grading calculations, coordination with City of San Marcos, and plat and legal document modifications for easement acquisitions.

Staff received a proposal for Amendment No. 3 from MBI on August 8, 2022. Staff reviewed the proposal, fee, and schedule. Staff returned comments to MBI and requested clarification on the scope of work and fee. Staff received the final version of the proposal for Amendment No. 3 on August 25, 2022, with a time and materials not-to-exceed fee of $74,281.

FISCAL IMPACT:

This project is identified in the District's fiscal year 2022/2023 budget. The approved Capital budget amount is $7,215,000. Funding for the Montiel Lift Station and Forcemain Replacement Project will come 51% from the Sewer Replacement Fund and 49% from the Sewer Capacity Fund.

The project budget is as follows:

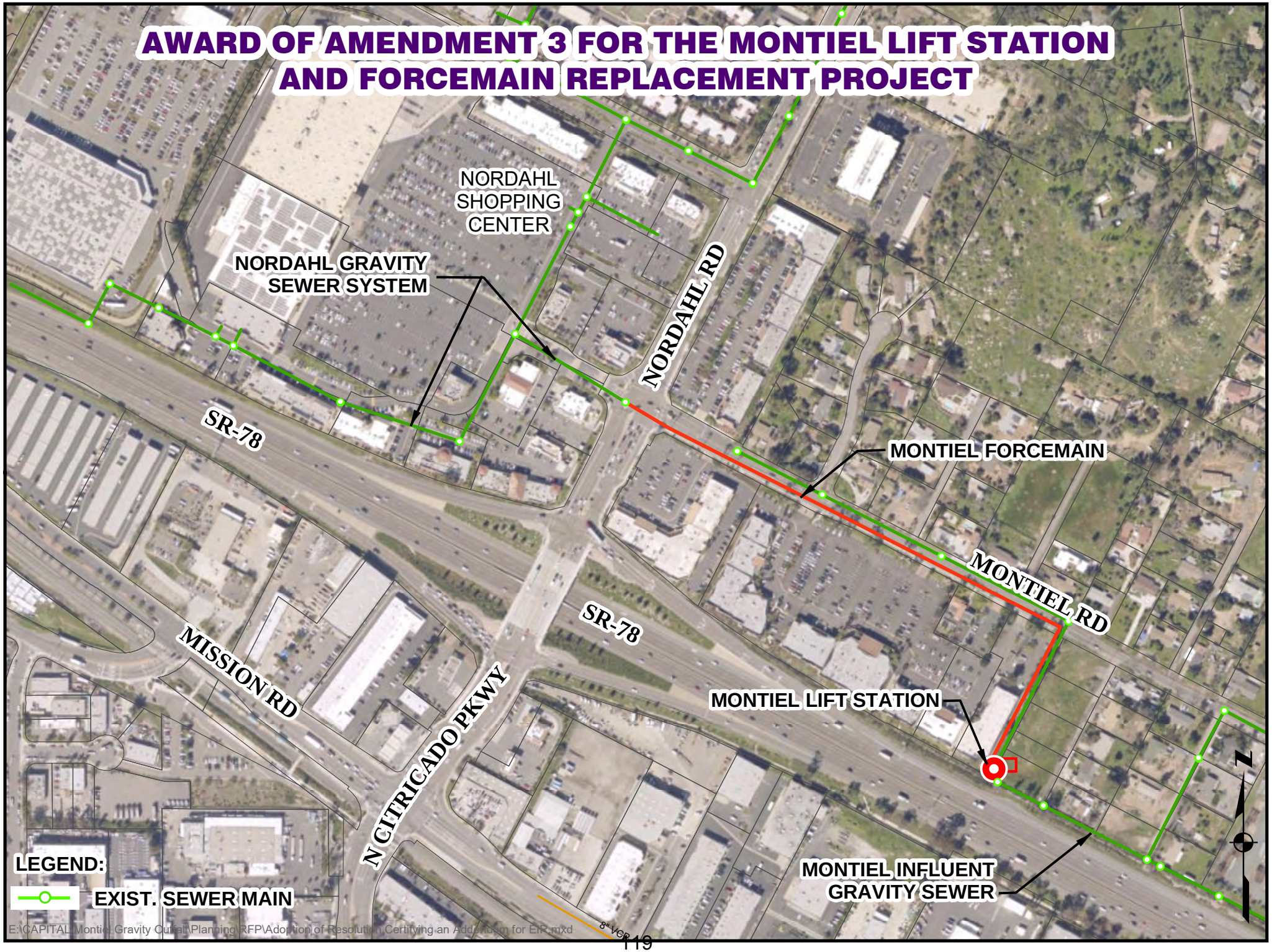
Budget	**$ 7,215,000**
Planning and Design Services	$ 522,172
Amendment No. 1	$ 44,740
Amendment No. 2	$ 50,672
Amendment No. 3	$ 74,281
Construction*	$ 5,550,000
Construction Management & Inspection*	$ 670,000
Staff and Other Services*	$ 80,000
Overhead/Materials*	$ 190,000
Subtotal	**$ 7,181,865**
***Estimated Surplus**	**$ 33,135**

RECOMMENDATION:

Staff recommends authorizing the General Manager to execute Amendment No. 3 under the current PSA with Michael Baker International, Inc. in the amount of $74,281 for additional engineering design services for the Montiel Lift Station and Forcemain Replacement Project.

ATTACHMENTS

Aerial exhibit


AWARD OF AMENDMENT 3 FOR THE MONTIEL LIFT STATION AND FORCEMAIN REPLACEMENT PROJECT
NORDAHL SHOPPING CENTER
NORDAHL GRAVITY SEWER SYSTEM
NORDAHL RD
SR-78
MONTIEL FORCEMAIN
MONTIEL RD
SR-78
MISSION RD
N CITRICADO PKWY
MONTIEL LIFT STATION
MONTIEL INFLUENT GRAVITY SEWER
LEGEND:
EXIST. SEWER MAIN
8" VCP
N
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DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: ADOPTION OF RESOLUTION APPROVING AN ADDENDUM TO THE 2018 PROGRAM ENVIRONMENTAL IMPACT REPORT FOR THE MONTIEL LIFT STATION AND FORCEMAIN REPLACEMENT PROJECT

BACKGROUND:

The District's Montiel Lift Station pumps wastewater collected from the Montiel sewershed through a 6-inch diameter force main to a gravity sewer heading west through the Nordahl Shopping Center at the intersection of Nordahl Road and Montiel Road. Several system deficiencies have been identified with this current infrastructure:

- The Montiel Lift Station was constructed in 1985 as a temporary facility intended to be in operation for less than 5 years. The lift station has exceeded its useful life expectancy and requires replacement. The District's 2018 Master Plan identifies replacement of this lift station.
- The 6-inch diameter force main serving the Montiel Lift Station is corroded, at-risk of failing, and is in severe need of replacement.
- The existing 8-inch diameter gravity sewer conveys wastewater from the 6-inch force main through the Nordahl Shopping Center is undersized and cannot serve additional development in the Montiel sewershed without replacement. The District's 2018 Master Plan identifies upsizing of this pipeline.

Staff had previously identified an alternative to the above-mentioned infrastructure improvements. In the early 2000's, the District and the City of Escondido evaluated the possibility of eliminating the Montiel Lift Station and piping the sewer to the City of Escondido. This approach was not endorsed by the City of Escondido, which ultimately would not accept the additional sewer flows. The existing Montiel Lift Station and forcemain will require replacement.

The Montiel Lift Station has a history of operational ineffectiveness including occasional pump failure due to ragging and solids build-up in the wet well requiring emergency action to make repairs. The Board of Directors authorized a professional services agreement (PSA) for engineering design and environmental services on November 6, 2019, with Michael Baker International (MBI) to design the Montiel Lift Station and Forcemain Replacement Improvements (Project). The Project is currently in final design and an evaluation of potential environmental impacts was needed per the California Environmental Quality Act (CEQA).

DISCUSSION:

As part of MBI's scope of work, an Addendum to the Certified 2018 Water, Wastewater, and Recycled Water Master Plan Program Environmental Impact Report (PEIR; State

Clearinghouse No. 2017111082) was prepared to address proposed infrastructure improvements under CEQA Guidelines section 15164. CEQA Guidelines Sections 15162 through 15164 set forth the criteria for determining the appropriate additional environmental documentation, if any, to be completed when there are changes proposed for a project previously analyzed in a certified Environmental Impact Report (EIR). CEQA Guidelines Section 15164(a) requires the lead agency to prepare an Addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 which call for preparation of a subsequent or supplemental EIR have occurred.

The Project improvements as currently designed remain in substantial conformance with those originally identified in the 2018 Master Plan and as evaluated in the certified 2018 PEIR. The Addendum prepared by MBI demonstrates, potential environmental impacts and required mitigation measures for the Project remain consistent with those previously identified in the PEIR. As such, CEQA does not require preparation of a subsequent or supplemental EIR. Further, the Addendum includes an Environmental Review Update Checklist Form has been prepared in accordance with CEQA Guidelines Section 15164(e) to explain the rationale for determining that no further environmental review is required.

As discussed in the Addendum, the Project improvements: (1) would not result in any new significant environmental impacts or substantially increase any previously identified significant effects; (2) there are no new circumstances under which the improvements will be undertaken that would cause any new or more severe significant effects; and (3) there is no new information showing the improvements would have new or more severe significant effects or that there are new feasible mitigation measures or alternatives that would reduce any identified significant effects. None of the conditions identified in Section 15162 have occurred. Therefore, the preparation of a subsequent EIR is not required. Pursuant to CEQA Guidelines Section 15164, the Addendum is intended to inform the District's consideration and action on the Project.

Staff has prepared a Resolution approving an Addendum to the PEIR for the Project which includes mitigation monitoring measures. If the Board adopts this Resolution, which includes written findings the measures are more effective in avoiding potential significant effects, staff will file a Notice of Determination with the San Diego County Clerk and a Certificate of Fee Exemption with the California Department of Fish and Wildlife. Filing of the Notice of Determination commences the thirty (30) day statute of limitations for legal challenges to the Addendum. Upon adoption of the Resolution, staff will complete the final design and anticipates release the project for bid in November 2022. The certified PEIR, and Addendum are on file and available for public review at https://www.vwd.org/departments/engineering/capital-facilities/master-plan.

FISCAL IMPACT:

Funding for this Project is provided 51% through the District's Sewer Replacement Fund 210 and 49% through the District's Sewer Capacity Fund. The Project was approved in the District's Fiscal Year 22/23 Budget totaling $7,215,000. MBI provided engineering design and environmental services including production the Addendum for a time and materials not-to-exceed fee of $49,188 which was included in the FY 22/23 approved budget.

RECOMMENDATION:

Staff recommends adopting the Resolution approving the Addendum to the Certified 2018 Water, Wastewater, and Recycled Water Master Plan Program Environmental Impact Report (PEIR; State Clearinghouse No. 2017111082) for the Montiel Lift Station and Forcemain Replacement Project. This Resolution also directs staff to file a Notice of Determination with the San Diego County Clerk and a Certificate of Fee Exemption with the California Department of Fish and Wildlife.

ATTACHMENT:

Resolution

Aerial exhibit

RESOLUTION NO.

RESOLUTION OF THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT MAKING FINDINGS PURSUANT TO PUBLIC RESOURCES CODE SECTION 21166 AND ADOPTING ADDENDUM NO. 1 TO 2018 WASTE, WASTEWATER AND RECYCLED WATER MASTER PLAN PROGRAM ENVIRONMENTAL IMPACT REPORT (SCH # 2017111082)

WHEREAS, on May 1, 2019, the Board of Directors for the Vallecitos Water District certified the Waste, Wastewater and Recycled Water Master Plan Program Environmental Impact Report (SCH # 2017111082) ("PEIR"), adopted a Mitigation Monitoring and Reporting Program, and approved the Water, Wastewater and Recycled Water Master Plan ("Master Plan") pursuant to the California Environmental Quality Act ("CEQA"); and

WHEREAS, the Master Plan included a number of individual projects, including the Montiel Lift Station and Forcemain Replacement Project ("Project"), and the PEIR analyzed the impacts of such included projects; and

WHEREAS, the District proposes to make minor improvements to the Project, to include full replacement of the existing Montiel Lift Station, replacement and extension of the Montiel Lift Station Forcemain, and replacement of existing influent gravity sewer segments that serve Montiel Lift Station; and

WHEREAS, pursuant to CEQA, when taking subsequent discretionary actions in furtherance of a project for which an EIR has been certified, the lead agency is required to review any changed circumstances to determine whether any of the circumstances under Public Resources Code section 21166 and State CEQA Guidelines section 15162 require additional environmental review; and

WHEREAS, staff has evaluated the proposed changes in light of the standards for subsequent environmental review outlined in Public Resources Code section 21166 and State CEQA Guidelines section 15162, and concluded that the proposed changes would not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects that were previously disclosed in the PEIR and therefore no subsequent EIR or mitigated negative declaration is required; and

WHEREAS, the proposed improvements would nonetheless necessitate minor changes or additions to the PEIR and thus, the District has prepared an Addendum to the PEIR ("Addendum No. 1") pursuant to State CEQA Guidelines section 15164; and

WHEREAS, on September 7, 2022, the Board of Directors of the District held a duly noticed public meeting to consider the Project improvements and the Addendum, at which members of the public were afforded an opportunity to comment on the Design Review application and Addendum No. 1; and

WHEREAS, the Board of Directors has carefully considered the PEIR, the Addendum No. 1, the staff report, and all pertinent testimony offered at the public meeting held on September 7, 2022; and

WHEREAS, State CEQA Guidelines section 15164, subdivision (c) does not require the Addendum to be circulated for public review but can be included in or attached to a final PEIR; and

WHEREAS, the findings and conclusions made by the Board of Directors are based on the oral and written evidence presented as well as the entirety of the administrative record for the Project, which is incorporated herein by this reference.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT as follows:

SECTION 1: Recitals. The recitals above are true and correct and are hereby adopted as findings, as if fully set forth herein.

SECTION 2: Compliance With CEQA. State CEQA Guidelines section 15164 requires lead agencies to prepare an addendum to a previously certified EIR if some changes or additions to the project are necessary, but none of the conditions requiring preparation of a subsequent EIR are present. The Board of Directors has reviewed and considered the administrative record, including but not limited to the PEIR and Addendum No. 1, which are all incorporated by reference as though set forth fully herein, and finds that those documents taken together contain a complete and accurate reporting of all the environmental impacts associated with the Project, including the Project improvements. The Board of Directors further finds that the Addendum and the administrative record have been completed in compliance with CEQA, the State CEQA Guidelines, and the District's Local Guidelines. The Board of Directors finds and determines that the Addendum reflects the District's independent judgment.

SECTION 3: CEQA Findings. In this case, when taking subsequent discretionary actions in furtherance of a project for which an EIR has been certified, the District is required to review any changed circumstances under Public Resources Code section 21166 and State CEQA Guidelines section 15162 to determine whether additional environmental review is required. Based on the substantial evidence set forth in the administrative record, including but not limited to the PEIR and the Addendum, the Board of Directors finds that none of the conditions under State CEQA Guidelines section 15162 requiring subsequent environmental review have occurred because the Project, including the Project improvements:

a) does not constitute substantial changes that would require major revisions to the PEIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified effects; and

b) does not constitute substantial changes with respect to the circumstances under which the Project, including the Project improvements, were developed that would require major revisions of the PEIR due to the involvement of new significant environmental effects or a substantial increase in the severity of the previously identified significant effects; and

c) does not present new information or substantial importance that was not known and could not have been known with the exercise of reasonable diligence at the time the PEIR was certified, showing any of the following: (i) that the Project, including the Project

improvements, would have one or more significant effects not discussed in the earlier environmental documentation; (ii) that significant effects previously examined would be substantially more severe than shown in the earlier environmental documentation; (iii) that mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects, but the applicant declined to adopt such measures; or (iv) that mitigation measures or alternatives considerably different from those previously analyzed would substantially reduce one or more significant effects on the environment, but which the applicant declined to adopt.

SECTION 4. Board of Directors Action. The Board of Directors hereby approves and adopts the Addendum to the PEIR and confirms that all the mitigation measures previously imposed as part of the District's 2018 approvals remain fully applicable to the modifications to the Project.

SECTION 5: Location of Documents. The custodian of record of proceedings for this action shall be Clerk of the District. The certified PEIR, and Addendum are on file and available for public review on the District's website at: https://www.vwd.org/departments/engineering/capital-facilities/master-plan.

SECTION 6: Staff is hereby authorized and directed to file a Notice of Determination with the San Diego County Clerk within five (5) working days following the adoption of this Resolution.

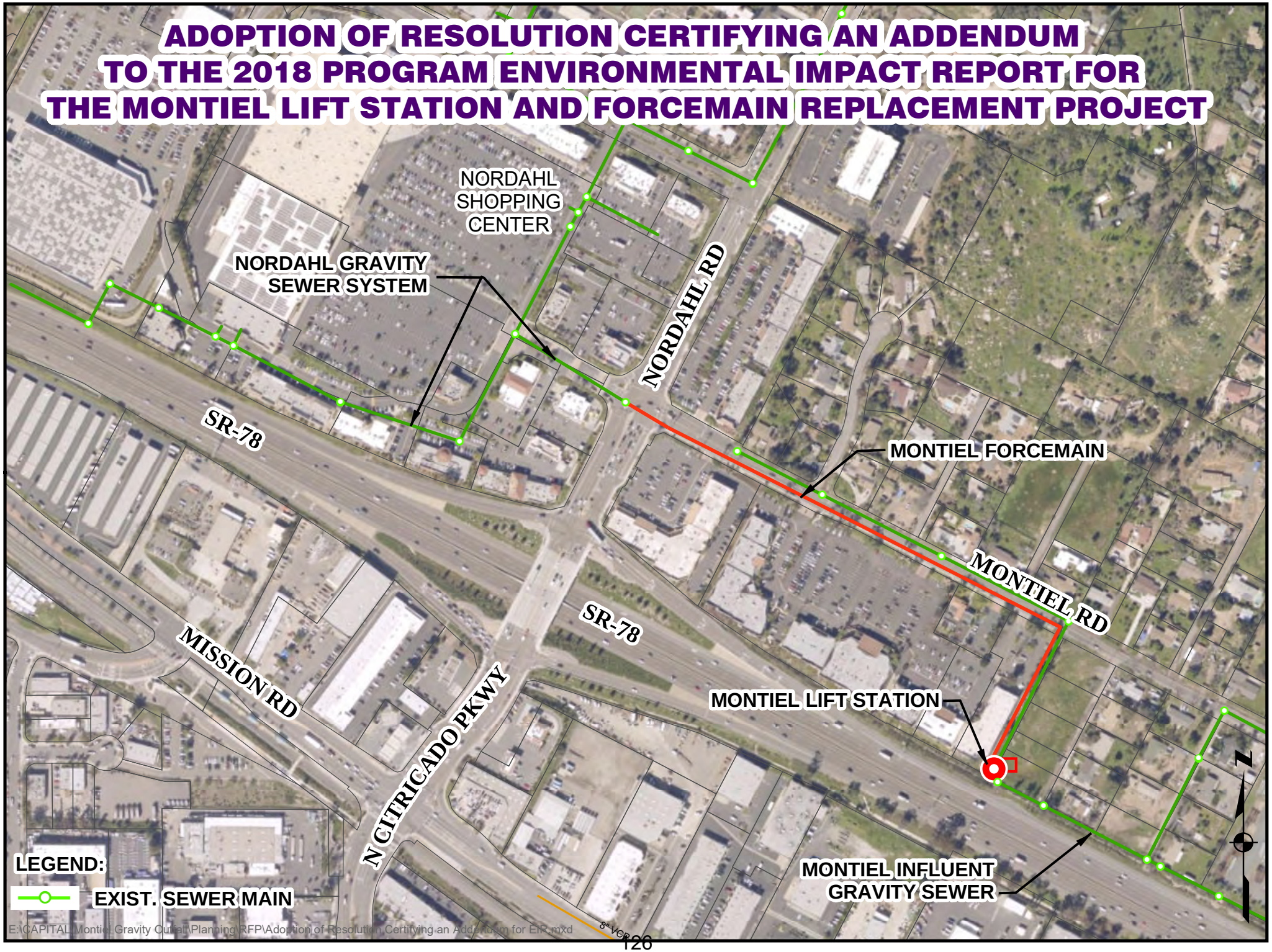
PASSED AND ADOPTED by the Board of Directors of the Vallecitos Water District at a regular meeting held on this 7th day of September, 2022, by the following roll call vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

Craig Elitharp, President
Board of Directors
Vallecitos Water District

ATTEST:

Glenn Pruim, General Manager
Board of Directors
Vallecitos Water District


ADOPTION OF RESOLUTION CERTIFYING AN ADDENDUM
TO THE 2018 PROGRAM ENVIRONMENTAL IMPACT REPORT FOR
THE MONTIEL LIFT STATION AND FORCEMAIN REPLACEMENT PROJECT
NORDAHL SHOPPING CENTER
NORDAHL GRAVITY SEWER SYSTEM
NORDAHL RD
SR-78
MONTIEL FORCEMAIN
MONTIEL RD
SR-78
MISSION RD
N CITRICADO PKWY
MONTIEL LIFT STATION
MONTIEL INFLUENT GRAVITY SEWER
LEGEND:
EXIST. SEWER MAIN
8" VCP
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DATE: SEPTEMBER 7, 2022
TO: BOARD OF DIRECTORS
SUBJECT: AWARD OF PROFESSIONAL SERVICES AGREEMENT FOR THE ASSET MANAGEMENT PLAN PROJECT

BACKGROUND:

The Asset Management Program for the Vallecitos Water District began in 2017 but was more formally established in 2019 to develop a data-driven, asset-centric, industry standard approach to managing the existing infrastructure assets. Asset Management is a comprehensive and continuous program focused on assessing the value and condition of infrastructure with the goal of minimizing the total lifecycle cost of ownership while providing the required Level of Service. An effective program integrates the disciplines of economics, engineering, maintenance, operations, and information technology working together to build and maintain a sustainable infrastructure and reduces costs to District rate payers over the lifecycle of all assets.

Asset Management is identified in the District's 2022 Strategic Plan, Focus Area 1, Infrastructure Integrity. Strategy 1.2, Asset Management and Replacement infrastructure specifically identifies the goals of Asset Management.

The Asset Management Program consists of many integrated parts. Staff presented an overview of the Asset Management Program at the October 6, 2021, Board meeting. This included:

- Update on the Ductile Iron Pipe Condition Assessment Pilot Program
- Condition Assessment of the Land Outfall West pipeline
- Satellite and Acoustic Leak Detection services completed in May 2022
- Tracking of Water System Leaks
- Managing and integrating the District's Computerized Maintenance Management System (CMMS) with the District's Geographic Information System (GIS)

The Asset Management Program proposed the creation and implementation of an Asset Management Plan (AMP). The goal of the AMP is to provide a roadmap for implementation of the District's comprehensive Asset Management Program. Additionally, the AMP would create a Renewal and Replacement schedule with funding analysis so the District can properly track reserve requirements along with asset lifecycle costs. A consultant was used to assist staff in generating an accurate and comprehensive AMP Request for Proposal (RFP) outlining the District's vision and needs for developing an AMP.

DISCUSSION:

The RFP was released March 2022 to eight engineering firms. The firms were asked to prepare and present their experience, methodology and expertise in creating similar Asset Management Plans. The eight firms staff requested proposals from included:

- Arcadis
- Black & Veatch
- HDR, Inc.
- Hoch Consulting
- West Yost
- Kennedy Jenks
- Hazen and Sawyer
- GHD

On May 5, 2022, staff received proposals from five of the firms: Arcadis, Black & Veatch, West Yost, Kennedy Jenks, and GHD. Once received, staff reviewed the proposals and rated each firm based on their experience on similar projects, how well they addressed the RFP requirements, project approach, scope of work, fee/labor hours, and schedule.

Staff selected three of the firms Arcadis, Black & Veatch, and West Yost as most qualified to move forward with virtual interviews as a second and final phase in the selection process. Interviews were conducted on July 21, 2022, and Black & Veatch was selected as the most qualified and responsive consultant for a total contract value of $305,750. On July 25th, staff met with Black & Veatch to finalize the scope, fee, and schedule. Black & Veatch's current scope and fee is as follows:

Asset Management Plan	
Proposal Fee Summary	
Phase	**Total**
Task 1: Project management	$ 20,460
Task 2: Levels of Service	$ 19,750
Task 3: Asset Registry & Fact Sheet	$ 30,350
Task 4: Asset Condition & RUL	$ 67,230
Task 5: BRE Analysis	$ 56,040
Task 6: R&R Schedule Tool	$ 47,840
Task 7: Funding Strategy	$ 13,580
Task 8: AMP	$ 50,500
Total Consultant Fee	**$ 305,750**

FISCAL IMPACT:

The project is identified in the Fiscal Year (FY) 22/23 budget with a total Capital Improvement Program (CIP) budget amount of $704,000, with approximately $274,000 allocated for the current fiscal year. To support the creation and implementation of the proposed AMP as well as other projects within the Asset Management Program under this CIP budget, $401,650 will be needed in the current fiscal year, FY 22/23. Therefore $128,391 will need to be appropriated from FY 23/24 to the current fiscal year, FY 22/23. The allocation for FY 23/24 will be reduced, but the overall CIP budget will not need to be increased; however, this will be evaluated in 2023 during the regular budget review process based on the Asset Management Program needs.

The project funding source is 50% Water Replacement and 50% Sewer Replacement. The total estimated project cost and budget are below:

Total Project Budget	**704,000**
Previous Spend	271,741
FY 22/23 Allocation	273,259
FY 23/24 Allocation	159,000
Total Projected Spend	704,000
FY 22/23 Budget	273,259
Asset Management Plan	
AMP Consultant Fees	305,750
Leak Detection/Soil Testing	26,600
Projected Staff	22,000
Projected Overhead	47,300
Project Need for FY 22/23	401,650
FY 22/23 Allocation	273,259
FY 23/24 Reallocation	128,391
Previous Spend	271,741
FY 22/23 Allocation	401,650
FY 23/24 Allocation	30,609
Total Projected Spend	704,000

RECOMMENDATION:

Authorize the General Manager to execute a professional services agreement with Black & Veatch in the amount of $305,750 for the Asset Management Plan project and reallocate $128,391 from FY 23/24 to FY 22/23.

DATE: **SEPTEMBER 7, 2022**
TO: **BOARD OF DIRECTORS**
SUBJECT: **AWARD OF CONSTRUCTION CONTRACT FOR THE 16-INCH EMERGENCY BYPASS PIPELINE REHABILITATION PROJECT**

BACKGROUND:

The existing 16-inch diameter Emergency Bypass Sewer (Emergency Bypass) pipeline was installed in 1969 and is composed of reinforced plastic mortar (RPM) commonly known as "Techite" pipe. The Emergency Bypass pipeline intercepts inbound raw sewage flows to Meadowlark Water Reclamation Facility (MRF) and redirects the flows to the Land Outfall Pipeline for Encina Wastewater Authority treatment. The Emergency Bypass pipeline is typically used during MRF operational shutdowns or emergency situations such as significant rain events. The Emergency Bypass pipeline is a critical infrastructure asset, serving as a relief in the District's sewer system. The Emergency Bypass pipeline has had 3 failures and repairs over the past 5 years with the following dates and expenditures:

- February 28, 2017 - $65,253
- January 10, 2018 - $79,000
- February 3, 2019 - $42,000

On February 20, 2020, the District was fined $66,335 from the San Diego Regional Water Quality Control Board because of the sanitary sewer overflow (SSO) from the previous failures. The Emergency Bypass pipeline has been considered inoperable since the 2019 incident due to the history of failures and regulatory risk.

The District determined a permanent solution was needed such as pipeline rehabilitation or replacement to avoid regulatory fines and regain the operational ability to divert flows from the treatment plant during emergencies. The project was prioritized, and the Planning Phase was initiated in Winter of 2020. During production of the feasibility study in the Planning Phase, it was determined significant cost savings could be made by expanding the scope of work to include the parallel 12-inch diameter Meadowlark Failsafe Outfall (Failsafe) pipeline into the 16-Inch Emergency Bypass Pipeline Rehabilitation Project (Project) improvements. Many of the associated costs in construction would require duplication, such as mobilization, survey, trenching, and surface restoration if the Failsafe pipeline were repaired or rehabilitated under a different project at a future date. Like the Emergency Bypass pipeline, the Failsafe pipeline has experienced several failures in the past 5 years which have required emergency repair.

The Board approved a Professional Service Agreement to Ardurra in the amount of $149,370 on March 17, 2021, to design, prepare plans, technical specifications, engineer's estimate, and assist staff during bid phase for the Project.

DISCUSSION:

During design phase, rehabilitation was selected over pipeline replacement for multiple benefits such as construction cost, impacts to the public, environmental impacts, and installation time. Rehabilitating the existing pipelines will extend the life of both assets by an additional 25-50 years. The project scope of work will involve installing 8 new access manholes, 4 temporary access pits, 6 new valves, 3,200 linear feet of 16-inch cured in place pipe (CIPP), and 2,150 linear feet of 12-inch CIPP for the existing Emergency Bypass and Failsafe pipelines.

Design was completed in June of 2022 and staff publicly advertised the project in July 2022. On August 4, 2022, staff conducted a pre-bid meeting with 5 CIPP contractors and 4 general contractors. Staff received and opened 2 bids on August 25, 2022, with the following summary of contractor bids:

Bidder	
Burtech Pipeline	$1,696,000
Charles King Company	$3,469,850

Staff and District Counsel completed the evaluation of qualifications, references, bid forms, and determined Burtech Pipeline was the lowest responsive and responsible bidder.

In anticipation of project advertisement for bid, staff conducted an RFP solicitation for inspection, construction management (CM), and geotechnical. Staff selected Valley CM on July 22, 2022. Ardurra and Recon will perform engineering and environmental services through construction. Staff will self-perform project management and provide inspection oversight.

FISCAL IMPACT:

The total cost and budget summary are as follows:

Budget	**$ 3,305,000**
Construction Contract	$ 1,696,000
Contingency (7.5% per Ordinance 146)	$ 127,000
District Furnished Materials for Construction	$ 58,214
Consulting Planning Phase Services	$ 91,556
Design Engineering Services (Ardurra)	$ 149,000
Staff and Overhead Planning and Design Phase Services	$ 250,000
Projected Staff Construction Phase Services	$ 92,000
Valley Construction Management and Geotechnical Services	$ 285,080
Consulting Construction Phase Services	$ 80,000
Total	**$ 2,828,850**
Surplus	**$ 476,150**

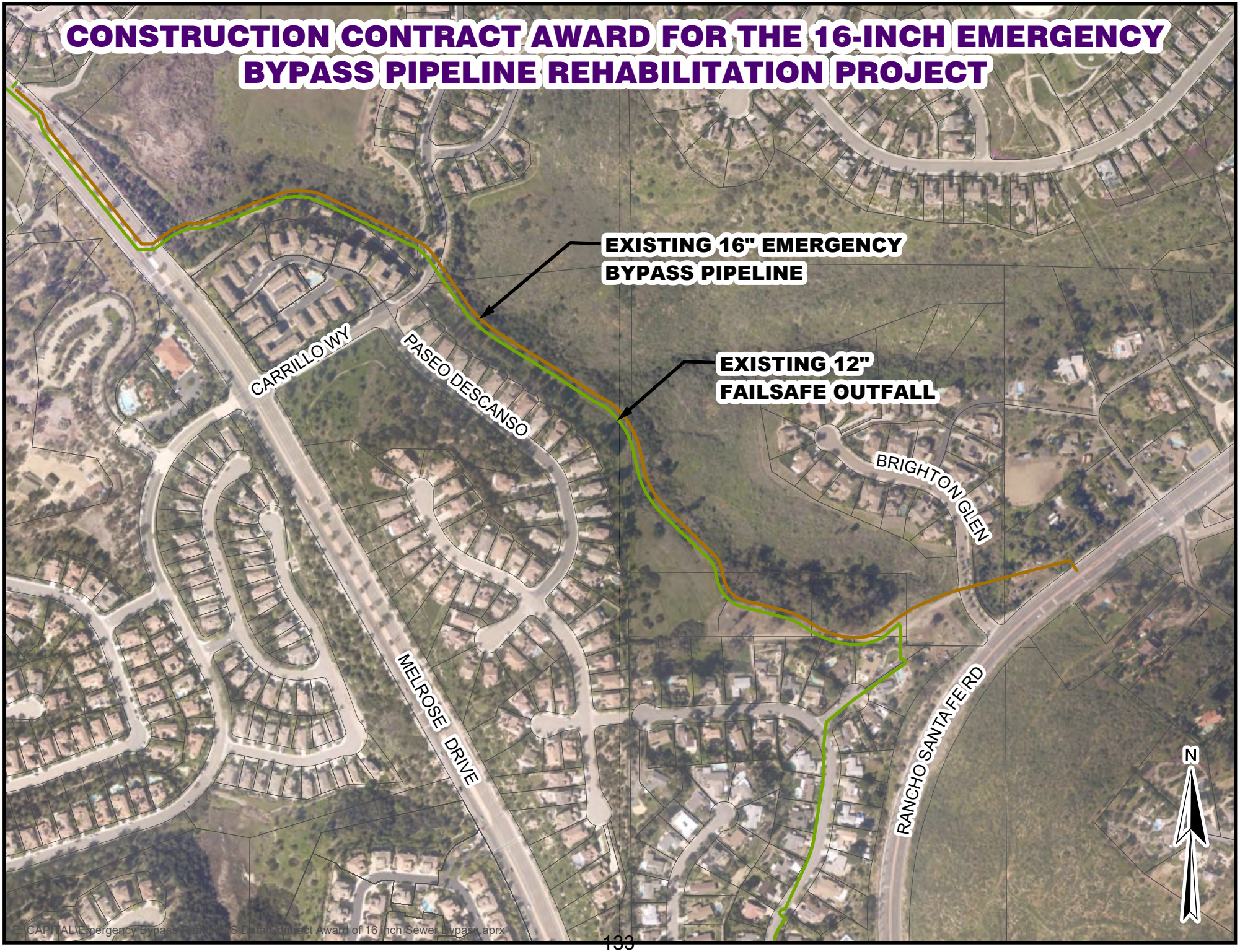
RECOMMENDATION:

Staff recommendation for the 16-Inch Emergency Bypass Pipeline Rehabilitation Project are as follows:

1. Authorize the General Manager to execute a construction contract with Burtech Pipeline in the amount of $1,696,000 subject to provisions of the contract, and
2. Authorize the General Manager to execute a Professional Services Agreement with Valley Construction Management in the amount of $285,080.

ATTACHMENT(S):

Aerial exhibit


CONSTRUCTION CONTRACT AWARD FOR THE 16-INCH EMERGENCY BYPASS PIPELINE REHABILITATION PROJECT
EXISTING 16" EMERGENCY BYPASS PIPELINE
EXISTING 12" FAILSAFE OUTFALL
CARRILLO WY
PASEO DESCANSO
BRIGHTON GLEN
MELROSE DRIVE
RANCHO SANTA FE RD
N
E:\CAPITAL\Emergency Bypass Rehab\GIS Data\Contract Award of 16 inch Sewer Bypass.aprx

DATE: **SEPTEMBER 7, 2022**
TO: **BOARD OF DIRECTORS**
SUBJECT: **FISCAL YEAR 2022 TACTICAL PLAN INITIATIVES FINAL REPORT**

BACKGROUND:

At its meeting on December 15, 2021, the Board adopted Strategic Plan 2022. The plan lays out the District's strategic direction for the next 5 to 6 years. The strategic direction was broken into 6 Strategic Focus Areas (SFAs). Each SFA also contained a number of Supporting Strategies (SSs), which more clearly defined the objectives of each of the SFAs. Listed below are the SFAs and SSs contained within Strategic Plan 2022:

1. Infrastructure Integrity:
    - Operations and Maintenance
    - Asset Management and Replacement
    - Facility Planning
2. Organizational Improvement/Efficiency:
    - Technology
    - Continuous Improvement
    - Performance Measurement
3. Workforce Excellence:
    - Employee Engagement
    - Employee Recruitment and Retention
    - Employee Training and Development
4. Fiscal Responsibility:
    - Fiscal Management
    - Operating and Capital Facility Reserve Funding
    - Customer Rates and Charges
5. Public Information and Outreach:
    - Customer Outreach
    - School Outreach
    - Water Use Efficiency
    - Public/Private Partnerships
6. Environmental Stewardship:
    - Water Resources
    - Water Supply Management
    - Renewable Resources
    - Natural Environment Protection

In order to attain the vision contained in the Strategic Plan, staff developed an implementation plan, describing how the SFAs and SSs will be accomplished. The implementation plan, called the Tactical Plan, contains a series of Tactical Plan Initiatives (TPI). At its meeting on March 2, 2022, the Board adopted the Fiscal Year (FY) 2022 Tactical Plan. This plan contains 37 initiatives and covers the time period from March 2, 2022, through June 30, 2022. The Board directed staff to provide a status update at the end of the reporting period.

DISCUSSION:

Each TPI was assigned to the appropriate staff and its progress was tracked. The final progress of each TPI was placed into one of 3 categories:

- Completed,
- In Process, but not Fully Completed, and
- Not Initiated

Of the 37 TPIs contained in the FY 2022 Tactical Plan, 19 were Fully Completed, 16 were in process but not fully completed, and 2 were not initiated. Overall, 94.6% of the FY 2022 TPIs were either fully or partially completed. This success rate is very good, particularly given the short 4-month working window. The FY 2022 Tactical Plan Initiatives Report Card is attached to this report, showing the progress of each of the TPIs.

TPIs which were not completed will be rolled into the FY 2023 Tactical Plan, which will be presented to the Board at a future date.

FISCAL IMPACT:

There is no fiscal impact associated with this item.

RECOMMENDATION:

This is an informational item.

ATTACHMENT(S):

FY 2022 Tactical Plan Initiatives Report Card

FY22 TACTICAL PLAN INITIATIVES REPORT CARD

STRATEGIC FOCUS AREA NO. 1: INFRASTRUCTURE INTEGRITY			TPI #	STATUS			
SUPPORTING STRATEGY	TACTICAL PLAN INITIATIVE	DEPARTMENT		NOT INITIATED	IN PROCESS	COMPLETED	COMMENT
Operations and Maintenance	Analysis and Report of NO-DES waterline flushing system	Operations & Maintenance	1.1.1			X	
Operations and Maintenance	Develop and Implement Sanitary Sewer Overflow (SSO) Emergency Response Training Program	Operations & Maintenance	1.1.2			X	
Operations and Maintenance	Construction and Acceptance of MRF Bio-Selector/Aeration Basins Improvements	Engineering/Capital Facilities	1.1.3			X	Construction completed; Board Accepted July 20, 2022.
Operations and Maintenance	Finalize Agreement and Advertise Bid for Meadowlark Failsafe Replacement (Buena Reach)	Engineering/Capital Facilities	1.1.4		X		Delayed due to BSD taking legal exception to legacy 1981 agreement; Currently working with BBK on obtaining BSD approval per the agreement and negotiate BSD's buy-out of the agreement; 90% Plan review completed by VWD, BSD, and City of Carlsbad; Anticipating executing Letter Agreement and completing Plans by August 31 with bid advertisement targeted for Sept 2022, pending any further legal delay.
Operations and Maintenance	Award Construction Contract for Sage Canyon Tank Refurbishment	Engineering/Capital Facilities	1.1.5			X	Project awarded January 12, 2022
Operations and Maintenance	Award Construction Contract for Emergency Bypass Rehabilitation Project	Engineering/Capital Facilities	1.1.6		X		Bid advertisement began July 15 with bid opening scheduled for August 25; Award scheduled for Sept.
Asset Management and Replacement	Develop annual report on pump & motor efficiencies	Operations & Maintenance	1.2.1		X		Program is in Excel. Still need to write the report in Word format. (6-30-2022)

TACTICAL PLAN 2022

STRATEGIC FOCUS AREA NO. 1: INFRASTRUCTURE INTEGRITY			TPI #	STATUS			
SUPPORTING STRATEGY	TACTICAL PLAN INITIATIVE	DEPARTMENT		NOT INITIATED	IN PROCESS	COMPLETED	COMMENT
Asset Management and Replacement	Issue RFP and Select Consultant for Asset Management Plan (Renewal/Replacement)	Engineering/ Asset Management	1.2.2			X	RFP issued March 2022; 5 Proposals received May 5, 2022; Consultant selected July 2022; PSA award presented to the E&E Cmte August 4th; PSA award to be considered by the Board September 7, 2022.
Facility Planning	Advertise Bid for Montiel Lift Station and Forcemain Replacement Project	Engineering/Capital Facilities	1.3.1		X		90% Plans complete; Final Design Plans delayed due to continued coordination for easement acquisitions between Coles Carpets and Hotel Leora Lane; Easement acquisition on-going; Bid advertisement scheduled for October 2022.
Facility Planning	Advertise RFP for Land Outfall Parallel Sewer Siphon (& Gravity) Section A Replace	Engineering/Capital Facilities	1.3.2	X			Delayed due to shifting priorities in other CIP projects, funding constraints, and staffing impacts; Revise Tactical Initiative to advertise RFP by June 30, 2023.

TACTICAL PLAN 2022

STRATEGIC FOCUS AREA NO. 2: ORGANIZATIONAL IMPROVEMENT/EFFICIENCY							
SUPPORTING STRATEGY	TACTICAL PLAN INITIATIVE	DEPARTMENT		NOT INITIATED	IN PROCESS	COMPLETED	COMMENT
Technology	Select Integrator Consultant for SCADA Upgrade Project	Assistant General Manager/ Information Technology	2.1.1			X	Complete. VWD staff selected Enterprise Automation (Consultant) unanimously as they provided most comprehensive RFP response. Vendor has been onboarded and is working on initial SCADA assessment.
Technology	Install Software Upgrades for all 3 ERP Systems (Maintenance, Billing, Finance/HR)	Assistant General Manager/ Information Technology	2.1.2			X	Complete.
Technology	Complete Department of Homeland Security Upgrades for Critical Infrastructure Hardware (Year 1)	Assistant General Manager/ Information Technology	2.1.3			X	2 year initiative. Approximately 50% of all items identified in DHS' report have been remediated. Year 1 effort is complete and project is on track
Continuous Improvement	Finalize and Reporting of Maximo plan check process	Engineering/ Development Services	2.2.1		X		Reporting completed, but staff continues to analyze and resolve data.
Performance Measurement	Update Board reports on Annual Change Order percentage less than 5%	Engineering/Capital Facilities	2.3.1			X	Completed; CIP Annual Report reported to the E&E Cmte on July 26 and to the Board of Directors on August 3; FY 21/22 Change Order percentage = 3.52%.

TACTICAL PLAN 2022

STRATEGIC FOCUS AREA NO. 3: WORKFORCE EXCELLENCE							
SUPPORTING STRATEGY	TACTICAL PLAN INITIATIVE	DEPARTMENT		NOT INITIATED	IN PROCESS	COMPLETED	COMMENT
Employee Engagement	Conduct "Stay Interviews" of Key Staff	Administrative Services/ Human Resources	3.1.1		X		29 interviews conducted for 22 depts (including Management). 4 interviews in O&M pending due to COVID outbreak.
Employee Recruitment and Retention	Research Work Schedule Policies to Increase Flexibility	Administrative Services/ Human Resources	3.2.1		X		Implemented new work schedules for various departments; developed a draft policy for Telecommuting.
Employee Recruitment and Retention	Develop policy to incentivize employees providing Early Retirement Notice	Administrative Services/ Human Resources	3.2.2		X		Researched concept and reviewed policies; defer development until negotiations due to meet and confer requirements.
Employee Training and Development	Obtain SDLF's District of Distinction Platinum Level - GM to attend SDLF Study Group	General Manager	3.3.1			X	General Manager is enrolled in SDLF CSDM Study Group. Group will conclude after the end of the FY.
Employee Training and Development	Conduct annual Soft Skills Training for all employees	Administrative Services/ Human Resources	3.3.2		X		Scheduled training with EAP provider Anthem; cancelled due to COVID outbreak.
Employee Training and Development	Conduct Ethics Training for all employees	Administrative Services/ Risk & Safety	3.3.3			X	104 employees completed online training in April and May. 1 employee pending; currently on a Leave of Absence.

TACTICAL PLAN 2022

STRATEGIC FOCUS AREA NO. 4: FISCAL RESPONSIBILITY							
SUPPORTING STRATEGY	TACTICAL PLAN INITIATIVE	DEPARTMENT		NOT INITIATED	IN PROCESS	COMPLETED	COMMENT
Fiscal Management	Develop desalinated water delivery tracking system	Operations & Maintenance	4.1.1			X	
Fiscal Management	Update Developer Bonding process	Engineering/ Development Services	4.1.2			X	Completed.
Fiscal Management	Evaluate Water/Sewer Capacity Issue - present issue to Policy Committee	Engineering/ Development Services	4.1.3		X		Evaluation started and on track to complete in FY22/23.
Fiscal Management	Review and update fixed asset listing in GEMS	Finance	4.1.4		X		17 Deletions to date @ $355K
Fiscal Management	Implement new customer web interface for billing and payments	Finance/Customer Service	4.1.5		X		Go live is July 19th
Fiscal Management	Complete transition of financial reports from Skyview to report manager	Finance	4.1.6			X	All reports have been transitioned
Customer Rates and Charges	Develop new water rate model and implement annual process for updating	Finance	4.3.1		X		Rate model has been developed. COSS to board tentatively July 20th
Customer Rates and Charges	Minimize controllable budgeted cost increases	Finance	4.3.2			X	Water increase 2.95% or $381k Sewer increase 3.38% or $465k

TACTICAL PLAN 2022

STRATEGIC FOCUS AREA NO. 5: PUBLIC INFORMATION AND OUTREACH							
SUPPORTING STRATEGY	TACTICAL PLAN INITIATIVE	DEPARTMENT		NOT INITIATED	IN PROCESS	COMPLETED	COMMENT
Customer Outreach	Inform Customers on "Where does our water come from"	Administrative Services/ Public Information	5.1.1			X	https://www.vwd.org/about-us/where-our-water-comes-from
School Outreach	Develop an intern program for Palomar College students	Administrative Services/ Public Information	5.2.1		X		Greg Gauthier delayed due to COVID outbreak in O&M
Water Use Efficiency	Develop monthly videos in partnership with EPA Watersense	Administrative Services/ Public Information	5.3.1		X		https://www.vwd.org/departments/conservation-and-outreach/epa-watersense
Public/Private Partnerships	Partner with the City of San Marcos on hydration stations in parks	Administrative Services/ Public Information	5.4.1			X	Event held on May 7, 2002 "Wags and Water Festival"

TACTICAL PLAN 2022

STRATEGIC FOCUS AREA NO. 6: ENVIRONMENTAL STEWARDSHIP							
SUPPORTING STRATEGY	TACTICAL PLAN INITIATIVE	DEPARTMENT		NOT INITIATED	IN PROCESS	COMPLETED	COMMENT
Water Resources	MRF Direct Potable Reuse Feasibility Evaluation - Advertise RFP	Engineering/ Development Services	6.1.1	X			Delayed due to staff transitions and increase in development projects in Q3 and Q4; anticipate advertise RFP by March 31, 2023
Water Supply Management	Prepare Water Loss Validation	Engineering/ Development Services	6.2.1		X		Water Loss Validation Training completed in July 2022; Water Loss Validation initiated by the Finance Department to be completed by October 1, 2022 per State regulations
Renewable Resources	Develop a Plastics Policy	Administrative Services/ Public Information	6.3.1			X	Resolution 1604 passed on February 2, 2022.
Renewable Resources	Create Master Plan for Fleet Replacement to comply with new CARB regulations	Operations & Maintenance	6.3.2			X	