CRESCENTA VALLEY WATER DISTRICT

2700 Foothill Boulevard
La Crescenta, California

Agenda for the
Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on Tuesday, September 12, 2023, at 7:00 p.m.

Posted: Friday, September 8, 2023 at 4:30 p.m.

This meeting will be conducted in person at the address listed above. Members of the public may also participate virtually by using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increased phone traffic)

(669) 900-6833	**(346) 248-7799**	**(929) 205-6099**
(253) 215-8782	**(301) 715-8592**	**(312) 626-6799**

Then, enter Access Code: 889 9780 5167

Those members of the public who are able to and would like to additionally participate through computer may access the Zoom audio & video conferencing tool available at the following link:

https://us02web.zoom.us/j/88997805167

If there is a disruption of service, this meeting will continue without remote participation. The remote participation option is provided as a convenience to the public and is not required.

Public comment may be made either by emailing comments ahead of the meeting or by speaking over the phone. Emailed comments will be sent to the Board of Directors prior to the meeting and posted on the District's website. Comments may be sent to customer service, at (818) 248-3925 or customerservice@cvwd.com by 3pm on September 12, 2023.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at the above email address. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Any written materials distributed to the Board in connection with this agenda will be made available at the same time for public inspection at the District office located at the above address and posted on the District's website.

Call to Order and Determination of Quorum

Pledge of Allegiance

Adoption of Agenda

Public Comments

At this time, the public shall have an opportunity to comment on any non-agenda item relevant to the subject matter jurisdiction of the Board. This opportunity is non-transferable, and speakers are limited to one three-minute (3) comment. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Foothill Municipal Water District Report

1. Report on activities at Foothill Municipal Water District.

Consent Calendar

1. Consideration and approval of the Minutes of the Adjourned Regular Board Meeting on August 22, 2023.

Action Calendar

The public shall have an opportunity to comment on any action item as each item is considered by the Board. This opportunity is non-transferable, and speakers are limited to one two-minute (2) comment.

1. **2434 Foothill Blvd.** – Appeal by developer for reduction in development-related connections fees.
2. **LAFCO Special District Alternate Member Ballot** – Consideration and motion to cast the District's ballot for the LAFCO Special District Alternate Member.
3. **Job Descriptions** – Consideration and motion to approve new descriptions and salary ranges for three positions – Customer Service and Inspection Field Representative, Regulatory and Public Affair Specialist, and Senior Management Analyst.
4. **Resolution 787, Acceptance of Water Facilities at 2341 Mira Vista Ave., Project D-21-23** – Consideration and motion to adopt Resolution No. 787 and to authorize the General Manager to accept the water facilities at 2341 Mira Vista Avenue.

Information Items

Written Communications to District/Board of Directors

General Manager's Report

Attorney Report

Reports of Committees

- **Engineering Committee**
- **Finance Committee**
- **Employee Relations Committee**
- **Policy Committee**
- **Community Relations/Water Conservation Committee**
- **Emergency Planning Committee**
- **Technology Committee**

Directors' Oral Reports – Reports on issues, meetings, or activities attended by Directors.

Board Members' Request for Future Agenda Items

Closed Session

Adjournment

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CRESCENTA VALLEY WATER DISTRICT
ADJOURNED REGULAR MEETING, BOARD OF DIRECTORS
August 22, 2023

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District made at the Adjourned Regular Meeting on July 25, 2023, an Adjourned Regular Meeting was held on August 22, 2023, at 7:00 p.m. at the District office at 2700 Foothill Blvd., La Crescenta, California and through audio and video conference. A call-in number was clearly noted on the meeting Agenda, posted in accordance with the Brown Act, with President Sharon Raghavachary presiding.

At roll call, the following Directors and staff members were present or online:

Directors:	**James D. Bodnar** **Kerry D. Erickson** **Jeffery W. Johnson** (absent) **Sharon S. Raghavachary** **Judy L. Tejeda**
Attorney:	**Thomas Bunn**
Interim General Manager:	**James Lee**
Interim Director of Engineering and Operations:	**Brook Yared**
Staff Members:	**Arturo Montes, Finance & Administration Manager** **Kellen Boyce, System Operations Manager** **Darlene Telles, Operations & Maintenance Manager** **Tessa Allmon, Customer Service Lead** **Pam Leddy, Administrative Assistant**
Guests:	**Michael Chonos** **Frank Colcord** **George Solymar** **Marilyn Tyler** **John Rossi, Ralph Andersen & Associates**

PLEDGE OF ALLEGIANCE

Mr. Rossi opened the meeting by leading the Directors and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Bodnar, seconded by Director Erickson, and carried by a 4-0 vote that the Agenda for the Adjourned Regular Meeting of August 22, 2023, be adopted.

PUBLIC COMMENTS – Ms. Tyler read aloud a public comment requesting the repeal of Resolutions 785 and 786 referencing the capital charge on the property tax Roll and distributed copies to each Director and staff. Mr. Chonos commented on the current sentiment of the community after the approval of the capital charge. Mr. Solymar provided comments and circulated written questions posing a number of questions related to the capital charge and the associated Prop 218 notice.

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Mr. Colcord announced that Mr. John Vrsalovich has been appointed as the Director representing Division 2 of Foothill Municipal Water District. Mr. Colcord stated that he has placed his name on the ACWA ballot to represent Region 8. He stated that the FMWD Board voted to modify its mission statement to recognize the agency's and industry's interdependent relationship with climate and climate change along with the approval of a RFP to develop a climate action plan calculating and reporting greenhouse gas emissions on an annual basis and identifying regulatory requirements. Mr. Colcord announced that Mr. Bryant will be replacing Mr. Atwater as the FMWD representative to the Metropolitan Water District. Mr. Colcord shared that FMWD will be adding the first electric-powered truck to its fleet and installing a charging station.

CONSENT CALENDAR

It was moved by Director Erickson, seconded by Director Bodnar and carried by a 4-0 vote to approve the Minutes of the Adjourned Regular Board Meeting held on July 25, 2023, with the requested omission of the roll call vote reference on the consent calendar item, and to ratify the disbursements for July 2023 which consisted of:

Payment of demands against the Crescenta Valley Water District on or before July 2023, the same having been approved by the General Manager, and heretofore paid, are to be ratified and approved subject to audit, in the aggregate sum of One Million, Forty-Seven Thousand, Eight-Hundred Eleven Dollars and Sixty-Seven Cents ($1,047,811.67), which is composed of the individual items set forth herein.

ACTION CALENDAR

INFORMATION ITEMS – CV Weekly, August 17, 2023 "Pipes Fail Causing Flooding in the Crescenta Valley" and "CVWD Work Near Monte Vista".

WRITTEN COMMUNICATIONS TO DISTRICT – Letters dated June 26, 2023, from Kathryn Barger's office, a Public Comment for CVWD Board Meeting on Tuesday, July 25, 2023 and an "Addendum to CVWD Property Fee – Legal Challenge" dated July 30, 2023 from Marilyn Tyler, and an email dated August 17, 2023 from Mr. Lyans.

GENERAL MANAGER – Ms. Telles and Mr. Yared provided detailed information regarding the main break on the 3000 block of Montrose and 4900 block of El Sereno which occurred on Friday, August 11th. Mr. Lee announced he and Ms. Telles had met with the Los Angeles County Fire Department Assistant Chief and the La Crescenta Sheriff Briggs Station's Captain to incorporate their agencies into CVWD's Emergency Response Plan. Mr. Lee said that plans include joint ventures with future public outreach events, exploring the use of the Glenwood facility as an Incident Command Center, and pursuing grant funding to install landing pads on its reservoirs for fire-fighting helicopters. Mr. Lee encouraged the directors and staff to attend the Reservoir site dedication ceremony on Tuesday, September 26th honoring Judy Tejeda for over

30 years of service. Mr. Yared provided details of the July Engineering Report, stating that 117.4 MG of water was produced for the month, representing a 51%/49% split.

ATTORNEY REPORT – No report

REPORTS OF COMMITTEES

Engineering and Operations Committee – Director Erickson reported that the Committee had not met; however, a meeting will be scheduled as needed.

Finance Committee – Director Raghavachary reported that the Committee had met on August 18, 2023 and discussed bond financing, bill assistance program, reserve fund revisions, rate study objectives and timeline, and public outreach meetings held at the La Crescenta Public Library meeting room. A meeting will be scheduled as needed.

Employee Relations Committee – Director Bodnar reported that the Committee had not met; however, a meeting is scheduled for August 23, 2023.

Policy Committee – Director Raghavachary reported that the Committee had met not met; however, a meeting will be scheduled as needed.

Community Relations/Water Conservation Committee – Director Raghavachary reported that the Committee had not met; however, a meeting is scheduled for August 23, 2023.

Emergency Planning Committee – Director Tejeda reported that the Committee had not met; however, a meeting will be scheduled as needed.

Executive Committee – Director Raghavachary reported that the Committee met on August 15, 2023. A meeting will be scheduled as needed.

Technology Committee – Director Bodnar reported that the Committee had not met; however, a meeting will be scheduled as needed.

DIRECTORS' ORAL REPORTS

Director Bodnar – No report

Director Erickson – Reported that he would not be attending the September 12, 2023 Board meeting and will possibly be unable to attend the September 26, 2023 meeting.

Director Johnson – Absent

Director Raghavachary – No report

Director Tejeda – No report

BOARD MEMBERS REQUESTS FOR FUTURE AGENDA ITEMS – None

CLOSED SESSION – No reportable action.

ADJOURNMENT

There being no other business to come before the Board, at 8:58 p.m., the meeting was adjourned to September 12, 2023, at 7:00 p.m.

APPROVED

_____	_____
Sharon S. Raghavachary	James Lee
President	Interim General Manager

CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1
September 12, 2023

To: Honorable President and Members of the Board of Directors

From: Brook Yared, MS, PE – Interim Director of Engineering and Operations

Subject: **Request for Relief from Connection Fee Reassessment – 2432-2434 Foothill Blvd.**

ACTION ITEM:

Consideration and possible action to grant a request for relief from a connection fee reassessment by Garo Nazarian for the proposed development at 2432-2434 Foothill Blvd.

BACKGROUND:

Garo Nazarian is the owner/developer (Developer) of the property located at 2432-2434 Foothill Blvd. On July 20, 2022, the Developer was assessed connection fees for a new 31-unit apartment building. Connection fees are adjusted every fiscal year to account for CIP spending that was paid for by CVWD rate payers that developers have not contributed to for their proposed development.

The property was assessed based on FY 22/23 rates. The water system connection fee at that time was $163,990 and the sewer system fee was $110,263, for a total of $274,253. If reassessed using FY 23/24 rates, the water system connection fee would be $223,665 and the sewer system connection fee would be approximately $112,433, for a total of $336,098. Some of the sewer connection fee increase is unavoidable as it is tied to CVWD's wastewater treatment agreement with the City of Los Angeles Bureau of Sanitation.

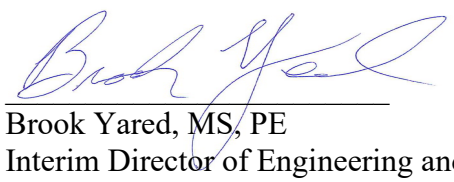
DISCUSSION:

As stated in Mr. Nazarian's letter to the Board (see attached), he was unable to make the payment during the eleven (11) month period in FY 22/23 since receiving the original invoice due to medical issues. Per CVWD Rules and Regulations section Appendices E & H and as stated on the original invoice, fees are recalculated every year and all developers require reassessment if their invoice is not paid before the fiscal year ends. the District's Rules and Regulations are intended to apply uniform treatment across all developers regardless of background, situation, or circumstance. Breaking from the Rules and Regulations to accommodate Mr. Nazarian's request would require Board approval.

RECOMMENDATION

Staff recommends that the Board consider Mr. Nazarian's appeal of his connection fee reassessment.

Prepared & submitted by:



Brook Yared, MS, PE
Interim Director of Engineering and Operations

Attachment(s):
1. Letter to the Board from Garo Nazarian

\\cvwd-fs1.ntdcvwd.local\data\management\board meeting staff reports\2023\09-12-23 board memo - connection fee reassessment appeal 2434-2432 foothill.docx

Attachment

DOMUS DESIGN

9/4/2023

To: Crescenta Valley Water District
Board of Directors
2700 Foothill Blvd. La Crescenta CA 91214

Re.: 2434- 2432 Foothill Blvd.
A 31 units apartment building project, providing 3 affordable Units.

Request: To accept previously water fee calculated amount for new water Service.

Dear Board Members.

We respectfully request the acceptance of the previously fee calculated for this project, and approve the amount calculated about one year ago.

Due to my Health problems, I had in past 30 months I couldn't finish the project on time

2 ½ years ago I been diagnosed with Cancer, and most of mt time I was in Hospital for treatment and follow up this issue, and this caused delay to finish the project on time.

Later I had Heart problem in April of 2023 I had open heart surgery, not very successful, I should have another procedure On September 27 th

I appreciate your understanding my conditions which disabled me to work efficiently.

Type text here

Please consider my request, and help me out of this situation,

I understand my health issue is not your problem, but really having another financial burden will be too much for me.

Sincerely Yours

Domus Design

Garonazarian

By Garo Nazarian

109 E. Harvard St. Suite 306, Glendale, CA 91205. Telephone: (818) 500-3966 / Fax: 818 (818) 548-8108 Email: info@DomusDesignUSA.net

CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
September 12, 2023

To: Honorable President and Members of the Board of Directors

From: James Lee – Interim General Manager

Subject: **Ballot for LAFCO Special District Alternate Member**

ACTION ITEM:

Nomination for Special District LAFCO Alternate Member – Consideration and motion to cast the District's ballot for the LAFCO Special District Alternate Member.

BACKGROUND:

At the July 26, 2023 Board meeting, the Board supported Director Sharon S. Raghavachary's nomination as a candidate for the Local Area Formation Commission (LAFCO) Special District Alternate Member for the term expiring in May 2026.

LAFCO has retained Mr. William Kruse of Lagerlof, LLP to conduct the election for the position. Mr. Kruse has informed the District that the five (5) nominees for Special District LAFCO Alternate Member are:

- Director Sharon Raghavachary - Crescenta Valley Water District, Water District Board President
- Micah Ali – Compton Creek Mosquito Abatement District, Board of Trustees
- Steven Appleton – Greater Los Angeles County Vector Control District, Board of Directors
- Stephen Brown – Kinneloa Irrigation District, Water District Director
- Gary Burns – Las Virgenes Municipal Water District, Water District Director

Included in this package are the ballot forms and the resumes for each nominee. Ballots must be received at the offices of Lagerlof, LLP no later than 5:00 pm on October 27, 2023.

Submitted by:

James Lee
Interim General Manager

Attachment(s):
1. Instructions, Ballot, and Candidacies for LAFCO Special District Alternate Member

g:\management\board meeting staff reports\2023\09-12 board memo - Ballot for LAFCO Independent Special District Alternate Member.docx

Attachment

Lagerlof LLP
LAWYERS

MEMORANDUM

TO: PRESIDING OFFICER OF EACH INDEPENDENT SPECIAL DISTRICT IN LOS ANGELES COUNTY

FROM: WILLIAM F. KRUSE

RE: BALLOT; SPECIAL DISTRICT LAFCO REPRESENTATIVE

DATE: August 30, 2023

Enclosed is the Ballot and the supplementary materials submitted for each of the candidates for Special District LAFCO **ALTERNATE MEMBER** for the term expiring in May 2026. Nominations closed as of 5:00 p.m. on August 25, 2023.

Please vote for ONE candidate for the position. The marked ballot should be placed in the envelope marked "Ballot Envelope" and sealed. Please write the name of your agency and sign your name on the outside of the ballot envelope and return the completed ballot by mail to:

William F. Kruse, Esq.
Lagerlof, LLP
155 N. Lake Avenue, 11th Floor
Pasadena, CA 91101.

No ballot will be counted if it is missing the name of the voting agency and the signature of the Presiding Officer on the ballot envelope.

The candidate receiving the highest number of votes will be declared the Special District **Alternate Member** to LAFCO.

Ballots must be returned by 5:00 p.m. on October 27, 2023.

WFK/dc
Enclosures

cc(w/ encls.): Paul Novak

Lagerlof LLP
155 N Lake Avenue, 11th Flr
Pasadena, CA 91101

Lagerlof.com
Email: wfkruse@lagerlof.com

T: (626)-793-9400
F: (626)-793-5900

Attachment

BALLOT

SPECIAL DISTRICT LAFCO **ALTERNATE MEMBER**

Please vote for no more than one candidate.

☐ **MICAH ALI**
Occupation: Board of Trustees
Sponsor: Compton Creek Mosquito Abatement District

☐ **STEVEN APPLETON**
Occupation: Board of Directors
Sponsor: Greater Los Angeles County Vector Control District

☐ **STEPHEN H. BROWN**
Occupation: Board of Directors
Sponsor: Kinneloa Irrigation District

☐ **GARY BURNS**
Occupation: Board of Directors
Sponsor: Las Virgenes Municipal Water District

☐ **SHARON S. RAGHAVACHARY**
Occupation: Board of Directors
Sponsor: Crescenta Valley Water District

Attachment

NOMINATION
OF
INDEPENDENT SPECIAL DISTRICT **ALTERNATE MEMBER**
TO THE
LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

To: Independent Special District Selection Committee

From: Mitchel R. Weinbaum

Date: August 23,2023

Name of Candidate: Mr. Micah Ali

Compton Creek Mosquito Abatement District is pleased to nominate Mr. Micah Ali as a candidate for appointment as special district alternate member to the Los Angeles Local Agency Formation Commission. The nominee is an elected official or a member of the board of an independent special district appointed for a fixed term. For your consideration, we submit the following additional information together with a resume of the candidate's qualifications.

Elective office: President, Board of Trustees

Agency: Compton Creek Mosquito Abatement District

Type of Agency: Special District, Mosquito Abatement District

Term Expires: 2025

Residence Address: 1224 S. Santa Fe Ave, Compton, CA 90221

Telephone: (310) 933-5321

PLEASE ATTACH RESUME OR CANDIDATE STATEMENT (limit one page)

Compton Creek Mosquito Abatement District
(Name of Agency)

By: Mitchel R Weinbaum

Its: General Manager

Micah Ali

Strategist, Consultant, Public Sector And Governance Expert

Experienced strategist, catalyst for innovation and organizational effectiveness. Regarded as a pioneer in public affairs/government relations and board governance for clients in public education, public health and economic development spheres. Catalyzes private/public partnerships, coalition building and broad based initiatives intended to achieve impact in areas often deemed resistant to change. Co-author of the California Association of Black School Educators' Blueprint for Education Equity

EXPERIENCE AND ACCOMPISHMENTS

Founder, Managing Director
Synergistic Solutions Consulting
November 2004-Present

Strategy consultancy providing expertise in organizational culture, politics, and effective practices of School Boards and School District leadership, as well as other governmental and global organizations seeking to achieve next level results, sustainable change and improving overall organizational performance.

CONSULTING AREAS

Government Affairs and Crisis Management.
Land Use and Development Consulting
High-stakes and Large Project Negotiation
Community Development

Director
Los Angeles County Education Foundation
July 2012 - January 2014

Expanded supports for public schools across Los Angeles County in the area by way of innovation in health and education policy, including large-dollar investment projects, public education and achievement initiatives for districts across Los Angeles County, and innovated policy efforts.

Project Manager
Raytheon Space and Airgorne Systems
October 2008 - June 2012

Oversee and ensure the successful completion of complex projects across several divisions of the global technology and aerospace organization.

Special Assistant, Government Relations
California State Legislature, Assemblymember Merv Dymally
August 2006 - November 2008

Established and maintained relationships with strategic community leaders, legislators, legislative aides, local elected officials, business trade leaders, public health agencies and organizations, charitable organizations, school districts, health care industry leaders and grassroots constituency groups.

OTHER POSITIONS HELD

Project Coordinator
Boeing Satellite Systems
July 2003- October 2004

Project Manager, Policy and Governmental Affairs
Community Redevelopment Agency
August 2002 - July 2003

Council Liaison Officer, Government Relations
City of Compton
August 1998 - August 2002

SKILLS

High-Stakes Negotiation | Board Effectiveness | Gov't/Private Partnerships | National/State Policy

EDUCATION

Loyola Marymount University
Masters of Arts in Education
School Administration

California State University, Dominguez Hills
Bachelor of Science
Public Administration

CIVIC & COMMUNITY INVOLVEMENT

Chair-elect
National Black Council of School Board Members

Chair Emeritus,
Council of Urban Boards of Education

Founder and President Emeritus
California Association of Black School Educators

President
Compton Unified School District Board of Trustees

President Emeritus
Los Angeles County School Trustees Association

President
Compton Creek Mosquito Abatement District Board of Trustees

Emeritus Member
National School Boards Association

Emeritus Member
California School Boards Association

Immediate Past Member
California Racial and Identity Profiling Advisory Board

Alternate
South Coast Air Quality Management District Hearing Board

INTERESTS

Education Innovation | Environmentalism | Land Use and Improvement Projects | Community Development | K-12 Education Systems

Attachment

NOMINATION
OF
INDEPENDENT SPECIAL DISTRICT **ALTERNATE MEMBER**
TO THE
LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

To: Independent Special District Selection Committee

From: **GREATER LOS ANGELES COUNTY VECTOR CONTROL DISTRICT**

Date: **AUGUST 10th, 2023**

Name of Candidate: **STEVE APPLETON**

GREATER LOS ANGELES COUNTY VECTOR CONTROL DISTRICT is pleased to nominate **STEVE APPLETON** as a candidate for appointment as special district alternate member to the Los Angeles Local Agency Formation Commission. The nominee is an elected official or a member of the board of an independent special district appointed for a fixed term. For your consideration, we submit the following additional information together with a resume of the candidate's qualifications.

Elective office: **BOARD OF DIRECTOR**

Agency: **GREATER LOS ANGELES COUNTY VECTOR CONTROL DISTRICT**

Type of Agency: **SPECIAL DISTRICT**

Term Expires: **MAY, 2026**

Residence Address: **2825 BENEDICT STREET**
LOS ANGELES, CA 90039

Telephone: **310/740-7294**

PLEASE ATTACH RESUME OR CANDIDATE STATEMENT (limit one page)

GREATER LOS ANGELES COUNTY VECTOR CONTROL DISTRICT
(Name of Agency)

By: _____

Its: **BOARD SECRETARY**

Steven Appleton

Technical knowledge, interdisciplinary skills, and a collaborative approach

As the past President of the Greater Los Angeles County Vector Control District (2020) and the current Trustee for the City of Los Angeles, I have worked in collaboration with many public agencies. I have also engaged with municipal, State and Federal partners around watershed improvement and ecological restoration projects.

I serve as Board Member on the Los Angeles County Second District Consolidated Oversite Board and has served in a variety of capacities on watershed issues, including as a Technical Stakeholder to the yearly "State of the Watershed" report for the Los Angeles Region by the Council on Watershed Health. My interests and experience are especially attuned to balancing issues related to climate change, watershed protection, water quality improvement, parkland, and community engagement.

As a commissioner I would endeavor to render decisions in the best interest of the diverse set of Special Districts and the citizenry of the region. As those who have worked with me in local and regional agencies can attest, I show up ready and prepared to contribute, approaching issues in a collaborative manner.

Please consider voting for me as a Special District Alternative Commissioner to the Los Angeles Local Agency Formation Organization (LA LAFCO).

Sincerely,

Attachment

NOMINATION
OF
INDEPENDENT SPECIAL DISTRICT **ALTERNATE MEMBER**
TO THE
LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

To: Independent Special District Selection Committee

From: Tom Majich, General Manager, Kinneloa Irrigation District

Date: August 23, 2023

Name of Candidate: Stephen H. Brown

Kinneloa Irrigation District is pleased to nominate Stephen H. Brown as a candidate for appointment as special district alternate member to the Los Angeles Local Agency Formation Commission. The nominee is an elected official or a member of the board of an independent special district appointed for a fixed term. For your consideration, we submit the following additional information together with a resume of the candidate's qualifications.

Elective office: Board of Directors

Agency: Kinneloa Irrigation District

Type of Agency: Special District, Public Water Agency

Term Expires: December 5, 2025

Residence Address: 1906 Country Lane; Pasadena, CA 91107

Telephone: (202) 744-5578

PLEASE ATTACH RESUME OR CANDIDATE STATEMENT (limit one page)

Kinneloa Irrigation District
(Name of Agency)

By: _____

Its: General Manager

STEPHEN H. BROWN

My name is Stephen Brown and I am seeking to fill the recent vacancy of Alternate for Independent Special Districts on the Los Angeles County Local Agency Formation Commission (LAFCO).

I am currently on the Board of Directors for the Kinneloa Irrigation District (KID) where I have served since May 2022. I reside in an unincorporated area of Los Angeles County (the North Kinneloa Ranch community in the San Gabriel foothills) with my wife and two young children. My family moved to this area in 2019 after residing in Northern Virginia for nearly forty years. I also serve on the Finance & Audit Committee of the Mayfield Junior School in Pasadena, which my children attend. In addition to these local community endeavors, I work as a private consultant providing legislative, political, and communications strategy development to various clients in the energy field.

Prior to re-locating to Southern California, I was employed for over three decades in Washington, DC, in a variety of positions in the public and private sectors. These positions included US Congressional leadership staff, serving as Of Counsel at a prominent law firm to create and run a federal lobbying practice, serving as Senior Vice President and Deputy General Counsel of a "top ten" federal and state lobbying company, and finally moving in-house as Vice President and Legislative Counsel with a major energy provider to manage its federal affairs office. Collectively, these positions afforded me the opportunity to represent a broad array of corporate and trade association clients on multiple matters before Congress and the Executive Branch. I was honored to be annually recognized from 2005 through 2018 as a "Top Lobbyist" by *The Hill*, a leading newspaper in Washington covering such activities.

There are multiple reasons why I am interested to make an investment of time in LAFCO. First, the challenge of working to constantly the improve the establishment of spheres of influence for local units of governments or special districts so that the needs of their respective constituents or customers are efficiently met would be intrinsically rewarding. Second, the public policy issues inherent to LAFCO's mission and the matters pending before it would intersect broadly with many that I advocated on throughout my career in Washington. Water issues (supply, demand, conveyance), in particular, have always captured my attention and few other topics are as crucial to Southern California's future as this is. Finally, given that I am relatively new to the region, I am always looking to better understand and appreciate the rich tapestry of the greater Los Angeles community. Clearly, working on issues before LAFCO would provide that exposure.

To conclude, I believe that my legal education, professional experience in various public policy and political arenas, and desire to integrate more fully into our local community will allow me to make a positive and lasting contribution to the work of the Los Angeles County LAFCO. I ask for your consideration of my credentials and seek your support for my nomination to this position.

Attachment

NOMINATION
OF
INDEPENDENT SPECIAL DISTRICT **ALTERNATE MEMBER**
TO THE
LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

To: Independent Special District Selection Committee

From: Las Virgenes Municipal Water District

Date: August 1, 2023

Name of Candidate: Gary Burns

Las Virgenes Municipal Water District is pleased to nominate Gary Burns as a candidate for appointment as special district **alternate member** to the Los Angeles Local Agency Formation Commission. The nominee is an elected official or a member of the board of an independent special district appointed for a fixed term. For your consideration, we submit the following additional information together with a resume of the candidate's qualifications.

Elective office: Director, Division 3

Agency: Las Virgenes Municipal Water District

Type of Agency: Water District

Term Expires: December 4, 2026

Residence Address: 22118 Dardenne Street
Calabasas, CA 91302

Telephone: (818) 222-4200

PLEASE ATTACH RESUME OR CANDIDATE STATEMENT (limit one page)

Las Virgenes Municipal Water District
(Name of Agency)

By: David W. Pulliam

Its: General Manager

Local Agency Formation Commission (LAFCO):

Nomination of Candidates for Special District Alternate Member

Gary Burns, Candidate to fill LAFCO Alternate Member Position 8/2023

Gary Burns was elected to the LVMWD Board in December 2022. (Division 3, Secretary) He is the first direct Calabasas resident to serve on the District Water Board.

Gary desires to serve as the LAFCO Independent Special District Alternate Member to further serve the community and provide input to the Los Angeles Region.

Gary grew up in the New York New / Jersey area. He attended Fairleigh Dickenson (FDU) and Hofstra University where he received a BA and Master's in Psychology. He returned to FDU and received an MBA in Business and Finance.

He moved to the Calabasas area in 1989, and has been a resident of Calabasas since the inception of the City in 1991.

Gary has been President of Mulholland Heights Homeowners Association for the past 10 years. Additionally, he is a Board Member of Community Associations Institute, 2018 - 2024 (CAI of Greater Los Angeles County) and a Board Member of CAI International, National Homeowner Leaders Council 2021 – 2024. He was recognized by CAI Los Angeles for Excellence in Community Leadership in 2021 - 22

He is also a founding member of EPIC, (Emergency Preparedness in Calabasas) and volunteers for many local events. He is a partner in the Just Pure Foods Distribution company and a licensed Life and Health Insurance Broker.

Gary is searching for new sources of water to ensure there is sufficient future supplies for the community. He is available to advocate for his constituents whenever needed.

Attachment

NOMINATION
OF
INDEPENDENT SPECIAL DISTRICT ALTERNATE MEMBER
TO THE
LOS ANGELES COUNTY LOCAL AGENCY FORMATION COMMISSION

To: Independent Special District Selection Committee

From: Crescenta Valley Water District Board of Directors

Date: August 22, 2023

Name of Candidate: Sharon S. Raghavachary

Crescenta Valley Water District Board of Directors is pleased to nominate Sharon S. Raghavachary as a candidate for appointment as special district alternate member to the Los Angeles Local Agency Formation Commission. The nominee is an elected official or a member of the board of an independent special district appointed for a fixed term. For your consideration, we submit the following additional information together with a resume of the candidate's qualifications.

Elective office: Member of the Board of Directors

Agency: Crescenta Valley Water District

Type of Agency: Water and Wastewater

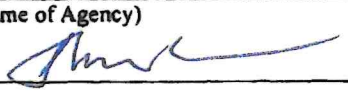
Term Expires: December 2024

Residence Address: 2209 Maurice Avenue
La Crescenta, CA 91214

Telephone: 818 248-3925

PLEASE ATTACH RESUME OR CANDIDATE STATEMENT (limit one page)

Crescenta Valley Water District
(Name of Agency)

By: 

Its: President of the Board of Directors

Sharon Raghavachary
President of the Board of Directors
Crescenta Valley Water District

Director Raghavachary has been active in the La Crescenta Community for over 20 years and has a background in accounting and computer systems.

Currently Ms. Raghavachary is the President of the Board of Directors for the Crescenta Valley Water District. She has served on the Board since 2019 and has been a past President as well as Vice President.

Ms. Raghavachary is a founder of the Crescenta Valley Community Association. She served for seven years on the Crescenta Valley Town Council, during which time she was co-chair of the Foothill Design Committee, that wrote design standards for Foothill Boulevard, and was a member of Supervisors Michael Antonovich's Library Committee. She also served as Council Vice President and Land Use Committee Chair.

Additionally, Director Raghavachary served three years on the Parent Advisory Council for Children's Hospital Los Angeles, providing input for the new hospital tower. She has been a volunteer for the Los Angeles County Sheriff's Department and Treasurer of the Crescenta Valley Arts Council, as well as a Girl Scout troop leader for ten years, and for over five years she wrote a featured column for the Glendale News Press and the Crescenta Valley Weekly. She also served on the Clark Magnet High School's School Site Council for four years.

Ms. Raghavachary has teenage twins, one currently studying at USC and the other who looks forward to studying abroad.

CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
September 12, 2023

To: Honorable President and Members of the Board of Directors

From: James Lee, Interim General Manager

Subject: **Job Descriptions and Updates to the District's Organizational Chart**

ACTION ITEM:

Consideration and motion to authorize updates to the District's organizational chart with associated job descriptions and salary schedules.

BACKGROUND:

The District's Strategic Plan goals include 'Reliable Water & Wastewater Service' and 'Exceptional Customer & Community Service', which are in turn supported by another goal, 'Employer & Workforce Excellence'. Objectives within the latter goal include: 'Assess Department Processes', 'Implement Succession Planning in Critical Areas', and 'Update Job Descriptions Consistent with Mission and Vision Efficacy'. As part of the District's strategic plan, staff has taken measures to increase resiliency and reliability. Measures taken include a district wide approach to cross-training, advancement, and succession planning.

During the past several months, there have been a number of staff departures and changes in management practices such as the decision to handle construction management and inspection in-house. While these are challenges, they also represent opportunities, and staff has expanded the roles of several positions to accommodate these changes.

These proposed changes to the organizational chart will increase the District's compensation budget. However, the changes support critical Strategic Plan goals. Moreover, the updated business processes and efficiencies are expected to yield several multiples of direct dollar savings as well as intangible benefits such as resiliency, succession planning, workload balance, and cross-department operations.

At the August 30, 2023, Employee Relations Committee, staff reviewed the following job descriptions and their rationale.

1. *Customer Service and Inspection Field Representative* – This is a career progression for the Customer Service and Field Representative position based on adding an inspection element to the position. The additional duties fit with the new position because there is an expectation for field experience in the current position, and also because the current position's duties can be allocated modularly throughout the workweek to accommodate the additional inspection duties. This is a non-exempt (hourly) position. The job description is enclosed, and the proposed range is $70,818 to $95,186.

2. *Regulatory and Public Affairs Specialist* – This is a new job description designed for succession planning for the Regulatory and Public Affairs Manager and to accommodate for new and further anticipated regulations, and the job duties are similar with a number of duties and reporting relationships residing with other departments, primarily Engineering, for resiliency. This is a non-exempt (hourly) position. The job description is enclosed, and the proposed range is $75,600 to $95,700.

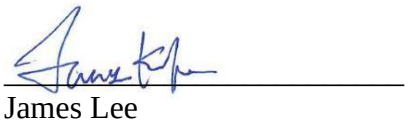
3. *Senior Management Analyst* – This is a career progression for the Analyst position, with an elevated level of responsibilities, analysis, and decision-making. This is a formalization of the succession plan for the Finance & Administration Manager planned several years ago when the Analyst was hired. This is an exempt position. The job description is enclosed, and the proposed range is $77,004 to $111,996.

If the Board approves the above job descriptions, the next step is for staff to meet and confer with the bargaining unit (AFSCME 1902) to finalize them. These job descriptions represent the first group of proposed organizational updates including one or two additional full-time or limited-term positions, other job descriptions, and compensation reviews as discussed with the Committee.

RECOMMENDATION

Staff recommends that the Board approve the proposed organizational plan updates and associated salary schedules.

Prepared and Submitted by:



James Lee
Interim General Manager

Attachment(s):

1. Customer Service and Inspection Field Representative job description
2. Regulatory and Public Affairs Specialist job description
3. Senior Management Analyst job description
4. Organizational chart

g:\management\board meeting staff reports\2023\09-12 board memo - org chart and job description update

Attachment 1

CRESCENTA VALLEY WATER DISTRICT

CUSTOMER SERVICE & INSPECTION FIELD REPRESENTATIVE
JOB DESCRIPTION

DRAFT

SUMMARY DESCRIPTION

The Customer Service & Inspection Field Representative reports to the Customer Service and Engineering Departments. This is a senior level position within the District's Customer Service Field Representative series. When sufficient experience, applicable certifications have been obtained, and an ability to work independently has been demonstrated, and incumbent may be eligible for promotion to this position.

This position serves as the liaison between customers and the Customer Service Department. Based on the modular workflow in Customer Service and associated field knowledge, the Customer Service & Inspection Field Representative also maintains the District's Backflow Prevention Program and servers as the primary support for the Senior Inspection and Design Specialist. This position will have the ability to work independently, show sound judgment, and uphold CVWD's values statement, promoting communication and collaboration across departments. The position may perform other field/office duties as assigned.

REPRESENTATIVE DUTIES

The following duties are typical for this classification. Incumbents may not perform all duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices. The Customer Service & Inspection Field Representative will:

- Communicate with District customers in a professional manner to discuss and resolve problems and concerns regarding water and wastewater service;
- Work with the Customer Service Department on processing Work Orders including requests for turning on or off water service, checking for water leaks, water usage disputes, meter testing requests, water quality complaints, and other Work Order requests as assigned;
- Retrofit and/or replace meters as part of the meter replacement program, clean in and around meter boxes, perform routine maintenance on meters and associated devices, repair meter leaks and other related repairs, and replace meter boxes and lids;
- Install, test and calibrate new or replacement water meters and ensure they are registering properly when AMI system is up and functioning;
- Perform leak detection investigations and pressure and flow tests as requested on water services;
- Perform consumption investigations including computer downloads of data from the meter as requested on water services;
- Perform water quality investigations including sampling and analysis per CVWD's form; coordinate results;
- Perform physical and/or virtual fire hydrant flow tests as requested and assisted by the Engineering Department, accurately complete and maintain corresponding forms, provide information to customer and maintain fire hydrant flow testing database;
- Perform testing of water meters in the field and at CVWD's water meter testing bench to ensure water meters are meeting the manufacturer's range of meter accuracy. Provide information to the Customer Service Department and CVWD's customers on results;

- Meet and discuss situations in the field relative to a customer's concern with the appropriate Management and System Operations staff;
- Maintain the District's Backflow Prevention Program including backflow prevention device inspection and testing, conducting property surveys, corresponding orally and/or in writing with customers regarding backflow prevention requirements, and maintaining a computerized database history of all backflow devices in the District;
- Perform difficult or complex construction inspection assignments;
- Perform quality assurance inspection on consultant-inspected construction projects;
- Properly document important construction notes and photos on daily reports and accurately communicate with contractors both orally and in writing;
- Establish and maintain cooperative working relationships with co-workers, outside agencies, and the public;
- Regular attendance and adherence to prescribed work schedule to perform job responsibilities and operate a District vehicle on a daily basis in a safe and effective manner;
- Represent the District in a professional, positive manner when interacting with the public; and
- Duties and responsibilities carried out with considerable independence within the framework of CVWD's policies.

OTHER DUTIES

- Perform the duties and functions of the Meter Reader if necessary, due to absence or time constraints;
- Respond to Underground Service Alerts (USA) to locate CVWD's water and wastewater mains and service laterals as needed;
- Assist field crews in emergency situations when requested by Management;
- Assist with Stand-By duties, when requested by Management;
- Perform general maintenance at the District office and other duties as assigned;
- Assist in developing reports on problems related to completion of construction projects within time and cost requirements;
- Assist with answering customer service phone calls, assisting customers at the front counter, processing payments, processing customer turn-ons and turn-offs, and inputting data into the customer information system;
- Assist with ad-hoc analytical and other reports across departments;
- Prepares a variety of correspondence related to inspection functions; and
- Performs related duties as assigned.

QUALIFICATIONS

The successful candidate will reflect the District's core values as shown in the Strategic Plan. In addition, the following generally describes the knowledge and ability required to enter the job and/or be learned within a reasonable period of time in order to successfully contribute to the District's mission and vision.

Knowledge of:

- The District's water distribution systems and wastewater collection systems;
- General knowledge of water meters, pipelines, water services, valves, fire hydrants, sewer mains, sewer laterals and sewer manholes;
- Principles and methods used in reading, testing, and calibrating water meters;

- Water quality fundamentals and disinfection processes;
- Geography of the District and the location of District facilities;
- Use computer systems and software packages such as Microsoft Office, Excel, Word and Outlook;
- Standard construction specifications, codes, and special standards; methods, materials and equipment used in pipeline construction, structural concrete, finishes and earthwork; and special hazards associated with construction;
- Mathematics as applied to engineering, topography, construction, and design of structures, hydrology, drainage, and irrigation systems; and
- Codes, ordinances, regulations, and specifications pertaining to the work.

Ability to:

- Maintain considerate and professional relationships when working with the public regarding the District's services and handling of complaints;
- Work independently and cooperatively while conducting a variety of activities;
- Keep organized records;
- Perform light manual labor;
- Make arithmetic calculations quickly and accurately;
- Inspect construction projects and Identify design problems, such as location, elevation and drainage, pipe alignment conflicts, right of way availability and others; develops and presents proposed resolutions;
- Read, interpret, and develop construction plans, specifications, and shop drawings;
- Check plans and drawings for conformance with District specifications and standards;
- Develop and maintain detailed records and information;
- Effectively represent the District in contacts with the public, other government agencies, contractors, developers, and professional engineering consultants;
- Establish and maintain effective working relationships with contractors, consultant, District and other agency personnel, keep complete and concise records;
- Use computer systems and software packages related to construction analysis, permit application, project management and specifications; and
- Work independently with minimum supervision.

Experience, Education, Licenses: *Any combination equivalent to experience and education that could likely provide the required knowledge and abilities would be considered qualifying. A typical way to obtain the knowledge and abilities would be:*

- Experience: At least seven (7) years of increasingly responsible experience in water or wastewater construction, maintenance, inspection, field representation for a municipal government or water agency.
- Driver License: Possession of a valid California Class C Driver License may be required at the time of appointment. Failure to obtain or maintain such required license(s) may be cause for disciplinary action. Individuals who do not meet this requirement due to a physical disability will be considered for accommodation on a case-by-case basis. Possession and proof of a driving record free of multiple or serious traffic violations or accidents for two (2) consecutive years
- State Resources Control Board, Division of Drinking Water - Water Treatment and Water Distribution Operators Certificates: Possession of Water Distribution Certificate - D2 or higher.

- CalOSHA 30-hour Construction Safety Certification: Needs to be completed and obtained either at date of hire or within an acceptable period of time, not to exceed one (1) year from hire or appointment to the position.
- APWA Certification: Possession of an APWA Certified Public Infrastructure Inspector (CPII) certification, or ability to obtain within an acceptable period of time, not to exceed one (1) year from hire or appointment to the position.

Physical Demands and Working Environment:

The conditions herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.

- Environment:
    - Exposure to the sun: 50% to 100% work time spent outside a building and exposed to the sun;
    - Work above floor level: Some work done on ladders or other surfaces from 4 to 12 feet above the ground;
    - High temp: Considerable work time in hard manual labor in temperatures between 80-100 degrees;
    - Humidity: Work in areas with unusually high humidity;
    - Wetness: More than 10% of the work time getting part or all of the body and/or clothing wet;
    - Noise: Occasionally there are unusually loud sounds;
    - Slippery surfaces: Occasional work on unusually slippery surfaces;
    - Oil: Some parts of the body come in contact with oil or grease occasionally;
    - Dust: Works in or around areas with minor amounts of dust; and
    - Irregular or extended work hours; ability to change working hours and to work overtime.
- Physical:
    - Operates District vehicles and equipment for water system construction and wastewater collection systems, maintenance, and repair work;
    - Must be able to carry, push, pull, reach, and lift equipment and parts weighing up to 50 pounds;
    - Stoops, kneels, crouches, crawls, and climbs during field maintenance and repair work;
    - Works in an environment with exposure to dust, dirt, and significant temperature changes between cold and heat;
    - Communicates orally with District staff in face-to-face, one-to-one settings;
    - Regularly uses a telephone for communication;
    - Regularly uses handheld and other reading and metering devices;
    - Uses office equipment such as computer terminals, copiers, and FAX machines; and
    - Stands and walks for extended time periods.
- Vision: See in the normal visual range with or without correction; vision sufficient to read computer screens and printed documents and to operate assigned equipment.
- Hearing: Hear in the normal audio range with or without correction.

Attachment 2

CRESCENTA VALLEY WATER DISTRICT

REGULATORY AND PUBLIC AFFAIRS SPECIALIST
JOB DESCRIPTION

DRAFT

SUMMARY DESCRIPTION

Under general supervision of the Regulatory and Public Affairs Manager and Engineering Manager / Senior Engineer, the Regulatory and Public Affairs Specialist position is multi-disciplinary and creates synergies through a range of responsibilities comprised primarily of water quality management, regulatory compliance, water conservation, and general program management. The selected candidate will be deliberate about teamwork and professionalism, being flexible and a good listener, and being able to express ideas and exercise good judgement in analyzing situations and making decisions. They will have the strong technical and interpersonal skills and experience necessary to uphold CVWD's values statement, promote communication and collaboration across departments, and develop staff.

The Regulatory and Public Affairs Specialist shall also effectively represent the District in various settings as needed.

REPRESENTATIVE DUTIES

The following duties are typical for this classification. Incumbents may not perform all duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.

- Support the vision, long-term, and daily activities of the Regulatory & Public Affairs Manager;
- Support and work with the District's other departments;
- Assist with coordinating various departments to ensure water quality compliance, including but not limited to, scheduling sample collection, updating/complying with permit provisions and blending plans, performing statistical review and analysis of field data and laboratory results, and resolving water quality problems and emergencies;
- Assist with tracking regulatory and legislative and other regulatory proposals which could impact the District's operations;
- Assist with the District's water conservation efforts, including development and deployment of conservation programs, water-use audits, and field inspections;
- Provide customer service and guidance as it relates to water quality, public outreach, conservation, and regulatory compliance;
- Develop and maintain active relationships with regional, state, and federal regulatory agencies; and
- Carry duties out with considerable independence within the framework of CVWD's policies and values statement.

OTHER DUTIES AND FUNCTIONS

- Accurately assemble and interpret water quality, conservation and other data and regulations;
- Maintain and track all active permits, licenses, certificates, and other regulatory requirements;
- Assist in developing and deploying public outreach materials such as email alerts, notifications, shutdown forms, press releases, media, social media etc., including in coordination with any vendors;

- Assist with the development and implementation of internal and external database systems and other processes for water quality, public outreach, conservation, and general program management such as grant applications and development services;
- With the assistance of management, develop databases and processes that ensure efficacy, efficiency, and operational resiliency and implement across various departments;
- Coordinate events such as internal trainings, community events, educational events, etc.;
- Perform complex ad-hoc analyses and other assignments as directed by management; and
- Other related duties as assigned.

QUALIFICATIONS

The successful candidate will reflect the District's core values as shown in the Strategic Plan. In addition, the following generally describes the knowledge and ability required to enter the job and/or be learned within a reasonable period of time in order to successfully contribute to the District's mission and vision.

Knowledge of:

- Water quality standards, including lab qualifications and sampling methods;
- Principles and practices of water conservation;
- Principles and practices of public outreach, engagement, and customer service;
- Principles and practices of risk management;
- Fundamental concepts of regulatory compliance;
- Database development and management;

Ability to:

- Be an effective team member and communicator who contributes constructively and cooperatively to solve project or team issues while working collaboratively on multi-disciplinary teams;
- Practice a high level of attention to detail in technical writing and project management skills, including technical document review, QA/QC experience, and compliance report writing;
- Monitor Environmental Agency Regulatory Compliance Rules & Regulations, including but not limited to, Certified Unified Program Agency (CUPA), Environmental Protection Agencies (EPA), State Water Resources Control Board (SWRCB), California Environmental Reporting System (CERS), etc.
- Maintain a library of environmental policies, procedures, case law, administrative practices, and local, state, and federal environmental laws, rules, and regulations
- Assist in building complex processes and implement effectively across various departments and functions;
- Develop and maintain good working relationships with other agencies and stakeholders;
- Understand and interpret water quality and production data and arrange remediation or advocate results and/or approaches with regulatory agencies as appropriate;
- Adjust workload changes to meet deadlines using best practices for organization, planning, and time management;
- Assist in negotiating effectively with agencies, consultants, contractors, the public, and other stakeholders on behalf of CVWD;
- Effect sound project management that holds vendors to agreed-upon contracts;
- Demonstrate flexibility in considering approaches to various issues;

- Handle complex or technical customer inquiries, including communication with the public regarding constructions projects, water quality issues, wastewater issues, and District events;
- Effectively lead and collaborate in a team environment and amongst multiple stakeholders;
- Make effective presentations;
- Use or learn a variety of software from basic applications to CRMs, water quality databases, and publishing tools, preferably with an aesthetic sense;
- Comply with, promote, and enforce CVWD's values statement.

Experience, Education, Licenses: *Any combination equivalent to experience and education that could likely provide the required knowledge and abilities would be considered qualifying. A typical way to obtain the knowledge and abilities would be:*

- Education: Bachelor's degree in public policy, data science, chemistry, environmental/earth science, management science, communications, public administration, or related field. Desirable – Master's Degree in a closely related field.
- Experience: A minimum of three (3) years of experience in public administration, communications, environmental studies, data science, and/or policy research and/or development. Experience related to the water and/or wastewater industry is a plus.
- Driver License: Possession of a valid California Class C Driver License may be required at the time of appointment. Failure to obtain or maintain such required license(s) may be cause for disciplinary action. Individuals who do not meet this requirement due to a physical disability will be considered for accommodation on a case-by-case basis. Possession and proof of a driving record free of multiple or serious traffic violations or accidents for two (2) consecutive years.
- State Resources Control Board, Division of Drinking Water - Water Treatment and Water Distribution Operators Certificates: Possession of Water Distribution Certificate - D2 or higher and/or possession of a Water Treatment Certification - T2 or higher preferred.

Physical Demands and Working Environment:

The conditions herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.

- Environment: Standard office setting; exposure to computer screens; extensive interaction with District staff and the general public. 10% to 20% work time spent outside and exposed to the sun.
- Physical: Incumbents require sufficient mobility to work in an office setting; stand or sit for prolonged periods of time; operate office equipment including use of computer keyboard; pull, lift and/or carry light to moderate amounts of weight; bend, stoop, kneel, and crawl; ability to verbally communicate to exchange information.
- Vision: See in the normal visual range with or without correction; vision sufficient to read computer screens and printed documents and to operate assigned equipment.
- Hearing: Hear in the normal audio range with or without correction.

The District is an Equal Opportunity Employer.

CRESCENTA VALLEY WATER DISTRICT
SENIOR MANAGEMENT ANALYST
JOB DESCRIPTION

DRAFT

SUMMARY DESCRIPTION

Under direction of the Finance and Administration Manager, the Senior Management Analyst performs a wide variety of administrative, analytical, and other functions in support of Crescenta Valley Water District's mission and vision. This position will require performance of a wide range of duties with a significant degree of independence and sound judgment. Examples of duties include: financial and statistical analyses and reporting, project management, creating and maintaining standard operating procedures, customer service, public outreach, legislative analysis, preparation of journal entries, monthly reconciliations, payroll, development of budgets and monitoring of expenses, data analysis and database management, administration of benefits, and program management for training, wellness programs, and other programs as they relate to human resources offerings. The selected candidate will be deliberate about teamwork and professionalism, being flexible and a good listener, and being able to express ideas and exercise good judgement in analyzing situations and making decisions. They will have the strong technical and interpersonal skills and experience necessary to uphold CVWD's values statement, promote communication and collaboration across departments, and develop staff. The Senior Management Analyst is expected to communicate clearly both written and verbally, make recommendations, and produce effective and engaging presentations.

REPRESENTATIVE DUTIES

The following duties are typical for this classification. Incumbents may not perform all duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.

- Support the vision, long-term, and daily activities of the Finance & Administration Manager;
- Responsibly and accurately completes general accounting duties in areas such as payroll, miscellaneous accounts receivable, fixed assets, bank reconciliations, journal entries and maintenance of general ledger accounts; and financial reporting in accordance with current Governmental Accounting Standards Board (GASB) guidelines; accuracy of all tax, payroll and benefits and OPEB reporting calculations and submittal of payments in compliance with established deadlines; and adherence to established internal controls practices and procedures;
- Reconciles utility billing cash receipts to bank deposits and reports any discrepancies including NSF's and bank errors in a timely manner.
- Creates standard operating procedures for finance-related activities including but not limited to payroll, cash management, reconciliation, accounts payable and purchase orders.
- Creates financial models and provides financial information and accounting support to others in connection with purchasing, rates and charges, tax law changes and compliance, payroll and benefits changes and compliance, and other financial information and analysis for District issues as required;
- Receives, processes, and responds to customer service requests in person, by phone, and virtually, resolving a variety of issues related to accurate meter readings, high consumption, delinquent accounts, turn-ons/offs, improper billings etc.;
- Receives and processes customer billing payments;
- Responsible for the timely and accurate fulfillment of regulatory reporting requirements with the Finance and Administration Department;

- Makes recommendations with development and implementation of information and other materials for public outreach through print, social media, in-person presentations, and other outreach platforms;
- Takes significant responsibility for the annual budgeting process, including budget forecasting, coordinating budget workshops, creating budget presentations and improving processes as needed;
- Coordinates the completion of yearly audit requests and reporting;
- Assists with rate studies and associated projects;
- Analyzes and provides required data related to bond issuances;
- Makes recommendations and manages implementation of financial and customer information software systems to improve business processes
- Prepares and submits a variety of semi-monthly, monthly, quarterly, semi-annual, and annual reports to reporting and regulatory agencies;
- Provides analysis and administrative support under the direction of the Finance & Administration Manager and Director of Finance & Administration – e.g., linear optimization modeling, water/wastewater rate study analyses, debt issuance analysis, development and deployment of training programs for compliance, certification, and professional development etc.; and
- Responsible for employment recruitment campaigns including job flyers, prescreening, interviews and onboarding.
- Performs related duties as required.

QUALIFICATIONS

The successful candidate will reflect the District's core values as shown in the Strategic Plan. In addition, the following generally describes the knowledge and ability required to enter the job and/or be learned within a reasonable period of time in order to successfully contribute to the District's mission and vision.

Ability to:

- Be an effective team member and communicator who contributes constructively and cooperatively to solve project or team issues while working collaboratively on multi-disciplinary teams;
- Analyze problems, identify alternative solutions, anticipate consequences of proposed actions, and implement recommendations in support of goals;
- Develop business cases using various methods such as net present value, payback period, breakeven analysis, etc.;
- Prepare and administer large and complex budgets at the departmental level;
- Work cooperatively with other departments and the Board, including attendance at Board and other meetings;
- Exercise good judgment and maintain confidentiality in maintaining critical, sensitive, and confidential information, records, and reports;
- Communicate clearly and concisely, both orally and in writing; and
- Prepare clear and concise financial reports.

Knowledge of:

- Applicable management science principles.

Experience and Education: *Any combination equivalent to experience and education that could likely provide the required knowledge and abilities would be considered qualifying. A typical way to obtain the knowledge and abilities would be:*

- Education: Bachelor's degree in accounting, finance, economics, public administration or related field. Desirable – Master's Degree in a closely related field.
- Experience: A minimum of three (3) years of experience in public administration, finance, accounting, data science or related field.
- Driver License: Possession of a valid California Class C Driver License may be required at the time of appointment. Failure to obtain or maintain such required license(s) may be cause for disciplinary action. Individuals who do not meet this requirement due to a physical disability will be considered for accommodation on a case-by-case basis. Possession and proof of a driving record free of multiple or serious traffic violations or accidents for two (2) consecutive years.

Physical Demands and Working Environment:

The conditions herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.

- Environment: Standard office setting; exposure to computer screens; extensive interaction with District staff and the general public.
- Physical: Incumbents require sufficient mobility to work in an office setting; stand or sit for prolonged periods of time; operate office equipment including use of computer keyboard; pull, push, lift and/or carry light to moderate amounts of weight; bend, stoop, kneel, and crawl; ability to verbally communicate to exchange information.
- Vision: See in the normal visual range with or without correction; vision sufficient to read computer screens and printed documents and to operate assigned equipment.
- Hearing: Hear in the normal audio range with or without correction.

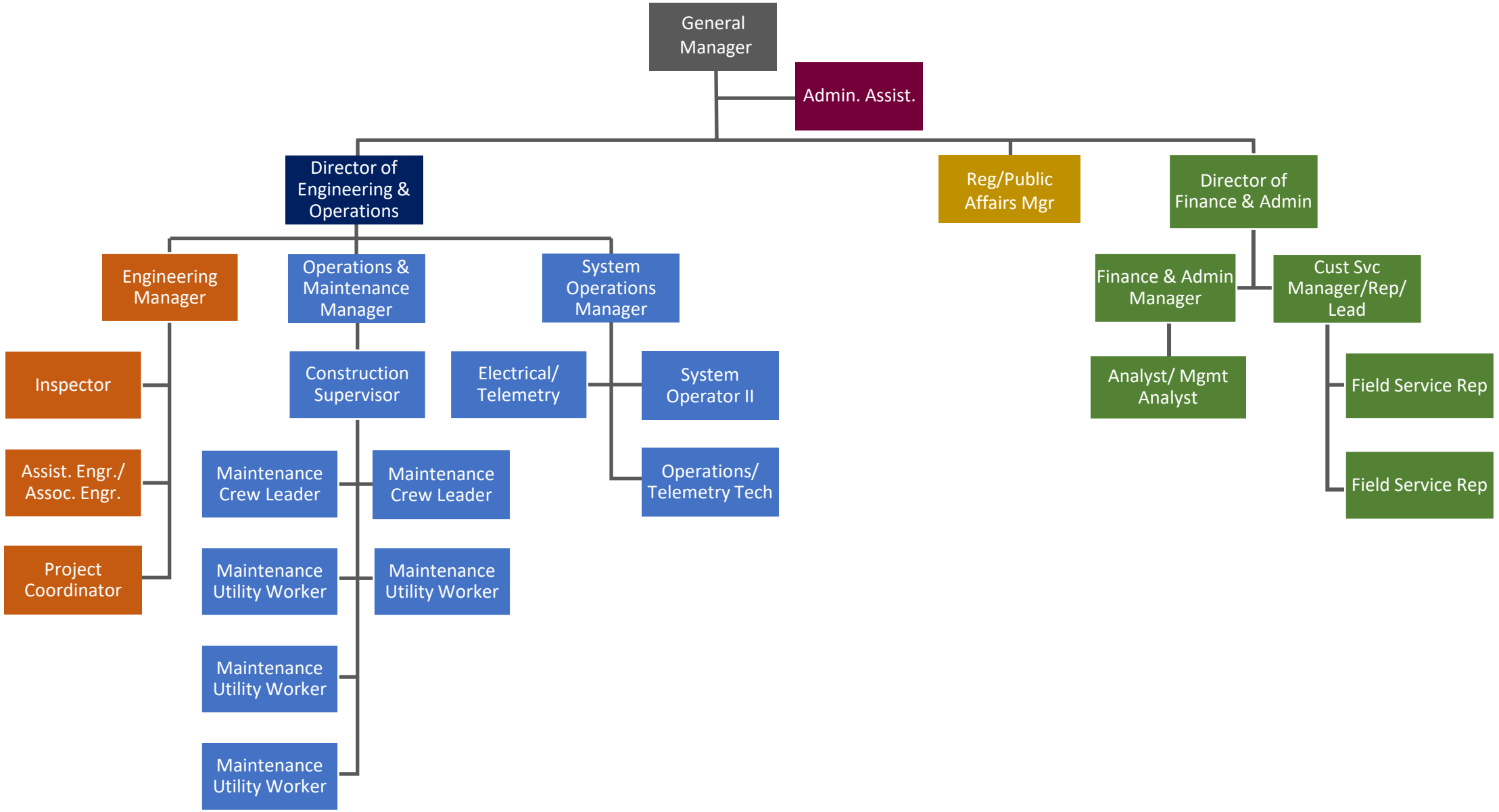
Classification:

Exempt

The District is an Equal Opportunity Employer.

CVWD ORGANIZATIONAL CHART

Attachment 4



CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 4

To: Honorable President and Members of the Board of Directors — September 12, 2023

From: Brook Yared, M.S., P.E. – Director of Engineering and Operations

Subject: **Acceptance of Water Facilities for Tract No. 1701, Lot 362, located at 2341 Mira Mesa Ave and Adoption of Resolution No. 787**

ACTION ITEM:

Resolution 787, Acceptance of Water Facilities at 2341 Mira Mesa Ave, Project D-21-23 – Consideration and motion to adopt Resolution No. 787 and to authorize the General Manager to accept the water facilities at 2341 Mira Mesa Avenue.

BACKGROUND:

In 2021, Staff was approached by Mr. Roubik Mardirosian (Developer) for the construction of two apartment buildings, Building 1 having two (2) units and Building 2 having four (4) units located at 2341 Mira Vista Ave.

California State Law and CVWD's Rules and Regulations state that each new residential unit requires a separate water meter. Hence, a new multi-meter manifold consisting of six (6) new water meters was required for the development at 2341 Mira Vista Avenue. The proposed development also required a new fire service to be installed. The costs for design and installation of the new facilities and abandonments have been paid for, in full, by the Developer.

DISCUSSION:

The Developer entered a contract with CVWD for the design, construction, and dedication of the new multi-meter manifold and fire service to the District. Each developer agreement stipulates that the developer shall transfer ownership of all newly constructed facilities to CVWD after satisfactory completion of construction. CVWD then assumes responsibility for maintaining these facilities into the future. The Contractor also was required to submit a "Bill of Sale" to CVWD establishing a base value for the donated facilities for depreciation purposes.

Staff worked with the Developer on the design of the multi-meter manifold, and the Developer separately hired a private contractor, that was approved by CVWD, to perform the work. CVWD provided all materials such as steel pipe, fittings, service laterals and meters, as well as inspection services for the project. The construction for the project was completed in April 2022, and the water facilities constructed for the project were completed to the satisfaction of the District. After Accepting Improvements, staff will work with the Contractor to release their bonds after the one-year workmanship warranty expires in April 2023.

RECOMMENDATION:

In accordance with CVWD's Rules and Regulations, and the developer's agreement, it is the Developer's responsibility to dedicate the new water facilities to CVWD. The developer has completed the project, and it is staff's recommendation to adopt Resolutions No. 787 to authorize the General Manager to accept the water facilities within the public right-of-way for Lot 362 of Tract 1701 located at 2341 Mira Vista Ave.

ENVIRONMENTAL REVIEW:

N/A

FUNDING AVAILABILITY:

No Cost to the District as all costs were paid by the Developer.

Prepared by:

Elias Sebhatu, P.E.
Senior Engineer

Submitted by:

Brook Yared, M.S., P.E.
Director of Engineering and Operations

Attachments:
1. Project Location Map
2. Resolution 786
3. Bill of Sale – 2341 Mira Vista Ave

G:\Management\Board Meeting Staff Reports\2023\09-12-23 Board Memo - D-21-23 Acceptance of Water Facilities.doc

PROJECT LOCATION MAP: 2341 MIRA VISTA AVE (D-21-23)

INSTALLATION OF MULTI-METER MANIFOLD 3/4-INCH (6 METERS) AND 4-INCH FIRE SERVICE

LEGEND

PROJECT LOCATION

WATER MAIN

CRESCENTA VALLEY WATER DISTRICT CVWD

N

0 50 100 200 300 400 Feet

Attachment

RESOLUTION NO. 787

RESOLUTION OF THE BOARD OF DIRECTORS

OF THE CRESCENTA VALLEY WATER DISTRICT

ACCEPTING THE DONATION OF FACILITIES

WHEREAS, Crescenta Valley Water District (the "District") entered into an Agreement with Roubik Madirossian, ("Developer"), which provided for the construction by the Developer of certain water improvements ("Facilities") for connection to the District's system as part of the development for 2341 Mira Vista Ave., ("Development") within the District's service area;

WHEREAS, the District, in order to accommodate the Developer's construction of six (6) new apartment units required the construction of said water facilities;

WHEREAS, the water facilities have been completed in substantial conformance with the plans and specifications and Crescenta Valley Water District standards.

WHEREAS, the developer is required to donate them to the District;

WHEREAS, Developer has provided District with a deed, bill of sale, or other instrument of conveyance, conveying the Facilities from Developer to the District, as required by the agreement;

NOW, THEREFORE, BE IT RESOLVED that, the Board of Directors of Crescenta Valley Water District hereby accepts the donation of the Facilities for operation, maintenance, and repair by the District, subject to all rights of the District.

PASSED, APPROVED, AND ADOPTED at a Regular Meeting of the Board of Directors of Crescenta Valley Water District held on September 12, 2023, Resolution No. 787 was adopted by the following vote:

AYES:	**Director**
	Director
	Director
	Director
	Director
NOES:	**Directors**

ATTEST:

President, Board of Directors
Crescenta Valley Water District

Secretary of the Board of Directors
Crescenta Valley Water District

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

I, JAMES LEE, Secretary of the Crescenta Valley Water District, DO HEREBY CERTIFY that the foregoing is a full, true and correct copy of Resolution No. 787 of the Board of Directors of Crescenta Valley Water District adopted at a Regular Meeting held on September 12, 2023, and that the same has not been amended or repealed.

Secretary of the Board of Directors of
Crescenta Valley Water District

DATED: September 12, 2023 **(S E A L)**

Attachment

CRESCENTA VALLEY WATER DISTRICT

BILL OF SALE

WATER SYSTEM FACILITIES

For good and valuable consideration, receipt of which is hereby acknowledged, the undersigned does hereby transfer and convey to Crescenta Valley Water District, a political sub-division of the State of California, and its successors and assigns, all right, title, and interest in and to the water main and structures constructed for 2341 Mira Vista Ave. Said water main installation and construction located within Mira Vista Avenue for the property described below, and further warrants that the same is free and clear of any encumbrances.

Said property is described as Lot 362 of Tract 1701 (2341 Mira Vista Ave)

Executed this 30 day of AUGUST, 2023

Owner

Roubik Madirossian

CERTIFICATE OF ACCEPTANCE

As per Resolution No. 787 as set forth in the Minutes of a Meeting of the Board of Directors of the Crescenta Valley Water District held on _____ the above Bill of Sale of Water System Facilities, dated _____, is hereby accepted by order of the Board of Directors of the Crescenta Valley Water District, a political sub-division of the State of California.

Date of Acceptance _____.

CRESCENTA VALLEY WATER DISTRICT

COST OF CONSTRUCTION STATEMENT

WATER SYSTEM FACILITIES

Developer's Name Roubik Madirossian Address: 2341 Mira Vista Ave

Tract No. 1701 (Lot 362) Date Prepared 5/19/2023

Item	Quantity	Units		Unit Cost	Total Cost
Excavation and Backfill. (Pipeline and Appurtenances)		LF		$	$
Trench Resurfacing	1	SF		$ 56,750	$ 56,750
Install Multimeter Manifold		LS		$	$
Install Fire Service	1	LS		$ 22,050	$ 22,050
Pressure/Bacteriological Testing		LS		$	$
Grand Total Installation Cost*					$ 78,800

*Excludes fees paid directly to Crescenta Valley Water District.

Prepared by Roubik Madirossian

My signature as witnessed here below atests that the above statement is true and correct to the best of my knowledge.

Date: 8/30/2023

Authorized Representative

PROJECT MANAGER

Official Title

Crescenta Valley Water District

2700 Foothill Boulevard, La Crescenta, California 91214
Phone (818) 248-3925 Fax (818) 248-1659

October 21, 2021

Roubik Madirossian
PO Box 30
Glendale, CA 91209

RE: Project D-21-23

COST ESTIMATE

MULTI METER MANIFOLD 3/4-INCH (6 METERS)
& NEW 4-INCH FIRE SERVICE
AT 2341 MIRA VISTA AVENUE

MATERIALS	$14,140.00
INSPECTION SERVICES	$7,910.00
TOTAL AMOUNT DUE	$22,050.00

The total shown is an estimate of material for the installation of a new multi meter manifold and a four-inch fire service. The owner will be either invoiced or reimbursed for the actual total cost of work completed by the District at the completion of the project. The water meter installation fees are valid until June 30, 2022, at which time a recalculation will occur for the succeeding year.

J.A. SALAZAR CONSTRUCTION & SUPPLY CORP

GENERAL ENGINEERING CONTRACTOR
License No. 743587 A, C34
613 N. Harbor Blvd
La Habra CA 90631
Tel (562) 691-3647 ~ Fax (562) 691-1092

PROPOSAL

October 28, 2021

Mira Vista, Investment, LLC.
P.O. Box 30
Glendale CA 91209
Roubik Mardirosian
(818) 482-4312

Reference: 2341 Mira Vista, Montrose – 6 Meter Manifold and 4" Fire Service Lead Only

We propose to install the following and provide all labor, material, and equipment, as described by the documentation provided:

- Hot tap existing 6" CLM&C main, install tapping sleeve and 4" gate valve for (6) meter manifold arrangement per Detail "B"(per attached plan). Meters not included.
- Trench and install 4" fire service lead only, no backflow/DCDA/post indicator/meters included, stub 2' onto property and cap for fire contractor to pick up.
- Native or CMB Backfill.
- Restoration of disturbed area, trench width only using conventional asphalt.
- Traffic control per MUTCD, No engineered traffic plans.
- No concrete replacement
- Payment due upon completion of work. No retention will be held.

Total All Services: **$56,750.00**
Bonds: **$1,419.00**

Exclusions: Permits, engineering, survey, traffic control plans, soils testing, handling of any hazardous materials, meters, backflows, post indicator valves, DCDAs, fire testing or certification, building connections, rubberized asphalt, slurry seal, paving outside of trench width, concrete outside of trench width, concrete pads, grading, imported fill, concrete under asphalt removal and replacement, vitrified base removal or replacement, decorative, stamped or colored concrete, striping outside of disturbed area, night work, weekend work, holiday work or reduced hours.

Please contact me if you have any questions, thank you.

Sincerely,

Jose Salazar
President

11/10/21

FMWD Announces "Water is Life" Student Art Contest Winners

By CV Weekly on August 24, 2023 · 0 Comments

1st Place – Crescenta High School Chinapa Sukitja Images provided by FMWD

Foothill Municipal Water District (FMWD) announced the winners of the 2023 FMWD "Water is Life" Student Art Contest. The annual art contest is open to students in Altadena, La Crescenta and La Cañada Flintridge in grades from kindergarten to high school. The art contest's theme was stewardship and conservation of water. This means protecting water resources for future generations through conservation and education.

1st Place – Mountain Avenue Elementary – Blake Ngai

In the kindergarten through fifth grade category, the winners were

- 1st Place – Mountain Ave. Elementary – Blake Ngai
- 2nd Place – La Cañada Elementary – Olivia Yee
- Honorable Mention – Paradise Canyon – Violet Perrigue
- Honorable Mention – Palm Crest Elementary – Caris Wee
- Honorable Mention – Paradise Canyon Elementary – Ahin Choi

In the sixth through eighth grade category, the winner was Rosemont Middle School student Isaac Lee.

1st Place – Rosemont Middle School – Isaac Lee

In the ninth through 12th grade category, the winners were

- 1st Place – Crescenta High School – Chinapa Sukitja
- 2nd Place – Crescenta Valley High School – Joshua Kim
- Honorable Mention – Crescenta Valley High School- Sophie Ludes
- Honorable Mention – La Cañada High School – Kayla Perez

For information on rebates, please visit SocalWaterSmart.com or call Michael Le at (818) 790-4036, mle@fmwd.com.

FMWD Announces "Water is Life" Student Art Contest Winners added by **CV Weekly** *on August 24, 2023*

View all posts by CV Weekly →

Letter to the Community

By CV Weekly on August 24, 2023 · 0 Comments

Dear Community,

I hope this letter finds you well amid a number of natural disasters here and farther away. Fortunately, the events in our immediate locale were milder.

Such events are good reminders of why we always need to be prepared to respond to a range of events, particularly along the foothills where it's a matter of when, not if. The District continues to tighten and add to our Emergency Response Plan and most recently we have furthered relationships with a number of fellow first responder agencies. This should provide direct benefit to all residents during future events.

While the District is more commonly associated with delivering water and then collecting and treating wastewater, we are consistently engaged in emergency response activities outside of larger-scale disasters like earthquakes and fires. You may have heard about or seen the water main break along the 3000-3100 block of Montrose Avenue last weekend (there was also a concurrent main break on the 4900 block of El Sereno). This was a significant emergency response effort akin to the main break on Pennsylvania Avenue several years ago. Like a recent well failure (Well No. 14) and booster pump failure (Paschall Station), the pipe under this section of Montrose Avenue beat us to the punch as all of these were likely on the list of infrastructure replacement projects next year (Fiscal Year 2024-25). The pipeline on Montrose was high on the list because, although relatively young (1961 vintage), there had been a history of a half dozen leaks and repairs. The pipe was corroded to the extent that there was barely enough metal remaining to weld the sections together. Indeed, the pipe failed as soon as the line was re-pressurized after repair, after which the decision was made to replace the section of pipe entirely.

There are several challenges posed by the situation and I'd like to let you know that we're approaching them with the mindset of business *not* as usual. As mentioned in my last letter, overcoming the many challenges we all face will take creativity (and partnership). One of the challenges is that in order to comply with local street paving standards, we'll likely need to wait several months to let the soil underground to compact properly. Not only could this pose an extended traffic inconvenience to the community, it will be expensive to temporarily pave, dig it back up and then apply a final paving over it.

It so happens that we recently acquired new talent that's handy with designing pipeline construction projects. This means that with a reshuffling of their workload and some long hours, we will pursue designing the pipeline in-house, typically an expensive project that takes months to deliver since we solicit and receive multiple bids on projects. It also so happens that we already have a contractor mobilized at the Orange Avenue pipeline replacement project near Monte Vista Elementary School. Between the time and cost savings from designing in-house, the savings from negotiating with a pipeline contractor that's already mobilized in our service area, and not having to pave twice, we (you) will realize significant savings that we can reinvest into a system that sorely needs it. Our system operators will follow with flushing, chlorinating and pressurizing the new lines. Our intent is to continue operating outside of the box, and I look forward to sharing future ideas and our execution of them.

Switching gears a bit, I wrote last time about a commitment to outreach. Letters like these are one forum for outreach but our plan is also to expand outreach. I'm not sure whether that's necessarily *more* outreach, but certainly more pointed, consistent and early in terms of messaging significant initiatives. Since we're on the subject, let me share that we need to conduct another rate study next year. Whereas we would typically begin that discussion (and initiate outreach) around February of next year, we began the discussion with the Board's Finance Committee last week. Through discussion, the Committee set a goal of soliciting feedback from customers as early as September/October, which initiates an early feedback sequence. Early feedback can be figured into policy decisions that respond optimally to customer input within the confines of what's best for the District's long-term ability to serve the community.

In the meantime, we are getting nearer to setting up a predictable time and space to engage with the community in an open setting (the library is a frontrunner as the venue). A good step to make sure you stay in touch is to contact Customer Service to update your contact information and then read the outreach letter when it's sent out.

To touch back on the Montrose Avenue leak, a big and heartfelt thank you from all of us at CVWD to the community. It's hard to grasp the value of having water available at all times at the tap

until it's not. Yet, the residents and businesses along Montrose Avenue couldn't have been more supportive and appreciative. Just like a cheering stadium can lift runners on a field, appreciative customers lift our staff, particularly our crew, especially when it comes to what is sometimes underappreciated. This is partnership, so thanks again.

That's all for now. Let's keep up the dialog. We'll keep the water flowing.

My best,

James

Letter to the Community <<< James Lee, CVWD General Manager
added by **CV Weekly** *on August 24, 2023*
View all posts by CV Weekly →

Foothill Boulevard Traffic Snarled After Water Main Break Floods 210

Traffic along eastbound Foothill Boulevard as well as eastbound traffic on Montrose Avenue and Honolulu Avenue are being affected by a closure on the eastbound Foothill 210 Freeway due to a water main break.

According to Officer Boyd, California Highway Patrol, eastbound lanes 1, 2 and 3 are open. Lane 4 and the eastbound Ocean View Boulevard off-ramp remains closed for an unknown duration.

Caltrans crews are in the area. However the water main belongs to Crescenta Valley Water District.

“There has been a large 12″ main break for a pipeline going down Rosemont and over the 210. The freeway is closed off at Pennsylvania Avenue and redirected to Ocean View Boulevard. Two valves have been turned off, which we’re hoping stops the flow. In the meantime, excess water is blowing off a 4″ outlet under the overpass on the eastbound side. Caltrans, CHP, Sheriff etc. are on site. We are hoping that based on how our water pressure zones are designed, there will be no extended interruption in service. Right now the focus is stopping water, draining the water, and getting traffic flowing again,” according to James Lee from CVWD.

According to CHP Officer Boyd, lanes four and five eastbound 210 remain closed. Traffic is being diverted from Pennsylvania Avenue.

Eastbound traffic on Foothill Boulevard is backed up in response to flooding on the 210 freeway.

Foothill Boulevard Traffic Snarled After Water Main Break Floods 210 added by CV Weekly on August 30, 2023
View all posts by CV Weekly →

Traffic was diverted off the 210 Freeway due to a water main break

causing eastbound traffic to be slowed on Foothill Boulevard as well as Honolulu Avenue and Montrose Avenue.
Photo by Mary O'KEEFE

By Mary O'KEEFE

It was a tough morning for commuters on Wednesday when a water main broke during rush hour on the Foothill (210) Freeway. The call came in to CHP at 6:15 a.m.

At one point all eastbound lanes of the 210 were closed from the Pennsylvania Avenue off-ramp to the Ocean View Boulevard off-ramp as crews from Crescenta Valley Water District (CVWD) and Caltrans responded to the break. It was discovered the equipment belonged to CVWD.

"There [was] a large 12″ main break of a pipeline going down Rosemont and over the 210. The [eastbound] freeway [was] closed off at Pennsylvania Avenue and [vehicles were redirected] to the Ocean View Boulevard [on-ramp]. Two valves were turned off, which we're hoping [will stop] the flow. In the meantime, excess water is blowing off a 4″ outlet under the overpass on the eastbound side. Caltrans, CHP, sheriff and [other emergency responders] were on-site. We are hoping that, based on how our water pressure zones are designed, there will be no extended interruption in service," said James Lee of CVWD.

He added the focus of the CVWD at the time was to stop the water, drain the water that accumulated on the road and get traffic moving.

Lanes 1, 2 and 3 of the eastbound 210 were reopened about 7:42 a.m., according to CHP Officer Boyd.

Eastbound lanes 4 and 5 were kept closed, as was the Ocean View off-ramp as crews continued to work.

Lee said the first step of the CVWD was to get the traffic flowing again, then assess the problem and then do the repair.

CVWD has turned off the water to this particular pipe. Customers were not affected as the water was rerouted.

“We are going to be on this issue for a while,” Lee said.

CVWD is working with Caltrans to find an entry point near the Rosemont overpass so crews can assess the actual damage to the pipe. It may be a long split or pinhole damage; they will not know until they get “eyes on the problem.”

“The idea is to put a liner on the pipe,” he said.

A liner will slide over the pipe to stop the leak; however, that is just a preliminary plan until it is determined what is the actual damage.

Water Main Break Causes 210 Traffic Interruption added by CV Weekly on August 31, 2023
View all posts by CV Weekly →

Letters to the Editor

Contests Supposed Outreach Efforts by CVWD

For more than 35 years as a resident living in Montrose, I have attended numerous CVWD Board of Directors meetings.

Mid-June this year – while paying my bill at the counter – I unexpectedly was told that CVWD is in the process of enacting a PTL (property tax lien) to my real estate and to every other real estate parcels where about 11,000 water meters are installed unless 50%+1 of owners who also live on their premises will object to in writing – by Sunday July 15, 2023.

To date, *no flyers, no notices, no mailings* of any sort were received by us or anyone in our neighborhood from CVWD**.**

Since then, I have objected of the PTL being enacted and requested answers at each CVWD Board Meeting to my questions ... *none* was received.

Below please find a copy of my Aug. 22, 2023 letter to Mr. Lee, CVWD acting general manager; additional copies were attached for his distribution to each board member and to the legal counsel.

Perhaps the Crescenta Valley Weekly may assist us locating an attorney or a qualified neighbor to challenge this property tax lien for all 11,000 account holders.

George Solymar
Montrose

Letter:

Dear Mr. Lee,

Subject: Property Tax Lien

What is commodity other [than] the water?

Is the pipe property?

Who owns the property?

When was the lien authorized by the Board of Directors?

When were the 11,000 account holders notified in writing – date and year?

When will I receive a copy of document 218, previously requested?

Is CVWD also paying separately *on a tax lien* for its water suppliers' pipeline? Los Angeles, Foothill etc.

Letters to the Editor added by CV Weekly on August 31, 2023
View all posts by CV Weekly →

NEWS FROM THE CVWD

We've had another eventful week in terms of operations. Over the last seven days, the CVWD operations team has handled five emergency leaks – one main break (quickly brought under control) and four service leaks at the 3000 block of Fairesta Avenue, the 2300 block of Panorama Drive, the 2400 block of Rockdell Street, the 3000 block of Stevens Street and the 2500 block of Fairmont Avenue, respectively. That's a lot of leaks in this kind of heat for our crew, so please give them a "thumbs up" if you see them out there. As a reminder, you can sign up for automatic notifications by email/text/phone in the event your immediate area is impacted by an outage (the service is called Everbridge). Most of those who've signed up and utilized the alerts have provided positive feedback, and we recommend it too – *https://www.cvwd.com/sign-up-for-emergency-notifications*.

In the meantime, our finance team has initiated the process to pursue bond financing for the next three years of pipeline replacements. Bond financings are typically completed over 90 days and starting now means that we will have funds ready by early spring to pay contractor invoices that start coming due around that time. It also means that we can be prepared early in case the bond market presents a favorable opportunity in terms of interest rates before then. The goal is to chase savings by

addressing problem pipelines before they become emergency leaks like those from this past week.

Last week, I noted that we've begun the discussion for another rate study much earlier this year (in September as opposed to next February). It's not typical to develop a study every year, but we are at the end of a three-year rate cycle. Perhaps more significantly, there have been a lot of changes with more anticipated changes down the line, whether potentially significant shifts in cost structures (cost of water, treatment, infrastructure, etc.), water conservation targets, or drought remediation measures. We've also taken note of the community's input over the last several years and a sampling of those topics include consideration for customers with large lots, the difference between different customer classes such as single-family, multi-family and commercial, how wastewater flow is measured, etc. These things will need more time to discuss. This, paired with our commitment to community engagement, means we're all best served by starting the process early.

Speaking of community engagement, we are planning to send a survey to the community in the coming month to solicit feedback about what's most important to customers – for example, how do you balance: infrastructure resilience / equity / affordability / water availability / financial sustainability / a host of other priorities?

To this end, we are currently recruiting for the regulatory & public affairs manager position that was recently left vacant. We're also looking for a communications consultant. I believe there is significant benefit to be had from engaging someone who can make sure we develop an effective outreach plan while ensuring that we appropriately maintain forums for dialog.

Thank you as always, and talk soon.

James Lee, General Manager
CVWD

NEWS FROM THE CVWD <<< JAMES LEE added by CV Weekly on August 31, 2023
View all posts by CV Weekly →

TO: CVWD Board of Directors
FROM: Marilyn Tyler
DATE: August 22, 2023
SUBJ: PUBLIC COMMENT #1 for CVWD Board Mtg on August 22 2023 (2 Pages)

PROPOSED ACTION ITEM: "CONSIDERATION AND MOTION TO REPEAL IN ITS ENTIRETY THE CVWD PROPERTY TAX ROLL CAPITAL CHARGE (REPEAL RESOLUTIONS 785 AND 786)"

As a customer of CVWD, I demand that (any member of) the CVWD Board put the following Action Item on the Board Agenda immediately: "CONSIDERATION AND MOTION TO REPEAL IN ITS ENTIRETY THE CVWD PROPERTY TAX ROLL CAPITAL CHARGE (SPECIFICALLY, REPEAL RESOLUTIONS 785 AND 786)."

CVWD treated the Public shamefully when the "CVWD Property Tax Roll Capital Charge" was originally put before the Public for a vote. Among numerous examples: CVWD withheld information from the Public (e.g., letter from LA County Supervisor Kathryn Barger). CVWD provided the Public with intentionally false information (e.g., fake Pipeline Replacement Revised Plan). CVWD illegally delayed the release of over 50 Protest Letters. CVWD harmed the Public by basing the fee schedule for the "Property Tax Roll Capital Charge" on intentionally made-up numbers (from fake Pipeline Replacement Revised Plan). CVWD insulted the many CVWD customers who showed up by providing shamefully inadequate facilities for the Public Hearing and Board Meeting, and treating the rightfully outraged Public as misbehaving children when they tried to get answers to their legitimate questions and concerns.

For CVWD to say in effect "We'll do better next time--- Let's move on" --- THIS IS INSULTING TO IRATE CVWD CUSTOMERS WITH LEGITIMATE GRIEVANCES.

Irate CVWD Customers had to fight an uphill battle on a playing field made intentionally not-level BY CVWD's OWN ACTIONS, while CVWD had the luxury and support of a no-doubt highly compensated consulting firm ("Water Resource Economics") to push forward their agenda for the "Property Tax Roll Capital Charge."

CVWD used the hard-earned money from CVWD customers to hire an expensive consultant ("Water Resource Economics") to figure out ways to take EVEN MORE MONEY from CVWD's financially-strapped customers!

HOW CVWD CUSTOMERS VIEW CVWD: "Get money from CVWD customers via water bill" ==> "Use money to hire expensive consultant to come up with more devious way to get money from CVWD customers" ==> "Get MORE money from CVWD customers via water bill and capital charge on property tax roll" ==> "Use money to hire expensive consultant to come up with more more devious way to get money from CVWD customers" ==> "Get MORE MORE MORE money from CVWD customers"...(ad infinitum)

The CVWD Board, via the capital charge, has placed the onerous burden on CVWD customers to yearly petition the Board to NOT RENEW the capital charge EVERY YEAR. But the power lies with the Board to renew the capital charge anyway. CVWD customers are placed in the humiliating position of American slaves humbly petitioning their "Mastah" for manumission. EVERY YEAR.

REQUEST TO THE CVWD BOARD

[1] CVWD claims it just received a copy of the June 26, 2023 letter from LA County Supervisor Kathryn Barger. **CVWD should take up Sup. Barger's offer to work with her office to find funding options which will not burden CVWD customers.**

REQUEST TO THE CVWD BOARD, cont.

[2] CVWD does not need the capital charge to get bond funding. **Any demands for revenue should be placed on the CVWD Water Bill, NOT THE PROPERTY TAX BILL.**

[3] RIGHT THE EXISTING WRONG: **Put the following Action Item on the Board Agenda immediately**: **"**CONSIDERATION AND MOTION TO REPEAL IN ITS ENTIRETY THE CVWD PROPERTY TAX ROLL CAPITAL CHARGE (REPEAL RESOLUTIONS 785 AND 786)."

Judith and George Solymar **Tel: 818.957.2739**
2203 Crescent Avenue Montrose, CA 91020 **jugs15@juno.com**

August 22, 2023

Mr. Lee, Acting General Manager
CRESCENTA VALLEY WATER DISTRICT
2700 Foothill Blvd.
La Crescenta, CA 91214-3590

Dear Mr. Lee...

Subject: Property Tax Lien

- What is Commodity other the Water?
- Is the PIPE Property?
- Who owns the Property?
- When was the Lien authorized by the Board of Directors?
- When were the 11,000 account holders notified in writing – date and year?
- When will I receive a copy of document 218, previously requested
- Is CVWD also paying for its water suppliers
  Los Angeles, Foothill etc. Pipeline?

Respectfully yours

George Solymar
George Solymar

CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report

To: Honorable President and Members of the Board of Directors September 12, 2023

From: James Lee, Interim General Manager

Subject: **General Manager Report**

General Manager's Report Topics:

- Rosemont / 210 Freeway main break
- Chloramines conversion
- California Special Districts Association Conference
- "Thirst for Knowledge"
- Field Maintenance & Operations Report – July 2023
- Engineering Report – August 2023

STAFFING

4 employees have a work anniversary in September: Brook Yared – 16 years; Pete Hilke – 11 years; Dave Inman – 7 years; Jude Herrera – 2 years.

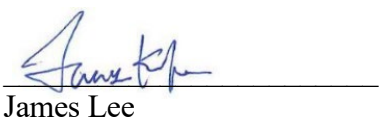
As of September 8th, the District has gone 604 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

Managers Meeting(s)	- September 5th, September 11th
Meeting with LADWP	- August 24th
Meeting with SoCalGas	- August 28th
Meeting with MWD & FMWD	- August 29th
Employee Relations Committee	- August 30th
Meeting with LCID	- August 31st
CA Data Collaborative Summit	- September 6th-7th
PWAG Board Meeting	- September 7th
Engineering and Operations Committee	- September 8th

Submitted by:



James Lee
Interim General Manager

Field Maintenance and Operations Report
July 2023

1 Water Main Repairs

23 Water Service
Repairs: 14 Replacements: 9

3 After Hours Leaks/Repairs

9,160’ Sewer Maintenance
Clean: 1,239’ Inspect: 7,921 Reports: 4

- **Field Maintenance Projects**
  - * D-jobs:
    - Install three 1” water service & one 1” meter upgrade
- **Operations Report**
  - * Chloramine Conversion & prep for transition
  - * Cresta Heights – motor & pump removed for maintenance
  - * Well #14 – Pump, motor & column removed for restoration
  - * Williams – Booster Pump C removed for service
- **Electrical/Telemetry**
  - * Well #2 & Aronite Plant bypass program
  - * E-962 & E-939 – Integration build with Apex – Williams Station
- **Wastewater**
  - * Lift Station Visits: 4 (De-rag pumps, check valves & add degreaser)

Field Maintenance and Operations Report
July 2023

Days without a lost-time incident: 565

120+ Water Quality Samples w/ additional PFOS confirmation samples

91 Valves

Replace: 0 Exercise: 91 Install: 0

36 Fire Hydrant Maintenance

Rebuild: 0 Replace: 1 Inspect: 35

0 Water Meter Replacement

¾": 0, 1": 0, 1.5": 0, 2": 0, 3": 2, 4": 2

- **Training/Cross Training**
  * Advanced Water Distribution
    - Siaki M.
- **New Certification**
  * None to report
- **Safety**
  * Glenwood Plant
    - Heat Awareness

Engineering Report

September 12, 2023

To: Honorable President and Members of the Board of Directors — Staff Report

From: Brook Yared, M.S., P.E. – Interim Director of Engineering & Operations

Subject: **Engineering Report – August 2023**

---

1. Water Production Report

- August 1 – 31 – Water production – 44%/56% split – 113.9 MG for the month
- Average use – 7.4% less than 2022 and 15.9% less than 5-yr average

- **Rainfall Update**
  - 4.63" for August 2023 – Highest August rainfall total on record
  - Rainfall Total for WY 2022/23 for August 2023 – 47.51"

- **Engineering Update - Water**
  - **FY 23/24 Capital Improvement Project**
    - Goss Canyon #2 Reservoir Rehabilitation
      - Pending 90% Design Review
      - Agreements and Specifications in development
    - Well 14 – Rehabilitation began August 28, 2023
    - Paschall Booster B
      - Motor cooling issue with submersible pump
      - Rental pump and motor scheduled installation week of September 18, 2023
      - New Vertical Turbine Pump and Motor Assembly Installation – Tentatively early October 2023
    - Conversion to Chloramination
      - Data review with WQTS – 9/8/2023
      - Outreach planned for late September
    - GIS - August submission under review
    - Ramsdell Mixing Station/Pressure Reducing Station – Above ground temporary PRV under Review
  - **FY 22/23 Capital Improvement Project**
    - 2600 & 2700 Blocks of Orange Ave
      - Anticipated project completion Early October
  - **AMI Customer Engagement Portal**
    - Approximately 7,110 radios and lids to install/replace
    - Currently 228 customers are waiting to be configured for the Customer Engagement Platform
    - 211 are active on the Customer Engagement Platform
    - 160, ¾ & 1-inch meters including laterals to replace
  - **Replacement of Supervisory Control and Data Acquisition (SCADA) System**
    - Project Schedule – April 2022 to December 2023
    - APEX – Programing & Integration
    - Sites Completed
      - Wells 5, 7, 8, 9, 11, 14 & 16
      - Ramsdell Mixing Station
      - Glendale/CVWD Interconnection
      - Glenwood Plant with Wells 6, 10, 12 & 15

    - Mills Plant
    - Encinal Reservoir
    - Ordunio Reservoir/Nitrate Removal Plant
    - Well 2 Controls Update
    - Ocean View
    - Paschall
  - Sites Pending Integration (2023)
    - Oak Creek – September 2023
    - Eagle Canyon – October 2023
    - Chloramine Conversion Support – October 2023

- **Engineering Update - Wastewater**
  - Wastewater Master Plan
    - Model review and BRVA in Early October
    - Reviewing/incorporating future development initiatives
    - Lift Station Condition Assessment – Complete
- **Grant Program**
  - USBR Small-Scale Water Efficiency Grant 2022 – 3" & 4" Meters – Preparing for claim submission
  - USBR Small-Scale Water Efficiency Grant 2022 – 1-½-inch Meters – Ordering Materials
  - Cal OES – New emergency generators and seismic feasibility study – Pending Funding Availability
  - Water Recycling Grant – Application Submitted July 10, 2023
  - Stormwater Capture Project at Crescenta Valley County Park – No Report
- **Developer Projects**
  - Development Services Consultant Support Scoping
  - 2434 Foothill – New 31 Units – Hydrant Installation – See memo
  - 2345 Mira Vista – New 4 units – See memo
  - On hiatus
    - 2341 Mira Vista – New 4 Units
    - 3037/3043 Foothill – Pending Special Contract Completion
    - 4360 Ocean View – 7 units – Pending Reconciliation and Transfer
    - 2201 Honolulu – New 4" water main
    - 1961 Waltonia – New 6 units
    - 4521 Briggs/2413 Foothill – New 81 units
    - 3900 Park Place – New 28 units
- **FMWD** – La Crescenta Reservoirs – Landscaping

CRESCENTA VALLEY WATER DISTRICT

WATER PRODUCTION REPORT

August 1 - August 31, 2023

Well Production:	43,562,200	Gals		
GWP Production:	4,623,000	Gals		
Gravity Production:	1,446,842	Gals	% GW	44%
FMWD:	64,289,321	Gals		
City of Glendale:	0	Gals	% Import	56%
TOTAL:	113,921,363	Gals		
	349.61	ac-ft		
Glenwood Nitrate Water Reclamation Plant:*	0	*Included in Well Production		

WATER DEMAND COMPARISON

Time Period	Average Daily Usage (gals)	Current Period Change
August 1 - August 31, 2023	3,587,434	
August 1 - August 31, 2022	3,872,843	-7.4%
5-yr Average - July 2018 - 2022	4,263,652	-15.9%

RAINFALL: August 1 - 31, 2023 4.63"

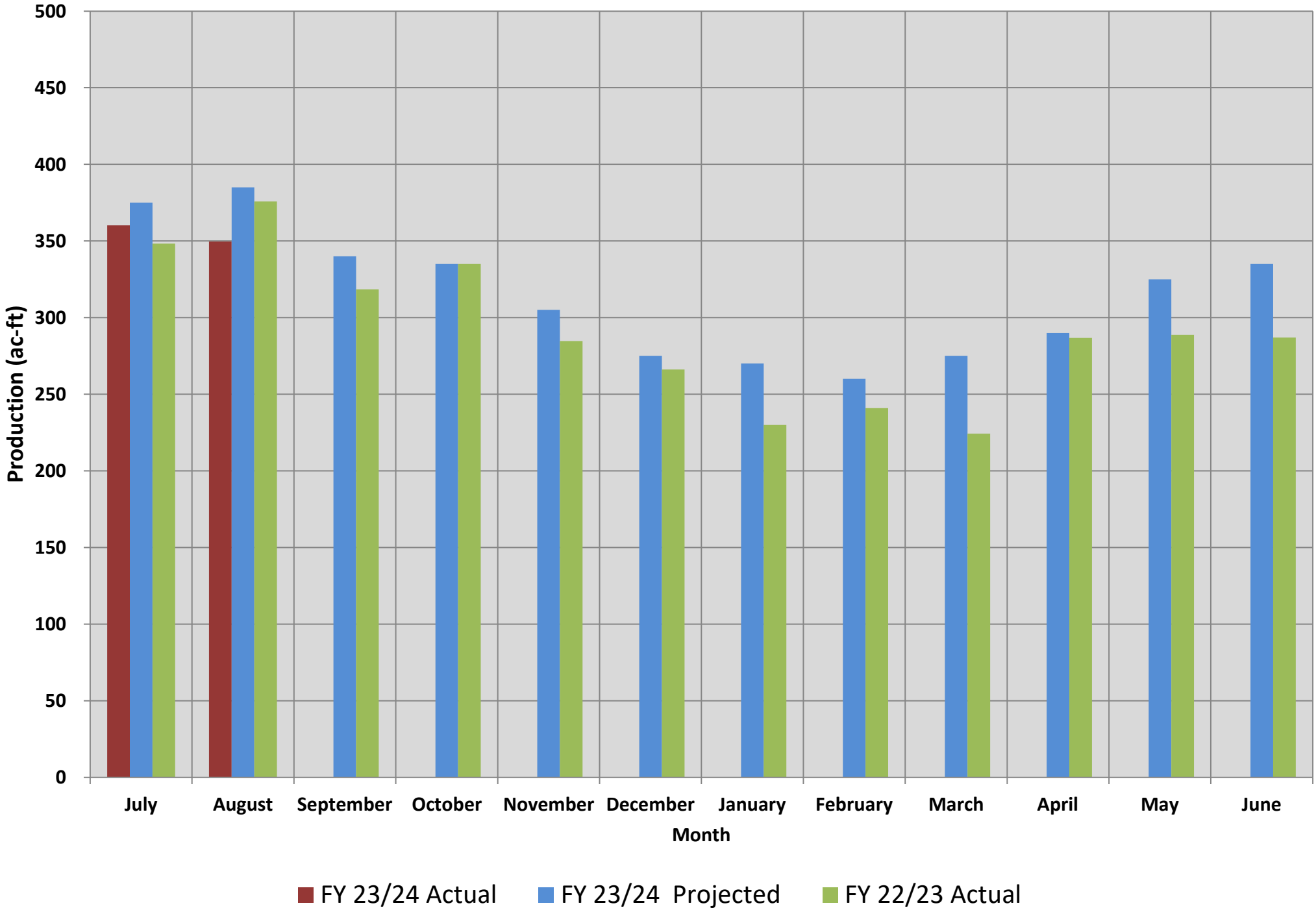
Season-To-Date: 47.51"

2023/24 Fiscal Year Water Production			WY 22/23 - Groundwater Production Water Rights		GWP (Well 16) Water Production - 2023		Purchased Water Production Tier 2 Allocation 2023	
Month	**Actual Total Water Production (ac-ft)**	**Projected Total Water Production (ac-ft)**	**Month**	**Month**	**Month**	**Well Production (ac-ft)**	**Month**	**Imported Water Production (ac-ft)**
July	**360**	**375**	**October**	**165**	**January**	**13**	**January**	**74**
August	**350**	**385**	**November**	**155**	**February**	**13**	**February**	**92**
September		**340**	**December**	**152**	**March**	**14**	**March**	**67**
October		**335**	**January**	**143**	**April**	**13**	**April**	**94**
November		**305**	**February**	**136**	**May**	**14**	**May**	**105**
December		**275**	**March**	**144**	**June**	**14**	**June**	**106**
January		**270**	**April**	**180**	**July**	**14**	**July**	**178**
February		**260**	**May**	**170**	**August**	**14**	**August**	**197**
March		**275**	**June**	**168**	**September**		**September**	
April		**290**	**July**	**168**	**October**		**October**	
May		**325**	**August**	**138**	**November**		**November**	
June		**335**	**September**		**December**		**December**	
Total to Date	710	760	Total to Date	1,718	Total to Date	109	Total to Date	913
Projected	3,720	3,770	Water Rights	3,294			Tier 2	2,154
% of Projected	18.8%	20.2%	% of Rights	52%			% of Allocation	42%
Remaining	3,060	3,010	Remaining	1,576			Remaining	1,241

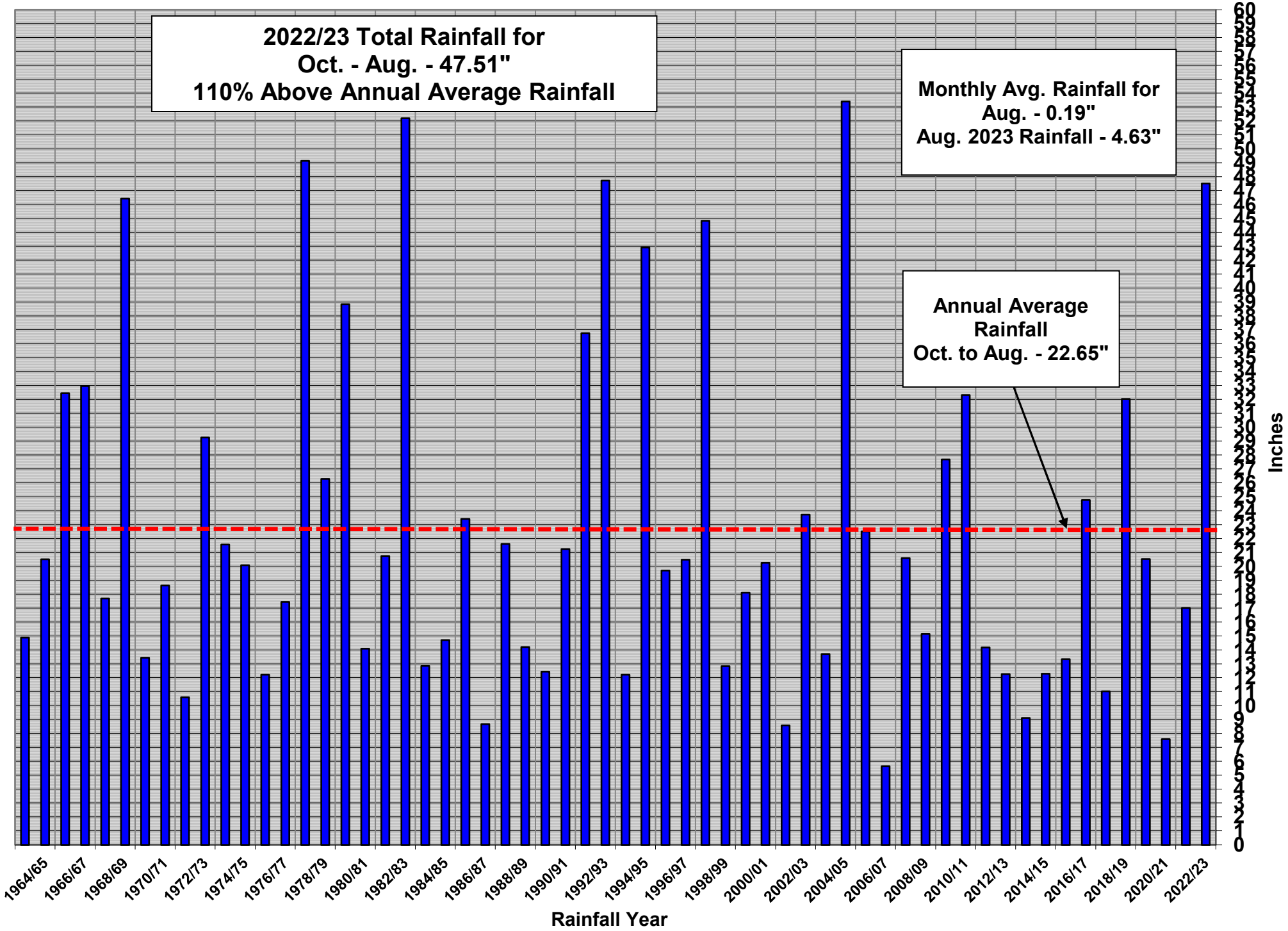
NOTE:

1) Blue Numbers = Estimated Water Production

Monthly Water Production:
FY 23/24 Actual, FY 23/24 Projected & FY 22/23 Actual

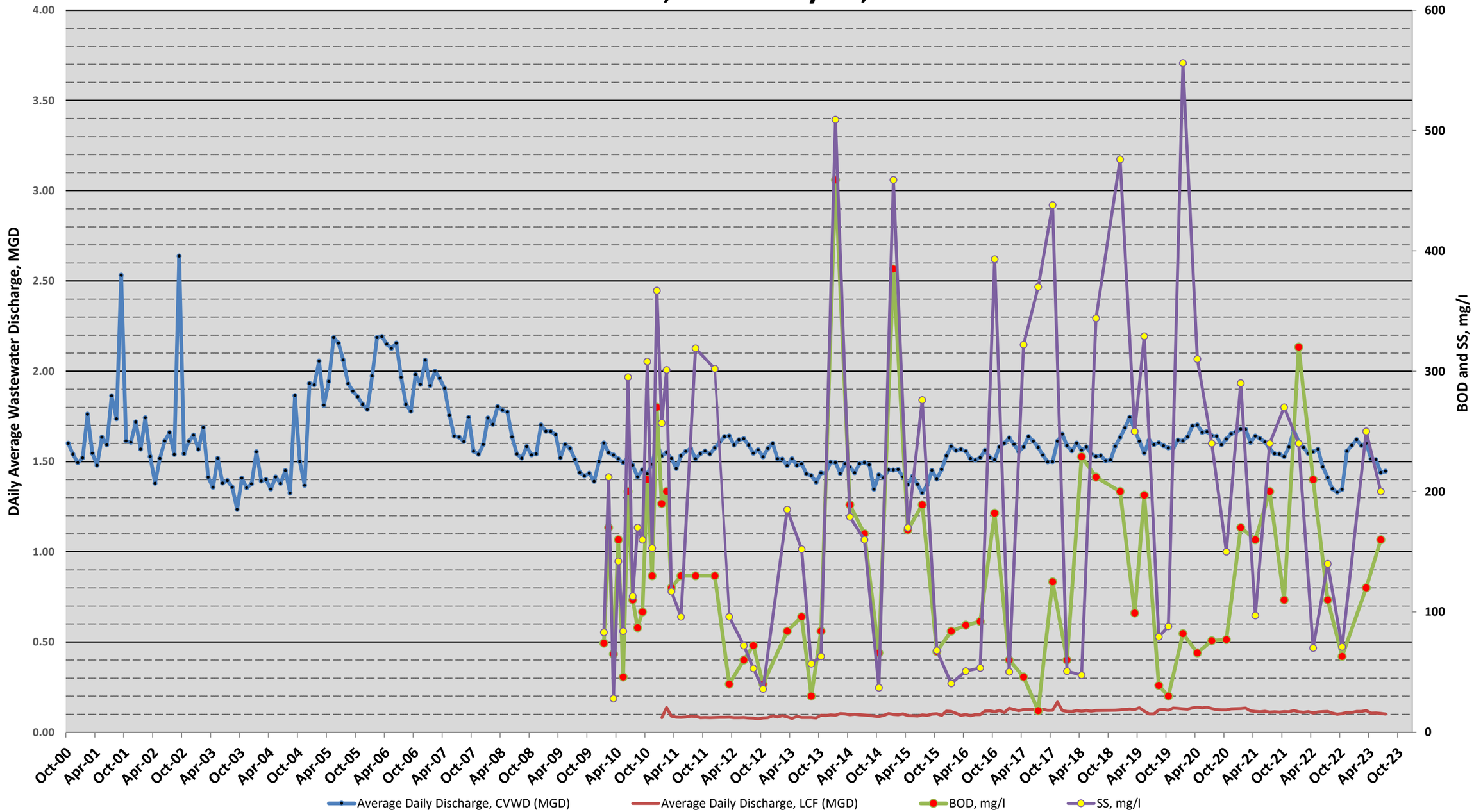


Monthly Rainfall - 1963/64 - 2022/23 (Oct. 1 - Aug. 31)



Revised Date: 9/7/2023

CVWD Daily Average Wastewater Discharge and Strength
October 1, 2000 - July 30, 2023



CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
August 30, 2023 at 5:00 PM

Agenda for the Meeting of the Employee Relations Committee
of the Crescenta Valley Water District

Posted August 29, 2023 at 5:00 PM

TELECONFERENCING NOTICE

This meeting will be conducted in person at the address listed above. Members of the public may also participate virtually by using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increase phone traffic).

(669) 900-6833	**(346) 248-7799**	**(929) 205-6099**
(253) 215-8782	**(301) 715-8592**	**(312) 626-6799**

Then, enter Access Code: 861 3693 8796

Those members of the public who are able to and would like to additionally participate with a computer through videoconference may access the Zoom videoconferencing tool available at the following link:

https://us02web.zoom.us/j/86136938796

If there is a disruption of service, this meeting will continue without remote participation. The remote participation option is provided a convenience to the public and is not required.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at customerservice@cvwd.com. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Call to Order

Adoption of Agenda

Public Comment:

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-transferable, and speakers are limited to three (3) minutes each. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Action Item(s)

The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable and speakers are limited to one two-minute (2) comment each.

1. Discuss organizational chart vision and review proposed job descriptions and associated topics.

Committee Members' Request for Future Agenda Items

Adjournment

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
September 8, 2023 at 3:00 PM

Agenda for the Meeting of the Engineering & Operations Committee
of the Crescenta Valley Water District

Posted September 7, 2023 at 3:00 PM

TELECONFERENCING NOTICE

This meeting will be conducted in person at the address listed above. Members of the public may also participate virtually by using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increased phone traffic).

(669) 900-6833	**(346) 248-7799**	**(929) 205-6099**
(253) 215-8782	**(301) 715-8592**	**(312) 626-6799**

Then, enter Access Code: 824 4174 8185

Those members of the public who are able to and would like to additionally participate with a computer through videoconference may access the Zoom videoconferencing tool available at the following link:

https://us02web.zoom.us/j/82441748185

If there is a disruption of service, this meeting will continue without remote participation. The remote participation option is provided as a convenience to the public and is not required.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at customerservice@cvwd.com. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Call to Order

Adoption of Agenda

Public Comment:

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-transferable, and speakers are limited to three (3) minutes each. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Action Item(s)

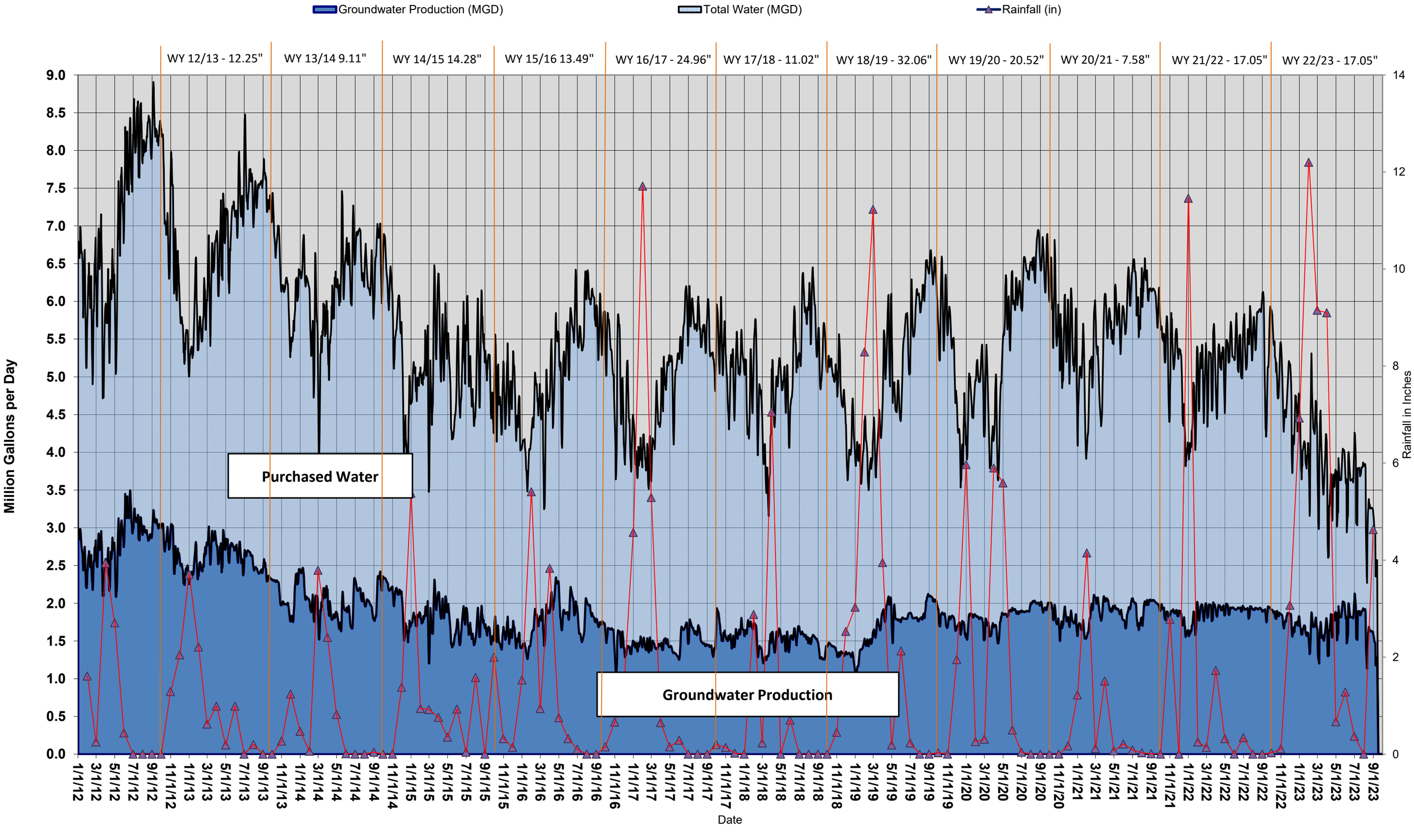
The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable, and speakers are limited to one two-minute (2) comment each.

1. Status of Local Water Supply
2. Update on Conversion to Chloramine Disinfection
3. Discussion of PFAS Update
4. Discussion of EV Charging Stations
5. Annual Pump and Well Contract
6. 23/24 Pipeline Design RFP
7. 22/23 CIP Update

Committee Members' Request for Future Agenda Items

Adjournment

Water Production Chart w/ Rainfall 2012-2023



CRESCENTA VALLEY WATER DISTRICT
STAFF REPORT

Information Item No. 2
September 8, 2023

To: Engineering and Operations Committee

From: Brook Yared, M.S., P.E. – Interim Director of Engineering & Operations

Subject: **Project Update – Conversion to Chloramines, Project E-995/E-1052**

INFORMATION ITEM:

Disinfection Conversion to Chloramines, Project E-995/E-1052 - Project update of CVWD's disinfection conversion to chloramines

BACKGROUND:

In August 2018, with groundwater production not fully recovered from the past drought, CVWD's water supply blend shifted to 40% groundwater and 60% imported water. This, coupled with the additional chlorine needed to achieve breakpoint chlorination in the system, caused an increase in TTHM levels at the four (4) regulatory compliance points within the distribution system. Staff implemented a water quality sampling plan to measure levels of TTHMs weekly to ensure CVWD complies with DDW's Disinfection By-product Rule. As shown on the attached charts, since August 2018, CVWD's TTHM quarterly running annual average level has trended below the maximum contaminate level (MCL) of 80 micrograms/liter. Levels have been well below the MCL since these measures were implemented. Since starting this work in 2018, CVWD has installed new equipment to help reduce TTHM production while on free chlorine and reduce "water age". These improvements have the added benefit of contributing to more advanced control and monitoring strategies for chloramine disinfection.

On August 23, 2022, the Board authorized the award of contract for the Completion of the Conversion to Chloramines, E-1052. At that time, Brown and Caldwell had won the award with Helene Baribeau, Ph.D. Dr. Baribeau parted ways with Brown and Caldwell in December 2022. Dr. Baribeau indicated that she will not be able to keep the District on as a client in her new capacity.

After receiving direction from the Engineering Committee at our March 1, 2023, meeting, Staff has contracted with Water Quality and Treatment Solutions (WQTS), one of the lead consultants in the Chloramine permit development undertaken in 2018, to review all permitting requirements, assist in ordering any additional probes and/or analyzers, and developing a strategy to transition CVWD's water system to chloramine disinfection.

Since receiving this direction, staff has engaged with Apex Manufacturing Solutions (Apex) and WQTS. Additional materials have been ordered and installed, and the control study has been reviewed with staff and additional onsite visits were requested from Apex for support in the month of August

DISCUSSION:

WQTS has highlighted several issues in the system that might not perform well when we convert to Chloramines. The most notable of these issues is a water age issue surrounding the Cresta Heights reservoir and Zone 8. Cresta Heights has a lot of storage that serves a small population. Water can sit in this reservoir for longer periods than other higher demand zones in similar elevations. Staff plans to remove one of the tanks at Cresta Heights from operation, which should still provide for the demands in zone 8 and higher zones while greatly reducing the water age at the site.

There have also been recent reports and presentations that have caused concern. Helene Baribeau, CVWD's original consultant selected to assist with conversion to Chloramines, gave a presentation at AWWA's Water Education seminar held on August 17, 2023. CVWD's JPIA representative also provided staff with an article from a District that has returned to free chlorine disinfection after converting to chloramines. Each of the above highlighted issues with nitrification, red water, and maintaining adequate disinfection residuals as reasons why to stay with Free Chlorine. All of these items are being reviewed by WQTS. District staff plans to meet with WQTS in September to review and attempt to address these concerns.

Prepared by:

Kellen J. Boyce
Systems and Operations Manager

Submitted by:

Brook Yared, M.S., P.E.
Interim Director of Engineering & Operations

Attachments:

1. Chloramine Conversion Article - JPIA

g:\engineering committee\2023 ec memo\09082023\09-08-23 ecm - update on conversion to chloramines.docx

Technical Note

Chloramines- The Good & The Bad

An Evaluation of Chloramine Treatment for DBP Reduction

V0308

Introduction

In an effort to comply with EPA Disinfection By-Product (DBP) requirements, more and more water facilities have been switching disinfectants from free chlorine to chloramines, which are formed by mixing chlorine and ammonia. Chloramines offer some distinct advantages over free chlorine. As chloramines are weaker oxidants than chlorine, there are generally less reactions with organic matter, resulting in the formation of fewer regulated DBPs. The persistence of chloramines also allows residuals to last much longer in distribution systems.

Chloramines are not, however, without their own disadvantages. Though chloramines are safe for consumption in drinking water because digestion neutralizes them before they enter the bloodstream, other forms of intake can be dangerous. For example, chloramines have been shown to interfere with the proper absorption of oxygen if taken directly into the bloodstream; for this reason, they cannot be present in water used for kidney dialysis. Similarly, chloramines are toxic to fish (both freshwater and saltwater), reptiles, and amphibians.

Unregulated DBP Formation

Laboratory tests have also shown that chloraminated water contains concentrations of dissolved organic halogens (DOX), but many of these DOX constituents have yet to be fully identified. Although chlorine has been used to disinfect water for over 100 years, less than 50 percent of the DBPs in chlorinated drinking water have been identified. Only 17 percent of the DBPs formed by chloramines have been identified.[1]

Chloramines are known to form many non-halogenated DBPs. Two such species related to chloramines are: iodoacids and nitrosamines. Iodoacids have been categorized as the most toxic and DNA-damaging DBP in mammalian cells, while nitrosamines can be 100–10,000-fold more carcinogenic than THMs. The best known of these nitrosamines is N-nitroso-sodimethylamine (NDMA), but researchers have recognized the need to search out other known and unknown forms of nitrosamines to determine whether they too are problematic.

Unintended Consequences - Links to Increased Lead Levels

Recently, a switch to chloramines has been linked to excessive lead and copper corrosion in the distribution system. While the chloramine compound itself does not increase the potential for corrosion there are two ways in which the use of chloramine can indirectly affect corrosion of lead and copper. First, when chloramine is used in water treatment as a residual disinfectant, it can change the chemical properties of the water, which subsequently can impact lead and copper corrosion. Certain conditions related to pH, alkalinity, and dissolved inorganic carbonate levels in the water are associated with increased corrosivity, which can cause lead to more readily dissolve from pipe material. The decreases in pH and alkalinity associated with nitrification can increase the corrosive nature of the water and lead to problems with metals leaching from pipes.

Secondly, chloramines eliminate free chlorine. The oxidation strength of free chlorine and chloramines are quite different. The difference in oxidation strength can also affect the chemistry and solubility of metals in solution. While chloramines are a weak oxidant, chlorine is a strong oxidant. Experts suspect that free chlorine actually serves as a form of corrosion control treatment. The hypothesis is that it is the free chlorine that is contributing to metal leaching. Elemental chlorine combines to form an oxide with lead or copper to create a protective layer inside distribution system pipes/ plumbing, slowing the rate of lead corrosion. Since chloramine is not as strong of an oxidant, it does not form this same insoluble oxide and the result may be increased levels of dissolved metals.

MIEX®

ORICA WATERCARE

Nitrification Risks

Another potential adverse outcome of chloramination is nitrification within the distribution system. Nitrification is a two-step microbially mediated process that involves the conversion of ammonia to nitrite by nitrosomonas, and then nitrite to nitrate by nitrobacters. The risk of nitrification is particularly high where water temperatures are warm (25-30 deg C) and distribution detention times are long. Water quality indicators of the occurrence of nitrification are listed below:

- Loss of disinfectant residual
- Increase in HPC (using R2A agar)
- Lowering of pH
- Decrease in alkalinity
- Reduced dissolved oxygen concentrations
- Increase in nitrite
- Increase in nitrate

The presence of nitrite or nitrate in the water supply can have acute health impacts causing methemoglobinemia, or blue baby syndrome, which is a blockage of oxygen transport in the bloodstream.[2] At greatest risk are infants below six months of age and those suffering from a genetic deficiency of certain enzymes. Pregnant women may also be at a higher risk of methemoglobinemia than the general population.

Once nitrification occurs in the distribution system, there is very little that systems can do in order to correct the problem. Water systems may periodically perform a free chlorine "burn", in which the system switches over to free chlorine disinfection for a few weeks out of the year in order to curb bacterial growth in the distribution system. Periodic flushing may also be used restore distribution system water quality. If nitrification episodes are frequent, one must consider the economic effects of water usage associated with increased flushing.

Increased Water Quality Analysis

Also associated with chloramination is a need for increased laboratory and field analysis. The ratio of chlorine and ammonia used to create chloramines must be carefully controlled. If too much chlorine is added, dichloramines can form, resulting in taste and odor problems. If too little chlorine is added relative to ammonia, the excess free ammonia in the water can lead to nitrification in the distribution system. Laboratory analysis for monochloramine, total chlorine, and free ammonia can help water systems control the chloramination process. An online analyzer may also be used for this application.

Additionally, the ratio of chlorine and ammonia must be maintained when booster disinfecting. In order to properly booster disinfect chloraminated water, both chlorine and ammonia concentrations must be monitored, and often both chlorine and ammonia must be added to the water to maintain the correct ratio of both.

In order to proactively identify and prevent nitrification episodes, water systems may increase distribution system water quality monitoring. Parameters associated with nitrification include monochloramine, free ammonia, nitrite, nitrate, pH, alkalinity, HPC, and dissolved oxygen. These should be monitored regularly at various locations in the distribution system in order to establish a baseline for distribution system water quality so any problems can be quickly identified.

Finally, if nitrification results in increased distribution system flushing, basic water quality monitoring is recommended to control the flushing process. Recommended parameters for flushing include chlorine residual, pH, and turbidity, at a minimum.

Given the increased costs and labor that can result from chloramination and the conflicts water utilities now face on how to reduce the abundant known and unknown DBPs and keeping lead and nitrate levels low, perhaps the best solution is removing the precursors from the source water and staying with free chlorine.

Article Resources
[1] Dr. Michael J. Plewa, genetic toxicologist, U. of Illinois
[2] Nitrification Occurrence and Control in Chloraminated Water Systems [Project #710]

CRESCENTA VALLEY WATER DISTRICT
STAFF REPORT

Information Item No. 3
September 8, 2023

To: Engineering and Operations Committee

From: Christy Colby – Regulatory and Public Affairs Manager

Subject: **PFOS Sampling Results**

INFORMATION ITEM:

Discussion of PFOS Regulations and Sampling Results

BACKGROUND:

Per- and polyfluoroalkyl substances (PFAS) are a group of more than 12,000 human-made substances that are not naturally occurring and are resistant to heat, water, and oil. These chemicals have been used and produced extensively in the United States for both commercial and industrial purposes, as well as for emergency fire response. Due to their unique chemistry, PFAS have been widely used as surface coatings and protectant formulations in consumer goods such as carpet and home textiles; clothing; food packaging; and non-stick cookware. PFAS substances have also been used as a surfactant in chrome plating, firefighting foam, and other industrial applications. In typical conditions, PFAS are resistant to degradation and do not break down in the environment. These substances can accumulate within the human body and are toxic at relatively low concentrations.

Discussion:

The District began its UCMR 5 testing in late February. Upon receiving results for the laboratory, the District informed the Department of Drinking Water (DDW) that there were sample results greater than the DDW notifications levels for PFOA. PFOS, and PFHxs. Samples collected at imported water only locations were all Not Detected for any PFOS substances. DDW requested the District perform confirmation samples and additional samples on the District's groundwater wells.

On April 19, 2023, the District collected confirmation samples at UCMR 5 sampling locations and samples from CVWD groundwater wells. These are the results that are summarized in the attached table. In summary, nearly half of the District's wells had PFOA or PFOS above the States Notification Levels and one location, Well 8, greater than the State's Response Level. Please note that Well 9 was undergoing rehabilitation and unable to be sampled.

Staff developed a mass balance at Glenwood to estimate the contribution of Well 8 on the combined flow exiting the Glenwood Nitrate Facility. The table below summarizes those results based on the average flows for the month of June 2023 and the sampling results collected in April. Additional samples were collected in June, July and August. The samples collected after April all show a large drop in concentrations of PFOA, PFOS and all other Gen-X constituents, but concentrations of certain wells were still above the proposed federal MCL.

After some discussion with DDW, it was determined that performing a mass balance at the Mills and Glenwood facilities would not provide enough data to calculate the concentration of PFAS constituents at the point of use. Based on this new mass balance, staff estimates that PFAS concentrations at the point of use is projected to be below the response level for PFOA, PFOS, and all Gen-X constituents for the time being.

What do the Results Mean:

At this time, CVWD's water supply still exceeds the Notification Levels, which are set by DDW. The District was required to notify the Board or Council members of all other agencies where the District serves water within a 30-day time frame. The District mailed letters to the appropriate persons, and the CVWD Board received a copy of that letter (See Attached). The District was also required to inform its own governing body within a 30-day time frame. This was done through an email from Mr. Lee. The District

is required to inform all its water customers within a 12-month period. Staff plans to accomplish this notification through the District's annual Consumer Confidence Report (CCR). There is required language, much like the letter that was sent out to other agencies. Unless the Board elects to send out a separate mailer, the CCR report would need to be completed and sent to customers the first week of June prior to the standard July 1, 2024 deadline.

Considering the recent samples taken and the new mass balance being calculated, CVWD can utilize blending as long as we provide a monthly report to DDW summarizing a daily mass balance at the point-of-use and submit that summary along with CVWD's regularly monthly/quarterly/annual water quality reporting (see attached).

Federal regulation limits are much lower than the current State limits. More than half of the District's wells would be over the 4 ppt MCL for PFOA and nearly half for PFOS. The other regulated substances referred to as the Gen X chemicals use a Hazard Index (HI) to calculate the MCL. The HI is a commonly used risk management approach for mixtures of chemicals (USEPA, 1986a; 2000a). In this approach, a ratio called a hazard quotient (HQ) is calculated for each of the four PFAS (PFHxS, HFPO-DA and its ammonium salt (also known as GenX chemicals), PFNA, and PFBS) by dividing an exposure metric. Using the index, it appears that the only vulnerable sources are Well 1, Well 11 and Well 8.

As this regulation has not been finalized, there is currently no timeframe for compliance. Once the regulation is promulgated, there will be a sampling period and a timeline for compliance. Should treatment beyond a blending scenario be necessary down the road, current treatment processes that can be effective for PFAS removal include granular activated carbon, ion exchange resins, and high-pressure membrane systems.

Prepared by:

Kellen J. Boyce
Systems & Operations Manager

Submitted by:

Brook Yared, MS, PE
Interim Director of Engineering & Operations

Attachments:
1. PFAS Sampling Results
2. PFOA and PFOS Concentration Summary

g:\engineering committee\2023 ec memo\07102023\07-10-23 ecm - pfos.docx

EPA 533 in ng/L

sample date 4/19/2023

Sample Description	PFBA	PFBS	PFDA	PFHpA	PFHpS	PFHxA	PFHxS	PFNA	PFOA	PFOS	PFPeA	PFPeS
Combined Wells 1, 5, 7, 9	3.9	6.5	ND	2.5	ND	7.3	**5.0**	ND	4.1	1.1	7.5	1.3
Combined Glenwood	5.0	4.5	ND	3.9	ND	9.2	**4.0**	0.8	**7.1**	**6.3**	9.6	0.91
Glenwood Plant	5.1	4.7	ND	4.1	ND	9.5	**3.7**	0.84	**7.2**	**6.6**	9.9	0.86
Encinal Reservoir	3.8	3.6	ND	2.5	ND	6.2	2.9	ND	4.3	**4.0**	6.4	0.68
Oak Creek Reservoir	3.0	3.1	ND	1.5	ND	3.9	2.5	ND	2.4	1.4	3.9	ND
Well 1	7.3	14	ND	4.8	ND	15	**5.8**	ND	**8.8**	2.0	13	1.4
Well 2	6.1	8.4	ND	4.0	ND	9.7	**4.8**	ND	**5.9**	2.5	12	1.1
Well 5	2.7	3.1	ND	1.4	ND	4.4	**3.0**	ND	2.2	0.93	5.4	1.0
Well 7	3.1	5.6	ND	2.1	ND	6.2	**6.7**	ND	2.8	0.95	5.5	1.5
Well 8	11	8.9	1.7	11	ND	22	**5.4**	3.2	**23**	**21**	22	1.1
Well 10	1.8	2.4	ND	0.78	ND	2.8	1.5	ND	0.85	ND	3.3	ND
Well 11	5.0	8.3	ND	4.4	ND	9.7	**6.1**	ND	**6.6**	**4.9**	9.6	1.1
Well 12	3.1	3.9	ND	2.0	ND	6.1	**3.7**	ND	2.0	0.72	6.5	0.89
Well 14	2.3	2.9	ND	1.2	ND	4.4	**4.7**	ND	1.5	ND	4.2	0.67
Well 16	2.3	2.9	ND	1.2	ND	3.5	2.5	ND	1.3	0.69	4.6	0.93
Pickens	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Proposed Federal MCL 4 MCL

Proposed Hazard Index regulation

Regulated by the State Divison of Driking Water

Note: PFOS subatances that were Not Detedted (ND) for all samples are not reported in this table

RED TEXT Over the States Response Level

EPA 533 in ng/L	Gen X	Sample Date 6/28/2023								
Sample Description	**HFPO-DA**	**PFBA**	**PFBS**	**PFHpA**	**PFHxA**	**PFHxS**	**PFNA**	**PFOA**	**PFOS**	**PFPeA**
Glenwood Plant Blend	ND	4.6	6.0	2.3	6.6	4.2	ND	3.8	3.2	7.8
Goss Canyon #1	ND	4.0	3.9	1.6	4.4	3.0	ND	2.5	1.2	4.7
Markridge	ND	4.1	3.7	1.4	4.1	2.7	ND	2.3	1.1	4.4
Oak Creek #1	ND	3.7	3.7	1.6	4.1	2.5	ND	2.7	1.2	4.3
Oak Creek #2	ND	3.9	3.9	1.5	4.2	2.8	ND	2.5	1.3	4.8
Ocean View	ND	4.1	4.3	2.0	4.9	3.3	ND	3.0	1.9	5.7
Ordunio	ND	4.1	4.4	2.1	4.8	3.3	ND	2.9	2.0	5.8
Pahshall	ND	2.1	ND	ND	ND	ND	ND	ND	ND	0.86
Pickens	ND	1.7	2.1	0.92	2.3	1.5	ND	1.5	0.72	2.6
Rosemont	ND	3.1	3.5	1.5	4.0	2.5	ND	2.3	1.0	4.4
Shields	ND	3.1	3.6	1.6	4.1	2.7	ND	2.8	1.3	4.6
Cresta #1	ND	3.8	3.6	1.5	4.3	2.6	ND	2.5	1.2	4.4
Cresta #2	ND	3.7	3.6	1.5	3.9	2.7	ND	2.5	1.2	4.3
Dunsmore	ND	3.3	3.6	1.5	3.9	2.6	ND	2.4	1.1	4.3
Eagle	ND	3.9	3.5	1.5	3.9	2.8	ND	2.4	1.2	4.2
Edmund #1	ND	3.7	3.4	1.5	3.8	2.6	ND	2.6	1.2	4.2
Edmund #2	ND	3.1	3.7	1.6	4.1	2.9	ND	2.7	1.2	4.5
Encinal	ND	3.9	4.6	2	4.9	3	ND	3.1	2	5.6
Sampling Station at Fairmount and Briggs	ND	3.7	3.7	1.6	3.9	2.7	ND	2.5	1.2	4.6
2752 Pinelawn	ND	4.0	3.8	1.6	4.1	3.0	ND	2.7	1.4	4.6
3250 Brookhill	ND	4.0	3.7	1.5	4.1	2.8	ND	2.3	1.2	4.5
4715 Ramsdell	ND	4.0	3.8	1.5	4.0	3.0	ND	2.4	1.3	4.5
5603 Pineglen	ND	3.9	3.8	1.5	4.2	2.8	ND	2.6	1.3	4.6
Well 1	ND	5.7	11	3.7	10	6.2	ND	7.3	1.8	9.8
Well 2	ND	5.9	9.3	4.4	11	4.3	ND	5.6	2.1	12
Well 5	ND	3.1	4.6	1.6	5.0	3.5	ND	2.6	0.92	5.6
Well 7	ND	3.5	5.8	2.1	6.0	5.6	ND	3.0	0.83	6.1
Well 8	ND	7.0	8.9	3.3	9.3	5.1	ND	7.2	7.1	10
Well 9	ND	3.6	5.7	2.2	6.3	3.3	ND	3.5	0.93	6.6
Well 10	ND	2.3	3.2	0.94	3.0	1.9	ND	1.9	ND	3.9
Well 11	ND	6.0	11	5.2	10	7.6	ND	8.8	10	10
Well 12	ND	4.1	5.6	3.0	7.1	4.9	ND	3.1	0.87	8.1

Well 14 (out of service)										
Well 16	ND	2.5	2.8	1.2	3.8	2.6		1.2	0.68	4.6
Pickens	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Proposed Federal MCL 4

Proposed Hazard Index regulation

Regulated by the State Divison of Driking Water

Note: PFOS subatances that were Not Detedted (ND) for all samples are not reported in this table

RED TEXT Over the States Response Level

What is a Hazard Index? The Hazard Index is a long-established tool that EPA regularly uses, for example in the Superfund program, to un

EPA 533 in ng/L	Gen X	Sample Date 7/19/2023									
Sample Description	**HFPO-DA**	**PFBA**	**PFBS**	**PFHpA**	**PFHxA**	**PFHxS**	**PFNA**	**PFOA**	**PFOS**	**PFPeA**	**PFPeS**
Glenwood Plant Blend	ND	3.8	5.7	2.5	6.4	4.0	ND	3.5	2.4	6.7	1.2
Combined Wells 1, 5, 7 & 8	ND	3.5	6.3	2.3	6	4.5	ND	3.2	0.94	6.5	1.2
Well 8	ND	5.9	8	2.9	8.2	5.4	0.68	5.7	6.1	8.7	1.6

CVWD Glenwood PFOA Concentration Summary – April 2023

Date	Glenwood Well 8 GPM	Hours	PFOA, ng/L	Glenwood Well 10 GPM	Hours	PFOA, ng/L	Glenwood Well 12 GPM	Hours	PFOA, ng/L	Glenwood Well 14 GPM	Hours	PFOA, ng/L	Glenwood Well 16 GPM	Hours	PFOA, ng/L	Glenwood Booster Pump Discharge, GPM	Calculated PFOA in effluent, ng/L	Sampled PFOA in effluent, ng/L
1-Apr-23	166.93	24.00		42.68	24.00		119.29	24.00		175.00	24.00		98.00	24.00		622.08	7.24	
2-Apr-23	167.50	24.00		43.03	24.00		120.44	24.00		177.21	24.00		98.00	24.00		625.48	7.23	
3-Apr-23	166.30	24.00		43.07	24.00		121.35	24.00		179.13	24.00		98.00	24.00		629.63	7.15	
4-Apr-23	164.00	24.00		43.19	24.00		122.25	24.00		179.46	24.00		98.00	24.00		628.29	7.08	
5-Apr-23	163.70	24.00		43.10	24.00		122.57	24.00		180.83	24.00		98.00	24.00		630.73	7.05	
6-Apr-23	163.45	24.00		42.72	24.00		123.62	24.00		181.92	24.00		98.00	24.00		629.69	7.06	
7-Apr-23	163.43	24.00		42.65	24.00		124.80	24.00		183.29	24.00		98.00	24.00		633.77	7.02	
8-Apr-23	163.17	24.00		42.63	24.00		124.99	24.00		183.38	24.00		98.21	24.00		636.50	6.98	
9-Apr-23	162.90	24.00		42.51	24.00		126.36	24.00		182.71	24.00		98.08	24.00		633.60	7.00	
10-Apr-23	162.78	24.00		42.34	24.00		127.80	24.00		182.08	24.00		97.96	24.00		632.31	7.02	
11-Apr-23	162.52	24.00		42.33	24.00		128.58	24.00		183.50	24.00		98.08	24.00		638.40	6.95	
12-Apr-23	162.57	24.00		14.35	24.00		131.10	24.00		182.72	24.00		98.00	24.00		596.94	7.40	
13-Apr-23	162.93	24.00		29.74	24.00		50.39	24.00		185.33	24.00		98.17	24.00		535.94	7.98	
14-Apr-23	165.00	24.00		47.22	24.00		90.95	24.00		187.00	24.00		98.13	24.00		507.75	8.72	
15-Apr-23	165.00	24.00		47.23	24.00		148.10	24.00		187.63	24.00		97.96	24.00		496.21	9.15	
16-Apr-23	165.00	24.00		47.26	24.00		146.34	24.00		189.00	24.00		98.33	24.00		638.06	7.11	
17-Apr-23	170.20	24.00		47.33	24.00		144.95	24.00		189.33	24.00		98.25	24.00		678.60	6.86	
18-Apr-23	170.10	24.00		47.02	24.00		144.95	24.00		189.54	24.00		98.17	24.00		683.08	6.81	
19-Apr-23	170.83	24.00	23.00	46.80	24.00	0.85	145.20	24.00	2.00	190.00	24.00	1.50	98.33	24.00	1.30	579.00	8.07	7.10
20-Apr-23	170.60	24.00		46.49	24.00		145.95	24.00		190.00	24.00		99.75	24.00		593.71	7.87	
21-Apr-23	170.32	24.00		46.33	24.00		146.89	24.00		200.38	24.00		99.79	24.00		671.23	6.97	
22-Apr-23	170.38	24.00		45.96	24.00		147.01	24.00		199.50	24.00		99.96	24.00		692.94	6.76	
23-Apr-23	170.55	24.00		46.34	24.00		147.14	24.00		199.38	24.00		99.83	24.00		684.67	6.84	
24-Apr-23	171.12	24.00		46.23	24.00		148.26	24.00		199.50	24.00		48.96	24.00		646.21	7.17	
25-Apr-23	171.27	24.00		46.30	24.00		148.70	24.00		199.38	24.00		45.79	24.00		638.81	7.25	
26-Apr-23	171.07	24.00		45.39	24.00		149.21	24.00		199.58	24.00		106.04	24.00		707.10	6.66	
27-Apr-23	171.12	24.00		45.46	24.00		149.96	24.00		200.08	24.00		105.75	24.00		702.85	6.70	
28-Apr-23	171.27	24.00		46.05	24.00		150.63	24.00		200.71	0.00		105.00	24.00		694.00	6.36	
29-Apr-23	171.47	24.00		45.89	24.00		151.01	24.00		201.50	0.00		104.29	24.00		708.44	6.24	
30-Apr-23	171.65	24.00		45.84	24.00		152.07	24.00		202.58	0.00		104.29	24.00		693.25	6.39	

*Sampling date highlighted in blue.

** All cells in calculated columns are calculated based on same monthly sampling data

CVWD Glenwood PFOS Concentration Summary – April 2023

Date	Glenwood Well 8 GPM	Hours	PFOS, ng/L	Glenwood Well 10 GPM	Hours	PFOS, ng/L	Glenwood Well 12 GPM	Hours	PFOS, ng/L	Glenwood Well 14 GPM	Hours	PFOS, ng/L	Glenwood Well 16 GPM	Hours	PFOS, ng/L	Glenwood Booster Pump Discharge, GPM	Calculated PFOS in effluent, ng/L	Sampled PFOS in effluent, ng/L
1-Apr-23	166.93	24.00		42.68	24.00		119.29	24.00		175.00	24.00		98.00	24.00		622.08	5.88	
2-Apr-23	167.50	24.00		43.03	24.00		120.44	24.00		177.21	24.00		98.00	24.00		625.48	5.87	
3-Apr-23	166.30	24.00		43.07	24.00		121.35	24.00		179.13	24.00		98.00	24.00		629.63	5.79	
4-Apr-23	164.00	24.00		43.19	24.00		122.25	24.00		179.46	24.00		98.00	24.00		628.29	5.73	
5-Apr-23	163.70	24.00		43.10	24.00		122.57	24.00		180.83	24.00		98.00	24.00		630.73	5.70	
6-Apr-23	163.45	24.00		42.72	24.00		123.62	24.00		181.92	24.00		98.00	24.00		629.69	5.70	
7-Apr-23	163.43	24.00		42.65	24.00		124.80	24.00		183.29	24.00		98.00	24.00		633.77	5.66	
8-Apr-23	163.17	24.00		42.63	24.00		124.99	24.00		183.38	24.00		98.21	24.00		636.50	5.63	
9-Apr-23	162.90	24.00		42.51	24.00		126.36	24.00		182.71	24.00		98.08	24.00		633.60	5.65	
10-Apr-23	162.78	24.00		42.34	24.00		127.80	24.00		182.08	24.00		97.96	24.00		632.31	5.66	
11-Apr-23	162.52	24.00		42.33	24.00		128.58	24.00		183.50	24.00		98.08	24.00		638.40	5.60	
12-Apr-23	162.57	24.00		14.35	24.00		131.10	24.00		182.72	24.00		98.00	24.00		596.94	5.99	
13-Apr-23	162.93	24.00		29.74	24.00		50.39	24.00		185.33	24.00		98.17	24.00		535.94	6.58	
14-Apr-23	165.00	24.00		47.22	24.00		90.95	24.00		187.00	24.00		98.13	24.00		507.75	7.09	
15-Apr-23	165.00	24.00		47.23	24.00		148.10	24.00		187.63	24.00		97.96	24.00		496.21	7.33	
16-Apr-23	165.00	24.00		47.26	24.00		146.34	24.00		189.00	24.00		98.33	24.00		638.06	5.70	
17-Apr-23	170.20	24.00		47.33	24.00		144.95	24.00		189.33	24.00		98.25	24.00		678.60	5.52	
18-Apr-23	170.10	24.00		47.02	24.00		144.95	24.00		189.54	24.00		98.17	24.00		683.08	5.48	
19-Apr-23	170.83	24.00	21.00	46.80	24.00	0.00	145.20	24.00	0.72	190.00	24.00	0.00	98.33	24.00	0.69	579.00	6.49	6.30
20-Apr-23	170.60	24.00		46.49	24.00		145.95	24.00		190.00	24.00		99.75	24.00		593.71	6.33	
21-Apr-23	170.32	24.00		46.33	24.00		146.89	24.00		200.38	24.00		99.79	24.00		671.23	5.59	
22-Apr-23	170.38	24.00		45.96	24.00		147.01	24.00		199.50	24.00		99.96	24.00		692.94	5.42	
23-Apr-23	170.55	24.00		46.34	24.00		147.14	24.00		199.38	24.00		99.83	24.00		684.67	5.49	
24-Apr-23	171.12	24.00		46.23	24.00		148.26	24.00		199.50	24.00		48.96	24.00		646.21	5.78	
25-Apr-23	171.27	24.00		46.30	24.00		148.70	24.00		199.38	24.00		45.79	24.00		638.81	5.85	
26-Apr-23	171.07	24.00		45.39	24.00		149.21	24.00		199.58	24.00		106.04	24.00		707.10	5.34	
27-Apr-23	171.12	24.00		45.46	24.00		149.96	24.00		200.08	24.00		105.75	24.00		702.85	5.37	
28-Apr-23	171.27	24.00		46.05	24.00		150.63	24.00		200.71	0.00		105.00	24.00		694.00	5.44	
29-Apr-23	171.47	24.00		45.89	24.00		151.01	24.00		201.50	0.00		104.29	24.00		708.44	5.34	
30-Apr-23	171.65	24.00		45.84	24.00		152.07	24.00		202.58	0.00		104.29	24.00		693.25	5.46	
Average	167.30	24.00	21.00	43.45	24.00	0.00	133.36	24.00	0.72	188.03	21.60	0.00	96.10	24.00	0.69	636.31	5.82	6.30

*Sampling date highlighted in blue.

** All cells in calculated columns are calculated based on same monthly sampling data

CVWD Glenwood PFOA Concentration Summary – June 2023

Date	Glenwood Well 8 GPM	Hours	PFOA, ng/L	Glenwood Well 10 GPM	Hours	PFOA, ng/L	Glenwood Well 12 GPM	Hours	PFOA, ng/L	Glenwood Well 14 GPM	Hours	PFOA, ng/L	Glenwood Well 16 GPM	Hours	PFOA, ng/L	Glenwood Booster Pump Discharge, GPM	Hours	Calculated PFOA in effluent, ng/L	Sampled PFOA in effluent, ng/L	Glenwood Well 5 GPM	Hours	PFOA, ng/L	Glenwood Well 11 GPM	Hours	PFOA, ng/L	FMWD Briggs Flow, GPM	Hours	PFOA, ng/L	Calculated PFOA at Point of Use ng/L	Sampled PFOA at Point of Use
1-Jun-23	171.48	24.00		45.94	24.00		162.50	24.00		182.21	24.00		101.29	24.00		668.29	24.00	2.91		184.62	24		93.73	24		404.03	24		2.85	
2-Jun-23	171.65	24.00		45.67	24.00		163.28	24.00		180.79	24.00		101.25	24.00		685.44	24.00	2.85		139.29	24		94.63	24		283.29	24		3.16	
3-Jun-23	171.57	24.00		45.93	24.00		163.20	24.00		177.21	24.00		101.38	24.00		672.48	24.00	2.90		142.37	24		94.95	24		293.52	24		3.13	
4-Jun-23	171.67	24.00		45.91	24.00		163.19	24.00		177.38	24.00		100.75	24.00		686.85	24.00	2.84		138.86	24		94.23	24		337.73	24		3.02	
5-Jun-23	165.08	24.00		45.91	24.00		159.78	24.00		178.08	24.00		100.92	24.00		665.94	24.00	2.84		135.38	24		95.50	24		359.45	24		2.96	
6-Jun-23	158.67	24.00		45.80	24.00		154.99	24.00		186.71	24.00		100.63	24.00		670.85	24.00	2.73		134.47	24		96.52	24		347.07	24		3.00	
7-Jun-23	158.13	24.00		46.03	24.00		155.54	24.00		192.67	24.00		100.42	24.00		680.38	24.00	2.69		134.47	24		96.52	24		347.07	24		3.01	
8-Jun-23	158.13	24.00		46.05	24.00		156.04	24.00		192.13	24.00		100.54	24.00		674.15	24.00	2.72		189.89	24		94.77	24		315.88	24		3.05	
9-Jun-23	157.88	24.00		46.12	24.00		156.50	24.00		192.04	24.00		100.38	24.00		665.50	24.00	2.75		200.71	24		94.28	24		325.10	24		3.02	
10-Jun-23	157.87	24.00		46.20	24.00		155.68	24.00		191.83	24.00		100.33	24.00		680.54	24.00	2.69		196.84	24		95.42	24		314.36	24		3.06	
11-Jun-23	159.37	24.00		45.91	24.00		156.13	24.00		191.96	24.00		100.21	24.00		686.46	24.00	2.68		205.18	24		95.85	24		315.50	24		3.06	
12-Jun-23	164.02	24.00		45.92	24.00		155.84	24.00		191.46	24.00		100.67	24.00		670.65	24.00	2.79		202.92	24		94.73	24		304.26	24		3.07	
13-Jun-23	163.92	24.00		45.95	24.00		155.66	24.00		191.54	24.00		100.71	24.00		676.35	24.00	2.77		205.09	24		95.37	24		290.62	24		3.11	
14-Jun-23	163.27	24.00		46.09	24.00		155.25	24.00		191.46	24.00		100.83	24.00		672.96	24.00	2.77		204.60	24		95.43	24		277.61	24		3.14	
15-Jun-23	163.08	24.00		46.03	24.00		155.33	24.00		191.21	24.00		101.17	24.00		688.38	24.00	2.71		203.61	24		95.42	24		328.88	24		3.03	
16-Jun-23	162.47	24.00		45.90	24.00		155.43	24.00		190.79	24.00		101.67	24.00		687.08	24.00	2.71		203.25	24		94.95	24		348.21	24		2.98	
17-Jun-23	162.52	24.00		46.03	24.00		155.76	24.00		190.88	24.00		101.96	24.00		682.48	24.00	2.73		204.90	24		95.40	24		369.93	24		2.93	
18-Jun-23	162.15	24.00		45.98	24.00		157.55	24.00		191.58	24.00		101.83	24.00		685.54	24.00	2.72		202.94	24		94.72	24		370.18	24		2.93	
19-Jun-23	161.92	24.00		45.89	24.00		157.34	24.00		191.08	24.00		101.08	24.00		683.35	24.00	2.72		204.15	24		94.90	24		368.67	24		2.93	
20-Jun-23	162.93	24.00		45.96	24.00		157.67	24.00		190.33	24.00		100.71	24.00		678.60	24.00	2.76		207.41	24		95.02	24		375.99	24		2.91	
21-Jun-23	170.40	24.00		45.90	24.00		157.98	24.00		192.63	24.00		100.88	24.00		698.50	24.00	2.76		254.23	24		95.15	24		525.53	24		2.64	
22-Jun-23	174.13	24.00		45.93	24.00		157.67	24.00		193.67	24.00		100.71	24.00		686.52	24.00	2.84		192.09	24		95.35	24		496.86	24		2.68	
23-Jun-23	174.15	24.00		45.92	24.00		157.89	24.00		193.46	24.00		100.42	24.00		707.77	24.00	2.76		158.94	24		95.73	24		596.01	24		2.53	
24-Jun-23	174.15	24.00		45.98	24.00		158.07	24.00		193.08	24.00		100.67	24.00		698.52	24.00	2.79		156.18	24		94.88	24		479.43	24		2.73	
25-Jun-23	174.23	24.00		45.82	24.00		157.79	24.00		192.88	24.00		100.58	24.00		711.91	24.00	2.74		152.81	24		95.30	24		472.74	24		2.75	
26-Jun-23	170.28	24.00		45.93	24.00		157.93	24.00		195.71	24.00		100.38	24.00		694.42	24.00	2.77		155.66	24		93.63	24		434.98	24		2.81	
27-Jun-23	174.12	24.00		45.95	24.00		158.19	24.00		191.00	24.00		100.33	24.00		652.29	24.00	2.99		198.89	24		94.92	24		282.53	24		3.12	
28-Jun-23	174.88	24.00	7.20	46.15	24.00	1.90	158.52	24.00	3.10	0.00	0.00	0.00	100.63	24.00	1.20	504.75	24.00	3.88	3.80	158.81	24	2.6	95.92	24	8.8	305.01	24	0.00	2.98	3.1
29-Jun-23	174.92	24.00		46.20	24.00		158.20	24.00		0.00	0.00		101.00	24.00		509.31	24.00	3.85		158.14	24		95.83	24		299.08	24		3.00	
30-Jun-23	175.07	24.00		45.97	24.00		158.03	24.00		0.00	0.00		100.88	24.00		504.06	24.00	3.89		162.00	24		97.05	24		325.85	24		2.93	

*Sampling date highlighted in blue.

** All cells in calculated columns are calculated based on same monthly sampling data

CVWD Glenwood PFOS Concentration Summary – June 2023

Date	Glenwood Well 8 GPM	Hours	PFOS, ng/L	Glenwood Well 10 GPM	Hours	PFOS, ng/L	Glenwood Well 12 GPM	Hours	PFOS, ng/L	Glenwood Well 14 GPM	Hours	PFOS, ng/L	Glenwood Well 16 GPM	Hours	PFOS, ng/L	Glenwood Booster Pump Discharge, GPM	Hours	Calculated PFOS in effluent, ng/L	Sampled PFOS in effluent, ng/L	Glenwood Well 5 GPM	Hours	PFOS, ng/L	Glenwood Well 11 GPM	Hours	PFOS, ng/L	FMWD Briggs Flow, GPM	Hours	PFOS, ng/L	Calculated PFOA at Point of Use ng/L	Sampled PFOA at Point of Use
1-Jun-23	171.48	24.00		45.94	24.00		162.50	24.00		182.21	24.00		101.29	24.00		668.29	24.00	2.14		184.62	24		93.73	24		404.03	24		2.40	
2-Jun-23	171.65	24.00		45.67	24.00		163.28	24.00		180.79	24.00		101.25	24.00		685.44	24.00	2.09		139.29	24		94.63	24		283.29	24		2.72	
3-Jun-23	171.57	24.00		45.93	24.00		163.20	24.00		177.21	24.00		101.38	24.00		672.48	24.00	2.13		142.37	24		94.95	24		293.52	24		2.69	
4-Jun-23	171.67	24.00		45.91	24.00		163.19	24.00		177.38	24.00		100.75	24.00		686.85	24.00	2.08		138.86	24		94.23	24		337.73	24		2.60	
5-Jun-23	165.08	24.00		45.91	24.00		159.78	24.00		178.08	24.00		100.92	24.00		665.94	24.00	2.07		135.38	24		95.50	24		359.45	24		2.56	
6-Jun-23	158.67	24.00		45.80	24.00		154.99	24.00		186.71	24.00		100.63	24.00		670.85	24.00	1.98		134.47	24		96.52	24		347.07	24		2.59	
7-Jun-23	158.13	24.00		46.03	24.00		155.54	24.00		192.67	24.00		100.42	24.00		680.38	24.00	1.95		134.47	24		96.52	24		347.07	24		2.60	
8-Jun-23	158.13	24.00		46.05	24.00		156.04	24.00		192.13	24.00		100.54	24.00		674.15	24.00	1.97		189.89	24		94.77	24		315.88	24		2.57	
9-Jun-23	157.88	24.00		46.12	24.00		156.50	24.00		192.04	24.00		100.38	24.00		665.50	24.00	1.99		200.71	24		94.28	24		325.10	24		2.53	
10-Jun-23	157.87	24.00		46.20	24.00		155.68	24.00		191.83	24.00		100.33	24.00		680.54	24.00	1.95		196.84	24		95.42	24		314.36	24		2.57	
11-Jun-23	159.37	24.00		45.91	24.00		156.13	24.00		191.96	24.00		100.21	24.00		686.46	24.00	1.95		205.18	24		95.85	24		315.50	24		2.57	
12-Jun-23	164.02	24.00		45.92	24.00		155.84	24.00		191.46	24.00		100.67	24.00		670.65	24.00	2.04		202.92	24		94.73	24		304.26	24		2.58	
13-Jun-23	163.92	24.00		45.95	24.00		155.66	24.00		191.54	24.00		100.71	24.00		676.35	24.00	2.02		205.09	24		95.37	24		290.62	24		2.61	
14-Jun-23	163.27	24.00		46.09	24.00		155.25	24.00		191.46	24.00		100.83	24.00		672.96	24.00	2.03		204.60	24		95.43	24		277.61	24		2.64	
15-Jun-23	163.08	24.00		46.03	24.00		155.33	24.00		191.21	24.00		101.17	24.00		688.38	24.00	1.98		203.61	24		95.42	24		328.88	24		2.54	
16-Jun-23	162.47	24.00		45.90	24.00		155.43	24.00		190.79	24.00		101.67	24.00		687.08	24.00	1.98		203.25	24		94.95	24		348.21	24		2.50	
17-Jun-23	162.52	24.00		46.03	24.00		155.76	24.00		190.88	24.00		101.96	24.00		682.48	24.00	1.99		204.90	24		95.40	24		369.93	24		2.46	
18-Jun-23	162.15	24.00		45.98	24.00		157.55	24.00		191.58	24.00		101.83	24.00		685.54	24.00	1.98		202.94	24		94.72	24		370.18	24		2.46	
19-Jun-23	161.92	24.00		45.89	24.00		157.34	24.00		191.08	24.00		101.08	24.00		683.35	24.00	1.98		204.15	24		94.90	24		368.67	24		2.46	
20-Jun-23	162.93	24.00		45.96	24.00		157.67	24.00		190.33	24.00		100.71	24.00		678.60	24.00	2.01		207.41	24		95.02	24		375.99	24		2.44	
21-Jun-23	170.40	24.00		45.90	24.00		157.98	24.00		192.63	24.00		100.88	24.00		698.50	24.00	2.03		254.23	24		95.15	24		525.53	24		2.17	
22-Jun-23	174.13	24.00		45.93	24.00		157.67	24.00		193.67	24.00		100.71	24.00		686.52	24.00	2.10		192.09	24		95.35	24		496.86	24		2.26	
23-Jun-23	174.15	24.00		45.92	24.00		157.89	24.00		193.46	24.00		100.42	24.00		707.77	24.00	2.04		158.94	24		95.73	24		596.01	24		2.16	
24-Jun-23	174.15	24.00		45.98	24.00		158.07	24.00		193.08	24.00		100.67	24.00		698.52	24.00	2.06		156.18	24		94.88	24		479.43	24		2.33	
25-Jun-23	174.23	24.00		45.82	24.00		157.79	24.00		192.88	24.00		100.58	24.00		711.91	24.00	2.03		152.81	24		95.30	24		472.74	24		2.35	
26-Jun-23	170.28	24.00		45.93	24.00		157.93	24.00		195.71	24.00		100.38	24.00		694.42	24.00	2.04		155.66	24		93.63	24		434.98	24		2.39	
27-Jun-23	174.12	24.00		45.95	24.00		158.19	24.00		191.00	24.00		100.33	24.00		652.29	24.00	2.21		198.89	24		94.92	24		282.53	24		2.62	
28-Jun-23	174.88	24.00	7.10	46.15	24.00	0.00	158.52	24.00	0.87	0.00	0.00	0.00	100.63	24.00	0.68	504.75	24.00	2.87	3.20	158.81	24	0.92	95.92	24	10	305.01	24	0	2.56	2
29-Jun-23	174.92	24.00		46.20	24.00		158.20	24.00		0.00	0.00		101.00	24.00		509.31	24.00	2.84		158.14	24		95.83	24		299.08	24		2.57	
30-Jun-23	175.07	24.00		45.97	24.00		158.03	24.00		0.00	0.00		100.88	24.00		504.06	24.00	2.87		162.00	24		97.05	24		325.85	24		2.51	

*Sampling date highlighted in blue.

** All cells in calculated columns are calculated based on same monthly sampling data

CVWD Mills PFOA Concentration Summary – April 2023

Date	Well 1 GPM	Hours	PFOA, ng/L	Mills Well 5 GPM	Hours	PFOA, ng/L	Well 7 GPM	Hours	PFOA, ng/L	Well 9 GPM	Hours	PFOA, ng/L	Mills Booster Pump Discharge, GPM	Hours	Calculated PFOA in effluent (forebay), ng/L	Sampled PFOA in effluent (forebay), ng/L
1-Apr-23	92.56	12.00		157.30	12.00		232.50	12.00		0.00	0.00		459.48	12.00	3.94	
2-Apr-23	93.35	12.00		154.10	12.00		233.67	12.00		0.00	0.00		451.46	12.00	4.02	
3-Apr-23	92.98	12.00		154.97	12.00		233.97	12.00		0.00	0.00		452.15	12.00	4.01	
4-Apr-23	93.48	12.00		148.69	12.00		234.77	12.00		0.00	0.00		448.48	12.00	4.03	
5-Apr-23	93.61	14.00		142.77	14.00		234.31	14.00		0.00	0.00		443.73	14.00	4.04	
6-Apr-23	94.23	10.00		145.93	10.00		235.52	10.00		0.00	0.00		442.20	10.00	4.09	
7-Apr-23	93.50	16.50		145.25	16.50		235.39	16.50		0.00	0.00		446.63	17.00	3.91	
8-Apr-23	93.17	24.00		147.50	24.00		232.77	24.00		0.00	0.00		447.79	24.00	4.01	
9-Apr-23	93.38	24.00		147.39	24.00		231.47	24.00		0.00	0.00		442.98	24.00	4.05	
10-Apr-23	93.44	24.00		144.98	24.00		230.95	24.00		0.00	0.00		440.11	24.00	4.06	
11-Apr-23	93.08	24.00		144.63	24.00		230.47	24.00		0.00	0.00		436.22	24.00	4.09	
12-Apr-23	92.89	11.50		145.43	11.50		230.26	11.50		0.00	0.00		441.20	11.50	4.04	
13-Apr-23	97.00	0.50		161.20	0.50		238.40	0.50		0.00	0.00		390.50	0.50	4.80	
14-Apr-23	94.01	24.00		150.91	24.00		235.65	24.00		0.00	0.00		450.89	24.00	4.03	
15-Apr-23	93.93	24.00		147.06	24.00		232.60	24.00		0.00	0.00		444.47	24.00	4.05	
16-Apr-23	93.83	24.00		152.32	24.00		231.62	24.00		0.00	0.00		445.84	24.00	4.06	
17-Apr-23	93.83	24.00		147.25	24.00		231.03	24.00		0.00	0.00		441.03	24.00	4.07	
18-Apr-23	93.57	24.00		147.47	24.00		230.68	24.00		0.00	0.00		440.23	24.00	4.07	
19-Apr-23	93.73	20.50	8.80	146.11	20.50	2.20	230.75	20.50	2.80	0.00	0.00		438.93	20.50	4.08	4.10
20-Apr-23	94.83	12.00		150.96	12.00		235.80	12.00		0.00	0.00		449.40	12.00	4.07	
21-Apr-23	94.85	12.00		144.08	12.00		237.03	12.00		0.00	0.00		445.50	12.00	4.07	
22-Apr-23	94.79	16.50		149.30	16.00		237.26	16.50		0.00	0.00		450.83	16.50	4.03	
23-Apr-23	94.05	24.00		144.98	24.00		233.82	24.00		0.00	0.00		443.67	24.00	4.06	
24-Apr-23	94.43	24.00		144.30	24.00		232.30	24.00		0.00	0.00		440.11	24.00	4.09	
25-Apr-23	94.28	22.50		151.03	22.50		231.63	22.50		0.00	0.00		444.40	22.50	4.07	
26-Apr-23	94.98	15.00		145.04	15.00		236.51	15.00		0.00	0.00		444.95	15.00	4.08	
27-Apr-23	94.72	15.00		151.67	15.00		237.09	15.00		0.00	0.00		449.53	15.00	4.07	
28-Apr-23	95.55	15.00		148.07	15.00		237.25	15.00		0.00	0.00		452.28	15.00	4.05	
29-Apr-23	95.38	16.50		150.92	16.50		237.45	16.50		0.00	0.00		448.00	16.50	4.10	
30-Apr-23	94.99	24.00		148.55	24.00		234.07	24.00		0.00	0.00		444.58	24.00	4.09	

*Sampling date highlighted in blue.

** All cells in calculated columns are calculated based on same monthly sampling data

CVWD Mills PFOS Concentration Summary – April 2023

Date	Well 1 GPM	Hours	PFOS, ng/L	Mills Well 5 GPM	Hours	PFOS, ng/L	Well 7 GPM	Hours	PFOS, ng/L	Well 9 GPM	Hours	PFOS, ng/L	Mills Booster Pump Discharge, GPM	Hours	Calculated PFOS in effluent (forebay), ng/L	Sampled PFOS in effluent (forebay), ng/L
1-Apr-23	92.56	12.00		157.30	12.00		232.50	12.00		0.00	0.00		459.48	12.00	1.20	
2-Apr-23	93.35	12.00		154.10	12.00		233.67	12.00		0.00	0.00		451.46	12.00	1.22	
3-Apr-23	92.98	12.00		154.97	12.00		233.97	12.00		0.00	0.00		452.15	12.00	1.22	
4-Apr-23	93.48	12.00		148.69	12.00		234.77	12.00		0.00	0.00		448.48	12.00	1.22	
5-Apr-23	93.61	14.00		142.77	14.00		234.31	14.00		0.00	0.00		443.73	14.00	1.22	
6-Apr-23	94.23	10.00		145.93	10.00		235.52	10.00		0.00	0.00		442.20	10.00	1.24	
7-Apr-23	93.50	16.50		145.25	16.50		235.39	16.50		0.00	0.00		446.63	17.00	1.19	
8-Apr-23	93.17	24.00		147.50	24.00		232.77	24.00		0.00	0.00		447.79	24.00	1.22	
9-Apr-23	93.38	24.00		147.39	24.00		231.47	24.00		0.00	0.00		442.98	24.00	1.23	
10-Apr-23	93.44	24.00		144.98	24.00		230.95	24.00		0.00	0.00		440.11	24.00	1.23	
11-Apr-23	93.08	24.00		144.63	24.00		230.47	24.00		0.00	0.00		436.22	24.00	1.24	
12-Apr-23	92.89	11.50		145.43	11.50		230.26	11.50		0.00	0.00		441.20	11.50	1.22	
13-Apr-23	97.00	0.50		161.20	0.50		238.40	0.50		0.00	0.00		390.50	0.50	1.46	
14-Apr-23	94.01	24.00		150.91	24.00		235.65	24.00		0.00	0.00		450.89	24.00	1.22	
15-Apr-23	93.93	24.00		147.06	24.00		232.60	24.00		0.00	0.00		444.47	24.00	1.23	
16-Apr-23	93.83	24.00		152.32	24.00		231.62	24.00		0.00	0.00		445.84	24.00	1.23	
17-Apr-23	93.83	24.00		147.25	24.00		231.03	24.00		0.00	0.00		441.03	24.00	1.23	
18-Apr-23	93.57	24.00		147.47	24.00		230.68	24.00		0.00	0.00		440.23	24.00	1.23	
19-Apr-23	93.73	20.50	2.00	146.11	20.50	0.93	230.75	20.50	0.95	0.00	0.00		438.93	20.50	1.24	1.10
20-Apr-23	94.83	12.00		150.96	12.00		235.80	12.00		0.00	0.00		449.40	12.00	1.23	
21-Apr-23	94.85	12.00		144.08	12.00		237.03	12.00		0.00	0.00		445.50	12.00	1.23	
22-Apr-23	94.79	16.50		149.30	16.00		237.26	16.50		0.00	0.00		450.83	16.50	1.22	
23-Apr-23	94.05	24.00		144.98	24.00		233.82	24.00		0.00	0.00		443.67	24.00	1.23	
24-Apr-23	94.43	24.00		144.30	24.00		232.30	24.00		0.00	0.00		440.11	24.00	1.24	
25-Apr-23	94.28	22.50		151.03	22.50		231.63	22.50		0.00	0.00		444.40	22.50	1.24	
26-Apr-23	94.98	15.00		145.04	15.00		236.51	15.00		0.00	0.00		444.95	15.00	1.24	
27-Apr-23	94.72	15.00		151.67	15.00		237.09	15.00		0.00	0.00		449.53	15.00	1.24	
28-Apr-23	95.55	15.00		148.07	15.00		237.25	15.00		0.00	0.00		452.28	15.00	1.23	
29-Apr-23	95.38	16.50		150.92	16.50		237.45	16.50		0.00	0.00		448.00	16.50	1.24	
30-Apr-23	94.99	24.00		148.55	24.00		234.07	24.00		0.00	0.00		444.58	24.00	1.24	

*Sampling date highlighted in blue.

** All cells in calculated columns are calculated based on same monthly sampling data

CVWD Mills PFOA Concentration Summary – June 2023

Date	Well 1 GPM	Hours	PFOA, ng/L	Mills Well 5 GPM	Hours	PFOA, ng/L	Well 7 GPM	Hours	PFOA, ng/L	Well 9 GPM	Hours	PFOA, ng/L	Mills Booster Pump Discharge, GPM	Hours	Calculated PFOA in effluent (forebay), ng/L	Paschall Discharge, GPM	Hours	Sampled PFOA in effluent (Paschall), ng/L	Williams Discharge, GPM	Hours	Sampled PFOA in effluent (Williams), ng/L	Calculated PFOA in effluent (Fairmount and Briggs), ng/L	Sampled PFOA in effluent (Fairmount and Briggs), ng/L
1-Jun-23	95.94	17.00		144.72	17.00		239.39	17.00		0.00	0.00		453.67	17.50	3.84	504.33	17.50		0.00	0.00		1.82	
2-Jun-23	95.48	24.00		148.93	24.00		234.93	24.00		0.00	0.00		445.61	24.00	4.01	500.86	24.00		1291.16	5.50		2.15	
3-Jun-23	95.33	24.00		145.95	24.00		233.67	24.00		0.00	0.00		438.85	24.00	4.05	505.60	24.00		1469.25	2.00		2.01	
4-Jun-23	95.31	24.00		147.71	24.00		232.87	24.00		0.00	0.00		444.13	24.00	4.00	507.79	24.00		0.00	0.00		1.87	
5-Jun-23	95.06	24.00		152.67	24.00		232.67	24.00		0.00	0.00		444.24	24.00	4.03	507.34	24.00		0.00	0.00		1.88	
6-Jun-23	94.82	24.00		155.05	24.00		232.47	24.00		0.00	0.00		444.93	24.00	4.03	503.77	24.00		1499.10	3.50		2.10	
7-Jun-23	94.79	22.50		147.10	22.50		232.21	22.50		0.00	0.00		438.29	22.50	4.04	507.98	22.50		0.00	0.00		1.87	
8-Jun-23	95.37	15.50		149.84	15.50		237.75	15.50		0.00	0.00		448.87	15.50	4.01	499.88	15.50		1526.93	6.00		2.32	
9-Jun-23	95.80	14.00		145.60	14.00		239.31	14.00		0.00	0.00		446.48	14.00	4.02	501.04	14.50		1568.20	6.50		2.35	
10-Jun-23	95.98	14.00		156.65	14.00		239.29	14.00		0.00	0.00		456.30	14.00	4.00	482.66	14.50		1540.77	10.50		2.51	
11-Jun-23	95.82	14.00		144.49	14.00		239.60	14.00		0.00	0.00		445.30	14.00	4.03	490.67	14.50		1556.32	3.00		2.17	
12-Jun-23	95.95	14.00		144.76	14.00		239.86	14.00		0.00	0.00		446.68	14.00	4.02	499.99	14.50		1320.57	6.50		2.30	
13-Jun-23	96.18	14.00		142.63	14.00		240.46	14.00		0.00	0.00		446.29	14.00	4.02	502.06	14.50		1544.09	6.50		2.34	
14-Jun-23	96.18	14.00		143.46	14.00		240.29	14.00		0.00	0.00		444.91	14.00	4.04	500.81	14.50		1545.60	6.50		2.35	
15-Jun-23	96.43	14.00		145.55	14.00		240.29	14.00		0.00	0.00		448.64	14.00	4.02	502.25	14.00		1535.53	10.00		2.49	
16-Jun-23	96.18	14.00		145.83	14.00		240.57	14.00		0.00	0.00		451.79	14.00	3.99	506.51	14.00		1539.89	5.50		2.31	
17-Jun-23	96.34	14.00		144.02	14.00		240.89	14.00		0.00	0.00		446.88	14.00	4.03	506.75	14.00		1522.49	6.50		2.36	
18-Jun-23	95.95	14.00		145.00	14.00		240.49	14.00		0.00	0.00		445.11	14.00	4.04	502.77	14.50		1545.43	7.50		2.39	
19-Jun-23	96.18	14.00		145.14	14.00		241.00	14.00		0.00	0.00		447.66	14.00	4.03	508.00	14.00		1547.02	5.50		2.32	
20-Jun-23	96.16	14.00		139.89	14.00		240.77	14.00		79.95	8.50		489.30	14.00	4.00	494.07	14.50		1517.41	12.00		2.55	
21-Jun-23	97.08	6.00		138.99	6.00		242.73	6.00		95.57	6.00		526.17	6.00	4.05	504.80	6.00		1561.91	10.50		2.74	
22-Jun-23	96.24	17.50		133.42	17.50		240.62	17.50		96.93	17.50		525.33	17.50	4.02	504.45	17.50		852.56	12.50		2.40	
23-Jun-23	95.97	24.00		130.73	24.00		236.07	24.00		94.60	24.00		515.63	24.00	4.03	509.23	24.00		0.00	0.00		2.03	
24-Jun-23	95.78	24.00		132.17	24.00		234.37	24.00		93.68	24.00		513.79	24.00	4.04	502.27	24.00		1481.38	7.00		2.33	
25-Jun-23	95.72	24.00		136.34	24.00		233.82	24.00		91.52	24.00		517.00	24.00	4.01	509.51	24.00		0.00	0.00		2.02	
26-Jun-23	95.62	23.00		139.01	22.50		237.43	23.00		89.92	23.00		521.42	23.00	3.99	508.38	24.00		1472.51	2.00		2.09	
27-Jun-23	95.95	16.00		135.97	16.00		237.40	16.00		98.36	16.00		526.45	16.00	4.01	506.39	16.50		1970.02	8.00		2.49	
28-Jun-23	95.38	24.00	7.30	132.11	24.00	2.60	235.18	24.00	3.00	103.38	24.00	3.50	519.18	24.00	4.06	506.05	24.00	0.00	1477.09	2.50	3.00	2.18	2.50
29-Jun-23	95.94	24.00		132.09	24.00		233.15	24.00		102.87	24.00		511.16	24.00	4.11	506.97	24.00		1508.43	3.50		2.23	
30-Jun-23	95.58	24.00		130.00	24.00		232.57	24.00		99.15	24.00		513.68	24.00	4.05	504.27	24.00		1479.51	3.50		2.21	

*Sampling date highlighted in blue.

** All cells in calculated columns are calculated based on same monthly sampling data

CVWD Mills PFOS Concentration Summary – June 2023

Date	Well 1 GPM	Hours	PFOS, ng/L	Mills Well 5 GPM	Hours	PFOS, ng/L	Well 7 GPM	Hours	PFOS, ng/L	Well 9 GPM	Hours	PFOS, ng/L	Mills Booster Pump Discharge, GPM	Hours	Calculated PFOS in effluent (forebay), ng/L	Paschall Discharge, GPM	Hours	Sampled PFOS in effluent (Paschall), ng/L	Williams Discharge, GPM	Hours	Sampled PFOS in effluent (Williams), ng/L	Sampled PFOS in effluent (Fairmount and Briggs), ng/L	Sampled PFOS in effluent (Fairmount and Briggs), ng/L
1-Jun-23	95.94	17.00		144.72	17.00		239.39	17.00		0.00	0.00		453.67	17.50	1.08	504.33	17.50		0.00	0.00		0.51	
2-Jun-23	95.48	24.00		148.93	24.00		234.93	24.00		0.00	0.00		445.61	24.00	1.13	500.86	24.00		1291.16	5.50		0.86	
3-Jun-23	95.33	24.00		145.95	24.00		233.67	24.00		0.00	0.00		438.85	24.00	1.14	505.60	24.00		1469.25	2.00		0.69	
4-Jun-23	95.31	24.00		147.71	24.00		232.87	24.00		0.00	0.00		444.13	24.00	1.13	507.79	24.00		0.00	0.00		0.53	
5-Jun-23	95.06	24.00		152.67	24.00		232.67	24.00		0.00	0.00		444.24	24.00	1.14	507.34	24.00		0.00	0.00		0.53	
6-Jun-23	94.82	24.00		155.05	24.00		232.47	24.00		0.00	0.00		444.93	24.00	1.14	503.77	24.00		1499.10	3.50		0.79	
7-Jun-23	94.79	22.50		147.10	22.50		232.21	22.50		0.00	0.00		438.29	22.50	1.14	507.98	22.50		0.00	0.00		0.53	
8-Jun-23	95.37	15.50		149.84	15.50		237.75	15.50		0.00	0.00		448.87	15.50	1.13	499.88	15.50		1526.93	6.00		1.06	
9-Jun-23	95.80	14.00		145.60	14.00		239.31	14.00		0.00	0.00		446.48	14.00	1.13	501.04	14.50		1568.20	6.50		1.12	
10-Jun-23	95.98	14.00		156.65	14.00		239.29	14.00		0.00	0.00		456.30	14.00	1.13	482.66	14.50		1540.77	10.50		1.28	
11-Jun-23	95.82	14.00		144.49	14.00		239.60	14.00		0.00	0.00		445.30	14.00	1.13	490.67	14.50		1556.32	3.00		0.88	
12-Jun-23	95.95	14.00		144.76	14.00		239.86	14.00		0.00	0.00		446.68	14.00	1.13	499.99	14.50		1320.57	6.50		1.06	
13-Jun-23	96.18	14.00		142.63	14.00		240.46	14.00		0.00	0.00		446.29	14.00	1.13	502.06	14.50		1544.09	6.50		1.11	
14-Jun-23	96.18	14.00		143.46	14.00		240.29	14.00		0.00	0.00		444.91	14.00	1.13	500.81	14.50		1545.60	6.50		1.11	
15-Jun-23	96.43	14.00		145.55	14.00		240.29	14.00		0.00	0.00		448.64	14.00	1.13	502.25	14.00		1535.53	10.00		1.27	
16-Jun-23	96.18	14.00		145.83	14.00		240.57	14.00		0.00	0.00		451.79	14.00	1.12	506.51	14.00		1539.89	5.50		1.06	
17-Jun-23	96.34	14.00		144.02	14.00		240.89	14.00		0.00	0.00		446.88	14.00	1.13	506.75	14.00		1522.49	6.50		1.11	
18-Jun-23	95.95	14.00		145.00	14.00		240.49	14.00		0.00	0.00		445.11	14.00	1.14	502.77	14.50		1545.43	7.50		1.16	
19-Jun-23	96.18	14.00		145.14	14.00		241.00	14.00		0.00	0.00		447.66	14.00	1.13	508.00	14.00		1547.02	5.50		1.06	
20-Jun-23	96.16	14.00		139.89	14.00		240.77	14.00		79.95	8.50		489.30	14.00	1.12	494.07	14.50		1517.41	12.00		1.31	
21-Jun-23	97.08	6.00		138.99	6.00		242.73	6.00		95.57	6.00		526.17	6.00	1.13	504.80	6.00		1561.91	10.50		1.54	
22-Jun-23	96.24	17.50		133.42	17.50		240.62	17.50		96.93	17.50		525.33	17.50	1.12	504.45	17.50		852.56	12.50		1.06	
23-Jun-23	95.97	24.00		130.73	24.00		236.07	24.00		94.60	24.00		515.63	24.00	1.12	509.23	24.00		0.00	0.00		0.56	
24-Jun-23	95.78	24.00		132.17	24.00		234.37	24.00		93.68	24.00		513.79	24.00	1.12	502.27	24.00		1481.38	7.00		0.96	
25-Jun-23	95.72	24.00		136.34	24.00		233.82	24.00		91.52	24.00		517.00	24.00	1.12	509.51	24.00		0.00	0.00		0.56	
26-Jun-23	95.62	23.00		139.01	22.50		237.43	23.00		89.92	23.00		521.42	23.00	1.11	508.38	24.00		1472.51	2.00		0.70	
27-Jun-23	95.95	16.00		135.97	16.00		237.40	16.00		98.36	16.00		526.45	16.00	1.11	506.39	16.50		1970.02	8.00		1.21	
28-Jun-23	95.38	24.00	1.80	132.11	24.00	0.92	235.18	24.00	0.83	103.38	24.00	0.93	519.18	24.00	1.13	506.05	24.00	0.00	1477.09	2.50	1.90	0.74	1.20
29-Jun-23	95.94	24.00		132.09	24.00		233.15	24.00		102.87	24.00		511.16	24.00	1.14	506.97	24.00		1508.43	3.50		0.81	
30-Jun-23	95.58	24.00		130.00	24.00		232.57	24.00		99.15	24.00		513.68	24.00	1.12	504.27	24.00		1479.51	3.50		0.80	

*Sampling date highlighted in blue.

** All cells in calculated columns are calculated based on same monthly sampling data

CRESCENTA VALLEY WATER DISTRICT
STAFF REPORT

Information Item No. 4
September 8, 2023

To: Engineering and Operations Committee

From: Kellen J. Boyce, Systems & Operations Manager

Subject: **Electrical Vehicle Options & Charging Stations**

INFORMATION ITEM:

Electrical Vehicle Charging Stations – Discussion on the District's progress towards fleet electrification.

BACKGROUND:

In early 2023, the California Air Resources Control Board released guidance on the electrification of California fleets in a move to achieve zero emission goals set by the governor with the *"Clean Heavy-Duty Vehicle Replacement Program PA2022-01"*. In order to remain in compliance, CVWD needs to start implementing our existing fleet to electric, alternative, or hybrid fueled vehicles to meet the 2035 deadline. Through this investigation it has been determined the need to invest in Electrical Vehicle (EV) charging stations prior to investing in EVs. With the EV charging stations in place, CVWD will be in a position to implement an EV purchasing program when our best opportunity presents or when additional grant funding becomes available.

DISCUSSION:

Staff began reaching out to various local electrical companies to achieve this goal. Prior to purchasing any EVs, CVWD must construct several new charging stations to power those vehicles.

EV Charging Stations:

- Met with Royal Industrial Wholesales for investigation and vendor options.
- The Team consists of CVWD, Royal Industrial & Energy Solutions Group, Espen Technology Group, and LMS Electric.
- The EV Team has held multiple meetings in attempting to determine legislative order and our options moving forward.
- We have completed site walks & investigation, and bids should be submitted by September 11, 2023.
- This proposal will include time, labor, and materials for one (1) dual charging station at Glenwood Plant and one (1) dual station at CVWD main office.
- The Team has also been reaching out to other utilities locally and throughout California for options and opportunities.

Electric Vehicle options:

- We have been looking for startup companies to collaborate with and larger corporations lie GM and Ford.
- EVs will come after EV Charging has been installed and legislation has been determined.

To accomplish this, we will be using our System & Operations SCADA / Electrical Team to lead and oversee the construction and installation of the charging station with engineering support for updating as-builts and generating drawings.

Preliminary Schedule:

Engineering & Operations Meeting	- September 8, 2023
Receive and review proposal	- September 15, 2023

Prepared by:

Kellen J. Boyce
Systems and Operations Manager

Submitted by:

Brook Yared, M.S., P.E.
Interim Director of Engineering & Operations

Attachments: None

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CRESCENTA VALLEY WATER DISTRICT
STAFF REPORT

Information Item No. 5

To: Engineering Committee — September 8, 2023

From: Brook Yared, M.S., P.E. – Director of Engineering and Operations

Subject: **Request for Proposal – Professional Engineering Services for Design of FY 23/24 Pipeline Replacement Project E-1069**

INFORMATION ITEM:

Request for Proposal for Professional Engineering Services in Desing of FY 23/24 Pipeline Replacement Project E-1069 – Discussion on FY 23/24 pipeline replacement capital improvement project E-1069 which includes replacement of pipelines along Montrose Ave (block 2400-2700) and Montrose Ln (block 2200).

BACKGROUND:

Crescenta Valley Water District (CVWD) is embarking on its FY 23/24 capital improvement project program to replace old and undersized steel pipelines within its water distribution system. The District's goal is to maintain a pipeline replacement schedule that will replace all pipelines within a 75-year period. Currently about 50% of CVWD's pipelines will be over 75 years old in the next 20 years. To meet this goal, CVWD would have to replace approximately 50 miles of pipeline before 2045, about 2.3 miles of pipeline annually. The specific pipelines to be replaced per year are based on age of pipeline, pipe size, pipe material and number of previous leaks. The pipelines are also grouped within a specific area of the District for ease of construction.

CVWD's Board approved the FY 23/24 Water Budget in June 2023, and the approved budget showed $4M available for pipeline replacement as part of the CIP budget. Recently additional funding has been procured, and CVWD will be resuming replacement of approximately 1.0 mile of pipeline for this coming fiscal year and attempting to return to the original pipeline replacement schedule in the future to accommodate for the 75-year replacement schedule. CVWD's Engineering Department in previous years, performed the planning, design, specification development, potholing, trench marking, materials ordering, bidding, community outreach, construction administration, and inspection for pipeline projects.

For CVWD to meet our pipeline replacement schedule, we will need the assistance of a consulting engineering firm to prepare design plans and specifications to replace the existing 10-inch pipelines (as shown in the table below) with approximately 3,800 LF of new 12-inch water main along the 2400-2700 blocks Montrose Avenue and 725 LF of new 6-inch water main along the 2200 block of Montrose Lane. CVWD is planning to advertise and bid this work as one project and complete the project by June 30, 2024.

Block No.	Street Name	Year Const.	Ex. Pipe Dia. (in)	New Pipeline Dia. (in)	Length (L.F.)	Contractor Cost Estimate	Consultant, Materials, Permits, etc.	Total Cost Estimate	Cost/LF
2400-2500	Montrose Ave	1948	10	12	1,850	**$911,400**	**$361,400**	**$1,272,800**	
2600-2700	Montrose Ave	1948	10	12	1,950	**$771,793**	**$370,807**	**$1,142,600**	
2200	Montrose Ln	1933	5	6	725	**$293,700**	**$174,400**	**$468,100**	
	Total				**4,525**	**$1,976,893**	**$906,607**	**$2,883,500**	**$637**

Block 2400-2500 (Montrose Ave between Del Mar Rd and Rosemount Ave) involves replacement of 1850 LF of 10-inch steel main with new 12-inch steel pipe and includes replacing 3 fire hydrants, 30 water service laterals, 1 fire service lateral and 3 gate valves. Block 2600-2700 (Montrose Ave between Rosemount Ave and La Crescenta Ave) involves replacement of 1950 LF of 10-inch steel main with new 12-inch steel pipe and includes replacing 3 fire hydrants, 34 water service laterals, 1 fire service lateral and 3 gate valves.

Montrose Avenue is a high traffic density street in which construction may impact street parking and require traffic control. Block 2400-2500 includes two churches and a combination of single-family and multi-family apartments. Block 2600-2700 includes a preschool, church, Girls Scouts program center, single-family and multi-family homes and fives businesses. Block 2600-2700 additionally requires crossing LACFCD facility Pickens Canyon Channel.

Block 2200 of Montrose Ln is an alleyway located between Ocean View Blvd and Thompson Ct (another alleyway). Directly south of Montrose Ln are businesses while a large parking lot is located directly north. The scope includes replacing existing 5-inch steel pipeline within a concrete alleyway with new 6-inch steel pipe and includes replacement of 10 water laterals and 2 gate valves.

Not included in this proposal is block 3000-3100 of Montrose Avenue. Staff has decided to take on the design in-house as an effort to expediate the process due to the recent major mainline leak that occurred on Friday, August 11th 2023.

DISCUSSION:

On September 1st staff sent out a request for proposal (RFP) to five (5) consulting engineering firms to prepare design plans, specifications and construction services for Project E-1069. Each firm has prior experience with professional services specific to pipeline replacement projects. Attached for your review is the RFP that included the scope of work and other project parameters. On September 7th, staff held a pre-proposal teleconference meeting with the consulting firms and provided information about CVWD, the scope of work and proposed schedule. The proposals are due October 4th 2023.

Prepared by:

Elias Sebhatu, P.E.
Senior Engineer

Submitted by:

Brook Yared, M.S., P.E.
Director of Engineering & Operations

Attachments:

1. CVWD's Request for Proposals

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REQUEST FOR PROPOSAL

PROFESSIONAL ENGINEERING SERVICES FOR DESIGN OF FY 23/24 PIPELINE REPLACEMENT PROJECT, PROJECT E-1069

PROPOSAL DUE DATE: October 4, 2023

INTRODUCTION:

Crescenta Valley Water District (CVWD) is embarking on its FY 23/24 capital improvement project program, which includes the replacement of old and undersized steel pipelines within the water distribution system. The District's goal is to maintain a pipeline replacement schedule that will replace all pipelines within an 75-year period. Currently about 50% of CVWD's pipelines will be over 75 years old in the next 20 years. To meet this goal, CVWD would have to replace approximately 50 miles of pipeline before 2040, about 1.7 miles of pipeline annually. The specific pipelines to be replaced per year are based on age of pipeline, pipe size, pipe material and number of previous leaks. The pipelines are also grouped within a specific area of the District for ease of construction.

CVWD's Board approved the FY 23/24 Water Budget in June 2023, and the approved budget showed $4M available for pipeline replacement as part of the CIP budget. Recently additional funding has been procured, and CVWD will be resuming replacement of approximately 1.0 mile of pipeline for this coming fiscal year and attempting to return to the original pipeline replacement schedule in the future to accommodate for the 75-year replacement schedule. CVWD's Engineering Department in previous years, performed the planning, design, specification development, potholing, trench marking, materials ordering, bidding, community outreach, construction administration, and inspection for pipeline projects.

For CVWD to meet our pipeline replacement schedule, we will need the assistance of a consulting engineering firm to prepare design plans and specifications to replace the existing 10-inch pipelines (as shown in the table below) with approximately 3,775 LF of new 12-inch water main along the 2400-2700 blocks Montrose Ave. and 725 LF of new 6-inch water main along the 2200 block of Montrose Ln. CVWD is planning to advertise and bid this work as one project and complete the project by June 30, 2024.

Block No.	Street Name	Year Const.	Ex. Pipe Dia. (in)	New Pipeline Dia. (in)	Length (L.F.)	Contractor Cost Estimate	Consultant, Materials, Permits, etc.	Total Cost Estimate	Cost/LF
2400-2500	Montrose Ave	1948	10	12	1,850	**$911,400**	**$361,400**	**$1,272,800**	
2600-2700	Montrose Ave	1948	10	12	1,950	**$771,793**	**$370,807**	**$1,142,600**	
2200	Montrose Ln	1933	5	6	725	**$293,700**	**$174,400**	**$468,100**	
	Total				**4,525**	**$1,976,893**	**$906,607**	**$2,883,500**	**$637**

SCOPE OF WORK

CVWD is seeking a professional engineering firm to design and prepare construction specification documents for the installation of the new pipelines as described above. The major elements of the project include the following:

- Topographic survey and right-of-way mapping
- Utility research and compiling for base map.
- Pothole plan for utility crossing and connection to existing water mains, including permits. Performance of potholing shall be completed by the District.
- Pipeline design (plan view only) per CVWD design and AutoCAD standards.
- Details of connection to existing water mains.
- Design of crossing of Pickens Canyon Channel and submittal of plans for permit approval with Los Angeles County Flood Control
- Coordination with Los Angeles County, Department of Public Works
  - Design requirements relative to pavement replacement, backfill requirements, water discharge BMPs and traffic control.
  - Approval of all fire hydrant locations.
  - Excavation Permit – Submittal and preliminary approval. Contractor will obtain the final permit. CVWD will pay all permit fees.
- If necessary, coordination with State Water Resources Control Board, Division of Drinking Water for variance approval.
- Project Front-end Specifications. Sample provided by CVWD.
- Project Special and Technical Provisions. Sample provided by CVWD.
- List of all materials necessary for project construction.
- Bidding Schedule and Engineer's construction cost estimate. Bidding coordinated with CVWD.
- Project Schedule for design phase and estimated construction schedule.
- Construction services including:
  - Assistance with response to requests for information.
  - Review of shop drawings and submittals.
  - Construction staking including marking centerline of trench.
- As-built drawing updates per redline information from the Contractor.

Deliverables:

- Prepare 100% submittal and final submittal of construction drawings and specifications.
- Project Meetings - Attendance at least five (5) design and bidding project meeting
  - Kick-off Meeting
  - 50% Submittal for pipeline alignment
  - 100% Submittal
  - Final Submittal
  - Pre-Bid Meeting
  - Pre-Construction Meeting

Project Schedule:

Task	Date
Pre-Proposal Meeting – Web Conference	September 7, 2023
Proposal Due	October 4, 2023
Award of Contract	October 11, 2023
Kick Off Meeting	October 12, 2023
Board Approval – Advertisement for Bids	January 2nd, 2024
Pre-Bid Meeting	January 17, 2024
Bid Opening	January 31, 2024
Board Approval – Award of Contract	February 13, 2024 (Tentative)
Start Construction	February 20, 2024

PROPOSAL REQUIREMENTS:

Scope of Work

The proposal shall include a detailed list itemizing the tasks required to complete the scope of work addressing all project criteria outlined above. Each task shall include a detailed estimate of man-hours required to complete each task.

Proposal Fee Schedule

The proposal shall include a "Fee Schedule" outlining all applicable hourly rates and costs for services. The proposal shall provide a breakdown of fees associated with the project task as specified above. The proposal shall also include a "not-to exceed" total fee, which shall include all work necessary to complete the project objective.

Schedule

The proposal shall include a proposed project schedule detailing the time of completion for design and permitting. The schedule shall include the number of calendar days required to perform each task and the total number of calendar days required to complete the entire project.

Project Experience

The proposal shall include description of comparable pipeline projects completed by consultant including experience working with the City of Glendale and Los Angeles County within past three (3) years including date completed, location of work names, addresses, and phone numbers of persons in charge of project, and the name and address of the public agency or firm for whom the project was constructed.

Consultant's Representative

The proposal shall name a responsible representative, an alternate, and all sub-consultants to perform the assigned tasks. The chosen consultant's representative will remain responsible and in charge of all duties from contract negotiations through project completion. If the primary representative is unable to continue with the project, then the alternate representative will become the primary representative. The District must approve any other changes in responsible representative, in advance. The District will have the right to reject other proposed changes in personnel and may consider any other changes in responsible personnel a breach of contract.

Professional Service Agreement

The chosen consultant shall be responsible for completing the specified services in accordance with the District's standard "Professional Services Agreement," which will be prepared by the District. Services specified in this agreement shall be taken directly from the consultant's accepted proposal and from this "Request for Proposal", if applicable.

Insurance Requirements

The District will require employer’s liability, comprehensive commercial liability insurance, and errors and omissions insurance coverage for at least $2,000,000 and comprehensive automobile liability for at least $1,000,000. The District requires that the District be named as additional insured on the policy and such insurance policy shall not be terminated or canceled without thirty (30) days prior written notice to the District.

District Reimbursements

The District normally reimburses consultants for the actual cost (plus 15%) for all outside expenses, including those for material costs authorized in advance by the District. Other reasonable expenses will be reimbursed where such costs have been advanced by consultant and approved by the District.

The chosen consultant shall not be compensated for use of computers, office equipment, hardware, or software materials. Said costs are not compensated and time expended by consultant's personnel on such equipment is included within the hourly rate as shown on the consultant's fee schedule.

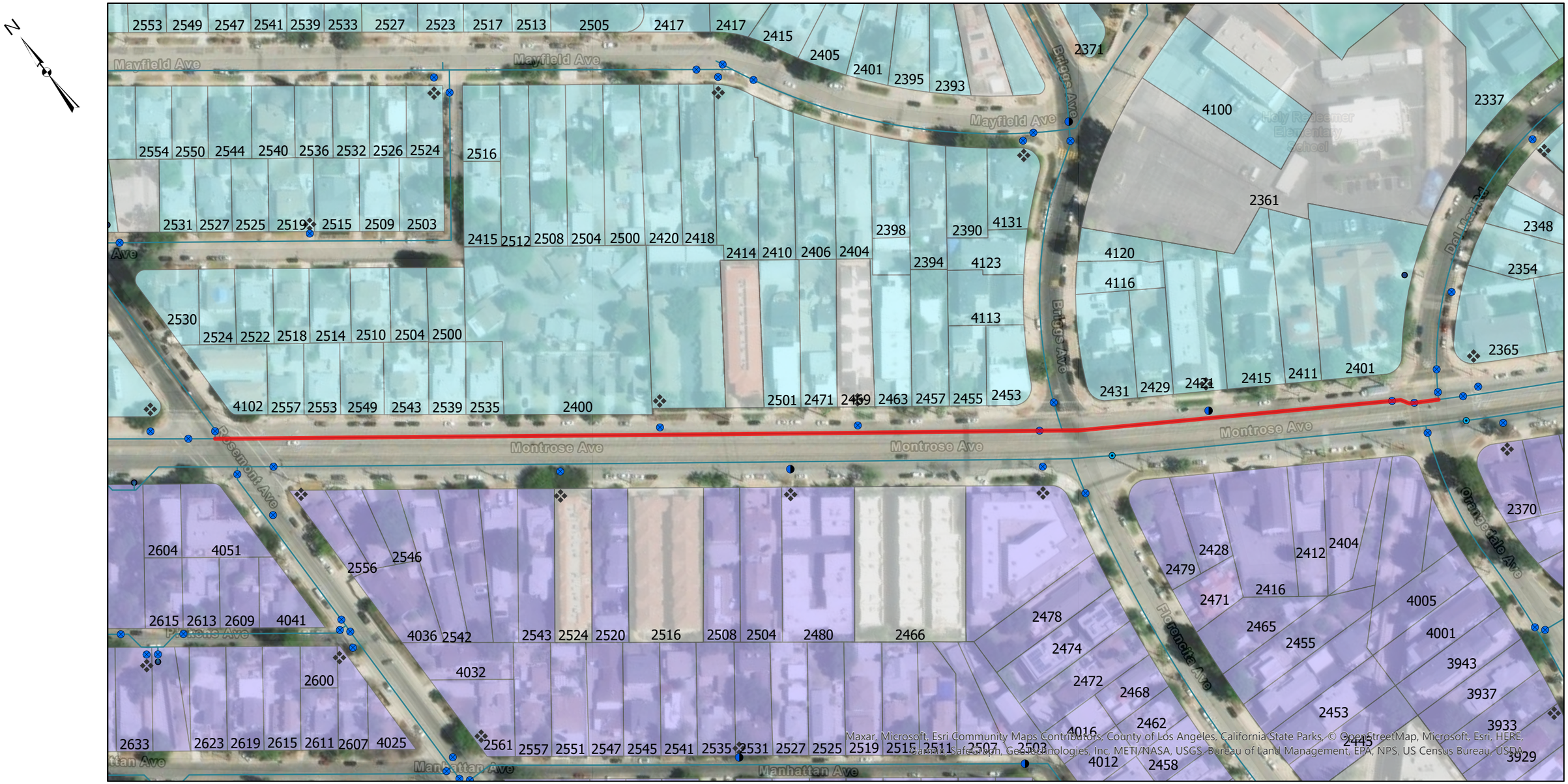
District Responsibilities:

District will provide the following to assist the selected consultant with the project and its completion:

- Geographic information system (GIS) information and topographic surveys as available.
- Reports, plans, and drawings, as available and pertinent to the proposed plan.
- Design criteria, preferred manufacturer's information, and other technical information, as available and pertinent to the project.
- Current operational condition and performance of existing infrastructure pertinent to the proposed plan.

Proposal Due Date:

Please submit one (1) copy of the proposal as a PDF file via e-mail via e-mail by 12:00 pm by October 4, 2024, to esebhatu@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. Brook Yared, Director of Engineering and Operations at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. If you have any questions or comments, contact Mr. Sebhatu at (818) 236-4117.



FY 23/24 Pipeline Replacement: Montrose Ave (Block 2400-2500)

0 100 200 300 400 Feet

LEGEND:

Existing System

- Water Main
- Hydrant
- Ball Valve
- Butterfly Valve
- Gate Valve

Proposed Construction

- 10-inch Pipeline to be Replaced

Total Length: 1,850 LF
Proposed Pipe Diameter: 12-inch
Material: CMLxCMC 10 ga. Steel

CRESCENTA VALLEY WATER DISTRICT
CVWD

FY 23/24 Pipeline Replacement: Montrose Ave (Block 2400-2500)

0 100 200 300 400 Feet

LEGEND:

Existing System

- Water Main
- Hydrant
- Butterfly Valve
- Gate Valve
- PRV

Proposed Construction

- 10-inch Pipeline to be Replaced

Total Length: 1,950 LF
Proposed Pipe Diameter: 12-inch
Material: CMLxCMC 10 ga. Steel

CRESCENTA VALLEY WATER DISTRICT
CVWD

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FY 23/24 Pipeline Replacement: Montrose Lane (Block 2200)

LEGEND:

Existing System

- Water Main
- Hydrant
- Butterfly Valve
- Gate Valve

Proposed Construction

- 5-inch Pipeline to be Replaced

  Total Length: 725 LF
  Proposed Pipe Diameter: 6-inch
  Material: CMLxCMC 10 ga. Steel

0 60 120 180 240 Feet

CRESCENTA VALLEY WATER DISTRICT CVWD

CRESCENTA VALLEY WATER DISTRICT
STAFF REPORT

Information Item No. 6

To: Engineering Committee — September 8, 2023

From: Brook Yared, M.S., P.E. – Director of Engineering and Operations

Subject: **Annual Contract for Booster Pump and Well Capital Improvement, Emergency Response, and Maintenance Services**

INFORMATION ITEM:

Annual Contract for Booster Pump and Well Capital Improvement, Emergency Response, and Maintenance Services – Discussion regarding utilizing a General Pump Company (GPC) to provide annual pump and well rehabilitation services, as well as annual pump capital improvement, emergency response, and maintenance services.

BACKGROUND:

CVWD has twelve (12) groundwater wells with pumps and thirty-four (34) booster pumps to access and transport local water supplies from the Verdugo Basin and lower pressure zones to reservoirs in higher-pressure zones, which is necessary to provide water throughout our diverse terrain. As staff prepared the annual Capital Improvement Project (CIP) program, projects are included for the replacement and rehabilitation of at least one well and at least one booster pump per year.

A goal of CVWD's strategic plan is for CVWD to become proactive on pump maintenance instead of being reactive when a pump or motor fails. To meet this goal, in FY 22/23 CVWD partnered with General Pump Company in an annual contract to provide the services described herein, including on-call inspection, analysis, and reporting on all CVWD's wells, pumps, and motors and emergency response services for wells and booster pumps.

DISCUSSION:

Staff has developed a new request for proposals (RFP) for FY 23/24 to renew the annual contract for Booster Pump and Well CIP, Emergency Response and Maintenance services. The RFP details the limits of work for well rehabilitation as well as booster pump maintenance and replacement services, including emergency services and annual pump and motor maintenance. The proposal being requested shall include the following items and contractually guarantee that the work is done in accordance with CVWD's Rules and Regulations and all state and local regulations.

Annual Groundwater Well Rehabilitation:

Staff has developed a detailed standard approach to well rehabilitation that can be used by a pump contractor as part of an annual well rehabilitation program. These projects represent some of the most profitable for the District as they allow the community to access local water supplies stored in the Verdugo Basin. Staff has been investigating ways to improve our daily efficiency with respect to pump maintenance as we focus on our ever-increasing volume of annual pipeline replacements.

In a reactive maintenance approach, a well can fail and remain inactive for months representing a large cost increase as the District will need to source water from imported sources during this downtime. After a well pump has failed, staff requires time to design and resize the pump, publicly advertise for bids, and award a contract that take upwards of two or three (2-3) months before actual work, by a contractor, can begin. Rushed contracting of these critical services also poses a risk of having an underqualified pump contractor win the bid, which can result in delayed construction, poor pump selection due to lack of availability, and/or damage to the well casing.

Having an established Contractor for all planned and emergency work would allow for earlier materials procurement and reduce mobilization time, which reduces the downtime of any of our vital groundwater resources to between two and three (2-3) weeks.

Annual Booster Pump Rehabilitation

Staff has also developed a standard approach to booster pump replacement that a pump contractor could utilize as part of the annual booster pump rehabilitation so staff can focus on the annual pipeline replacement program.

As discussed above, with reactive maintenance there is a period, between two to three (2-3) months, before actual work by a contractor can begin. Therefore, staff is also recommending that we include this task as part of the RFP

so the design work and materials procurement can take place in advance of construction. This will eliminate the time lag between the start of design and mobilization on-site.

Annual Booster Pump Inspection and Maintenance Service

As part of CVWD's strategic plan, staff's objective is to become proactive on pump maintenance. To meet this objective, staff will need the assistance of a pump contractor, to provide annual maintenance and inspection services such as motor maintenance, pump efficiency, and visual inspection of all CVWD's pumps and motors at least once a year. The pump contractor will also be required to provide an inspection report with recommendations that staff can use to prioritize pump and motor replacement or rehabilitation in the following years.

Emergency Pump & Motor Services

Finally, the RFP provides for critical emergency services during a man-made or natural emergency. A contractor must be able to provide emergency services and be responsive to an emergency event within 24 hours. The contract will be based on the agreed upon fee/rate schedule, response time, and availability of materials. Most importantly, it would eliminate the need to seek out an available pump contractor during an emergency.

Pump Contractors:

CVWD has utilized several pump contractors over the years. Some of the issues with pump contractors in the past include: overextension of contracted work, not providing timely service, not having materials on-hand, and failure of critical equipment. Conversely, General Pump Company has provided the best service compared to other contractors, and the last well rehabilitation they performed for CVWD was completed within two (2) months as compared to four to five (4-5) months with other contractors.

In addition, General Pump has demonstrated a high level of expertise with respect to knowledge on pump design and well rehabilitation. They have a large inventory of material and equipment that is dependable and stored locally. Finally, they are among a small group of firms that has engineers and hydrogeologists on staff to assist with testing, analyzing, and designing advanced well rehabilitations and booster pump replacements, including an approach and strategy in the face of unique challenges in the field.

FY 23/24 – CIP Contract Cost Estimate:

Staff reviewed General Pump's fee schedule and estimated the project costs for the rehabilitation of Well 14 and the replacement of motor of Mills Booster A and pump and motor replacement at Mills Booster B, as discussed below.

Well Rehabilitation:

Past well rehabilitation projects for the District, which require large contributions of staff's time, have cost between $95,000-$120,000. Based on estimates of General Pump's past fee schedule, staff estimates the cost for the rehabilitation of Well 14 to be around $150,000. The scope of work for the rehabilitation of Well 14 would include the following:

- Removal of the existing pump and motor assembly
- Pre-rehabilitation CCTV inspection of well casing
- Review inspection data and make rehabilitation recommendations
- Temporary test pumping to perform Constant Rate or Step Drawdown testing
- Procurement of a new pump and motor assembly
- Mechanical development of the well
- Chemical treatment of well casing using acids and dispersants
- Advanced treatment, options of the well casing (i.e., Sonar Jetting, Air Bursting)
- Post-rehabilitation CCTV of well casing
- New pump and motor assembly installation
- Discharge requirements per NPDES best management practices
- Pump startup and testing
- Return well to service: well disinfection and DDW approval
- As built and report submission

Booster Pump Rehabilitation

Booster Pump rehabilitation or replacement does not involve as much rehabilitation work, however booster pumps are generally larger, more expensive, and require a longer lead time to procure. Historically, the average booster pump replacement cost ranges from $25,000 to $45,000, depending on the size and capacity of the pump. To upgrade Booster A (VFD motor upgrade only) & B (pump replacement only) at the Mills Facility, staff estimates the cost to be around $110,000. The scope of work for Booster A & B at the Mills Facility includes the following:

- Assessment of pump failure at the site, if necessary (vibration analysis, power surge)
- Remove pump and motor assembly
- Perform inspection of existing pump and motor for reporting
- Review inspection data and make rehabilitation recommendations
- Assess line shaft and column pipe for refurbishment or replacement
- Procure the new pump & motor assembly plus all necessary column piping or appurtenances
- Install new pump and motor after staff review.
- Start up and testing
- As built and report submission

Annual Booster Pump Inspection and Maintenance Service

Staff reviewed General Pump's rate schedule for providing semi-annual maintenance and inspection services for all CVWD's pumps and motors and provide an inspection report with recommendations based on industry best practices. Staff has estimated the annual cost for pump maintenance and inspection services for FY 23/24 (one inspection per site) to be approximately $66,000 and will be drawn from Operating Budget under the Booster Pump Maintenance account.

Emergency Pump & Motor Services

Staff reviewed General Pump's rate schedule for providing emergency pump and motor services and estimated the annual cost to be around $15,000, on an as-needed basis. Any services incurred will be drawn from the Operating Budget under the Emergency Operations account.

SUMMARY & RECOMMENDATION:

Staff put together a preliminary cost estimate for an Annual Contract for Booster Pump and Well Capital Improvement, Emergency Response and Maintenance Services for FY 23/24 at $341,000 by General Pump (see table below).

Id No.	FY 23/24 Booster Pump and Well Emergency and Maintenance Services	Estimated Annual Cost
1	Well Rehabilitation	$150,000
2	Booster Pump Rehabilitation	$110,000
3	Annual Booster Pump Inspection and Maintenance Service (Expense)	$66,000
4	Emergency Pump & Motor Services (Expense)	$15,000
	FY 23/24 Total	$341,000

The actual cost for the proposed work will be determined once a proposal has been submitted.

It is staff's recommendation to solicit a proposal from General Pump Company to provide services to accomplish the work described above. Proposals will be due by the end of the month and brought to the Board of Directors for award of contract in October.

Prepared by:

Elias Sebhatu, P.E.
Senior Engineer

Submitted by:

Brook Yared, M.S., P.E.
Director of Engineering & Operations

Attachments:

1. CVWD's Request for Proposals

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FY 23/24
ANNUAL WELL AND PUMP MAINTENANCE
&
EMERGENCY SERVICES

Request for Proposal

Proposal Delivery Due Date:

Wednesday, October 10, 2023

12:00 PM PST

Delivery Address:

Crescenta Valley Water District
2700 Foothill Blvd
La Crescenta, CA 91214
Attention: Brook Yared
Director of Engineering & Operations

Contents

I. INTRODUCTION

Crescenta Valley Water District (CVWD) is seeking construction, maintenance, and professional services for annual Well and Pump Maintenance and Emergency Services as outlined in this RFP.

Crescenta Valley Water District (CVWD or the District) was formed as a "County" Water District in 1950 to provide water and wastewater services to the La Crescenta area (unincorporated Los Angeles County) and portions of Glendale and La Canada Flintridge. CVWD serves water to approximately 32,500 people and has about 8,000 service connections. CVWD's service area covers approximately four (4) square miles in the foothills between Pasadena on the east and Glendale on the south and west. To the north are the San Gabriel Mountains.

CVWD water supply includes local groundwater from the Verdugo Basin and imported water from Foothill Municipal Water District (FMWD). FMWD is a member agency of the Metropolitan Water District of Southern California (MWD).

CVWD's water distribution infrastructure includes 11 pressure zones, approximately 95 miles of pipeline, 13 booster stations with 34 booster pumps, 12 groundwater wells, and 17 storage reservoirs. As a major part in the ongoing effort to maintain a safe, secure, and reliable water service, CWVD performs annual maintenance of its booster pump and well facilities located throughout its service area.

1) CONTACT INFORMATION:

Project Manager:

Mr. Brook Yared, Director of Engineering & Operations
2700 Foothill Blvd
La Crescenta, CA 91214
Email: byared@cvwd.com
Phone: Office (818) 236-4119; Cell (626) 590-1020

Mr. Elias Sebhatu, Senior Engineer
2700 Foothill Blvd
La Crescenta, CA 91214
Email: esebhatu@cvwd.com
Phone: Office (818) 236-4117

Operations:

Mr. Kellen Boyce, Production Manager
3730 Glenwood Ave
La Crescenta, CA 91214
Email: kboyce@cvwd.com
Phone: Office (818) 236-3105; Cell (818) 284-5817

Ms. Darlene Telles, Operations & Maintenance Manager
3730 Glenwood Ave
La Crescenta, CA 91214
Email: dtelles@cvwd.com
Phone: Office (818) 236-4132; Cell (626) 437-8662

Timeline

Request for Proposal Sent:	September 11, 2023
Question Submittal Deadline	September 29, 2023
Proposal Due	October 6, 2023
Award of Contract	October 10, 2023

II. SCOPE OF REHABILITATION AND REPLACEMENT WORK

The work shall include routine and emergency pump pulling and installations, water well rehabilitations, well casing repairs and installations, well abandonments, well video inspections, and/or repair services on various types of pumps on an as-needed basis. The responsibilities of the Contractor under this RFP shall include but are not limited to the following requirements:

The work shall include:

a) Baseline assessment
b) Routine and emergency pump and motor removal, inspection, and installation
c) Water well rehabilitation activities:
    - brushing
    - bailing by pumping
    - chemical treatment
    - mechanical development
    - Start up and testing
d) Well casing repairs and installations
e) Static well CCTV inspection & reporting
f) MCC Power Connection
g) Repair services on various types of pumps on an as-needed basis.

The results of inspection reports may call for advanced methods of well rehabilitation at times. CVWD will rely on recommendations from the selected Contractor to provide options should any of the following non-standard repair/rehabilitation steps be deemed necessary.

a) Variable Frequency Drive (VFD) Maintenance
b) Dynamic well CCTV inspection & reporting
c) Advanced Well Analysis (Spinner logs, casing analysis)
d) Advanced Well Rehabilitation recommendations (i.e., sonar jetting, air bursting)
e) Vibration Analysis
f) Test/rental pump and motor assembly installation, piping, electrical starter, and removal
g) Constant Rate and Step Drawdown testing
h) Well abandonments

See section VII for proposal requirements.

1) TECHNICAL REQUIREMENTS – WELLS

a) Pump and Motor Removal and Inspection

Contractor shall disconnect all electrical wiring and appurtenances necessary for the pulling of a well pump (maximum 500-feet below ground surface). Contractor shall remove the motor, discharge head, oil tubing or submersible motor cable, shafting, column, bowl assembly, strainer, and airline.

All component parts shall be closely inspected for excessive wear, cracks, holes, corrosion, or any type of damage, which would necessitate any repairs or replacement parts.

Contractor shall sound total well depth from surface and provide a depth to the bottom of the well along with detailed reports of the well inspection.

b) Well CCTV Inspection

1. Static Video Inspection:

    a. After removal of the pump and upon CVWD's direction, Contractor shall perform well video inspection using color video equipment with side scan.

b. The Contractor shall furnish all labor, materials and equipment required to provide a color video survey of the well after preparation of the water to produce clear viewing conditions.

c. If necessary, the Contractor will introduce a polymer type flocculant into the well, followed by water. Contractor will allow water to flow into the well for a 24 to 48-hour time period in advance of the video survey to produce clear viewing conditions.

d. Should a clear video picture of the internal casing conditions not be achieved, additional clear water preparations shall be instituted, and additional video surveys conducted until a clear video picture record is obtained. This work shall be accomplished at the Contractor's expense.

e. As the camera probe surveys the full casing interval in the well, a digital depth record shall be recorded on the video survey log for reference. The video camera shall be capable of providing both vertical and horizontal (side) viewing of the entire casing as it descends into the well.

f. When a successful video survey log has been acquired, one copy in CD/DVD format shall be provided to CVWD. Contractor shall submit a written report to accompany the video survey log, documenting survey date, static water level, perforation depth intervals and conditions, and total well depth.

2. Dynamic Video Inspection

a. Dynamic Video inspections are performed while the pump is still in operations.

b. The Contractor is responsible for any damage to the dynamic well CCTV equipment that may occur during inspection of an operating pump.

c. As the camera probe surveys the full casing interval in the well, a digital depth record shall be recorded on the video survey log for reference. The video camera shall be capable of providing a vertical viewing of the entire casing as it descends into the well.

c) Wire Brushing and Bailing

Wire brushing shall be carried out in such a manner as to clean the existing casing perforations and to remove scale and tubercles attached to the inside wall of the casing. The Contractor shall furnish the appropriate wire brush. If the well casing screen is wire wrapped, then Contractor shall use an approved stiff nylon brush.

The brush barrel shall be not less than 6 inches smaller in diameter than the well casing. The brushing elements inserted into the barrel shall consist of 7/8-inch diameter minimum stiff steel cable adequately spaced to clean the entire well. A minimum of 1500 pounds shall be required to drive the brush down the well.

After sufficient wire brushing, the well will be allowed to sit for a 24-to-48-hour time period and debris in the water column will be allowed to settle to the bottom of the well during this period. Sediment fill shall be removed from the bottom of the well to the maximum extent possible using a bailer or scow or equivalent retrieval device.

The total depth of the well shall be measured shortly following bailing. This operation will be performed only if the casing appears to be in relatively good condition. Should it appear that there is any damaged casing, or any sections of casing appear to be in a state of detachment from the well, the bailing should not be performed.

If bailing is performed, then all bailed material (water and sediment) shall be placed in steel drums or appropriate containers. The sediment, after separation from the water, shall be placed in the containers, properly labeled, and eventually removed from the well site for disposal by the Contractor.

The Contractor will be responsible for manifesting the bailed material for disposal at an appropriate and approved landfill. The District shall be onsite to collect a sample of the bailed material for possible laboratory analysis.

d) Advanced Well Inspection & Rehabilitation

Advanced Inspection: Determining the best approach to the rehabilitation of a well can require advanced inspection methods. This can include spinner logs, dynamic well videos, and vibration analysis.

Advanced Rehabilitation: At times, wells require additional work to restore the screen efficiency or repair damage to the casing. When necessary, the Contractor shall recommend advanced rehabilitation repairs to CVWD before any work is allowed to proceed. After reviewing the rehabilitation method CVWD staff will either approved the recommended work or propose an alternative based on the best available technology at the time.

e) Liner Installation and Gravel Pack

If required, a Roscoe Moss Company well casing liner, or approved equivalent, shall be installed to maximize the flow of groundwater into the well and minimize the movement or formation of sand into the well. Prior to ordering, the Contractor shall collaborate with staff to determine the approximate locations, depth and sizing of the blank and perforated well casing liner.

Casing guides or centralizers shall be welded to the casing at 40-foot intervals starting at the bottom of the well casing and terminating at 60 feet below the pump base. Care shall be taken to ensure that the existing mild steel well casing is not in contact at any point with the stainless well casing or guides.

Completed blank and perforated well casing shall be suspended above the bottom of the hole, by a suspension clamp, a sufficient distance to ensure that casing and screen will not be supported from the bottom. Should damage occur to the blank or perforated well casing during the installation, gravel packing, development, or pumping. The Contractor shall repair the damage.

Welding collars shall have at least the same thickness and the same chemical and physical properties as the corresponding casing section, shall be 4-inches in width, shall be rolled to fit the outside diameter, and shall be welded to the casing section. Longitudinal welds on the plain end shall be ground to plate surface a sufficient distance from the end to allow plain end insertion into the collar. The inside edge of the collars and the outside edge of the adjacent casing length shall be ground or sufficiently smoothed to remove sharp edges or burrs.

If recommended, gravel used as the filter pack material shall be composed of durable, hard, sound, rounded, smooth, and uniform particles containing no clay, loam, mica, shale, silt, organic matter, or deleterious materials. Gravel size and gradation shall tentatively consist of Silica Resources, Inc. 8-12 Blend (6x16 gradation). However, the gravel size and gradation specified are subject to change by the Manufacturer and Contractor following review of the sieve analysis of formation sand entering the existing well. Unless specified otherwise, gravel shall be well graded and shall have a uniformity coefficient (size of sieve that retains 40 percent of sampled divided by size of sieve that retains 90 percent of sample) of 2.0 to 3.0.

During placement of the gravel, liquid sodium hypochlorite (10% solution) shall be added to the gravel at the rate of one gallon for each cubic yard (equivalent to one Super Sack) of gravel installed. Cleaning and consolidation of the gravel pack shall be accomplished by circulation, swabbing, and/or jetting until there is no further settlement of the gravel before proceeding with well construction. After the gravel is installed, a swab shall be carefully worked opposite all perforated sections beginning at the bottom of the perforated section, through the entire length of the perforations. The swab shall be double-flanged and as approved by the Engineer. As the gravel settles, more shall be added.

The quantity of gravel pack material placed in the annulus shall be at least as great as the calculated volume of the annulus (between the existing well casing and the new well casing) based upon the caliper

survey. The Contractor shall supply the devices required to measure the volume of gravel placed in the well.

f) Temporary Test Pump Mobilization/Demobilization

If requested, the Contractor shall furnish, install, and remove a deep-well turbine pump, prime mover, column assembly, and all appurtenances necessary for developing and/or test pumping the well.

The pump and prime mover shall have a capacity and ample range to perform Constant Rate and Step drawdown testing when necessary.

1. The prime mover shall be a variable speed type.
2. Contractor shall furnish all fuel or power required to operate the pumping unit.
3. A temporary 2 to 3-inch I.D. access tube shall be installed during pump installation and will provide access for water level sounders into the well casing during pumping, to measure water levels.
4. The prime mover shall be a variable-speed type with a gear ratio of 1 to 2, in order to overdrive the pump to attain the desired pump rate. The prime mover shall meet all noise regulation requirements during development and subsequent testing operations.
5. Discharge piping shall be provided for the pumping unit and be of sufficient size and length to conduct water according to the Special Provisions in these Specifications.
6. The Contractor shall provide orifices, meters, or other approved devices that will accurately measure the flow rates, in total amount of water pumped (in gallons) and the instantaneous discharge (in gpm).
7. The discharge line shall be provided with suitable equipment for sand testing, such as the Rossum Centrifugal Sand Sampler.

g) Well Abandonment

The minimum procedure for decommissioning a well in an area with a single aquifer is:

1. Assemble all known information about the well. A CCTV inspection of the well is required if one has not been recently performed.
2. Using the known data, develop a work plan to restore, as far as feasible, the controlling geological conditions that existed before the well was constructed. Work plans shall consist of well log, video log, water level, vulnerability to contamination, details or original construction, specifications of materials to be used, cement formulations, placement of material, perforator and pressure sealing method, calculations as to volume of grout required to seal the casing and voids.
3. Complete the well permit application form. File a service request and pay the required fee.
4. Review the work plan with the local Environmental Health inspector and reach an agreement as to the scope of the work.
5. Remove obstructions and contaminants.
6. Fill the casing up to 150 feet below grade with at least a six-sack fine sand mix. Used drilling mud or drill cuttings are not acceptable. Perforate the casing from 150 feet up to the bottom of the annular seal, if any. Pressure grout (20-40 psi) with neat cement from 150 feet up 4 feet below grade. Pressure shall be maintained for a length of time sufficient for the cementing mixture to set. Cut the casing at 5 ft. and mushroom a cap over the casing. Cover

with fill material up to grade. If the developer needs to cut the casing deeper than 4 feet, OSHA requirements shall be considered.

7. The placement of all materials shall prevent free fall, dilution, and/or separation of aggregates from cementing materials by pumping through a tremie tube.
8. As a rule of thumb, divide the diameter of the casing by 2 to get the minimum number of perforations required per round per foot.
9. Verify that the volume of material placed in the well at least equals the volume of the hole.
10. Arrange for an appointment with the local environmental health inspector to witness the placement of the annular seal.
11. Submit a copy of the well completion report including as-built and pump curve to CVWD's Engineering Department.

Dry holes or exploratory borings are to be destroyed by the placement of approved fill up to a maximum of 50 feet below ground surface. The upper 50 feet is to be sealed using neat cement pumped from the bottom up through a tremie tube. Approved fill material is defined as any inert material equal or finer than native material such as cement, sand-cement grout, concrete, clay, silt or sand. Used drilling mud and drill cuttings are not acceptable.

h) Groundwater Well Pump and Motor Assembly Installation:

Contractor shall furnish all incidental materials to bring the project to a satisfactory completion. Whenever possible, pumps shall be manufactured by Hydroflo, Goulds, or Flowserve or an approved equal.

After completion of any necessary well repairs or rehabilitation work, the Contractor shall reinstall the bowl assembly, column, shafting, oil tubing or submersible motor cable, airline, level transducer, discharge head, and motor, making all joints and connections in a workmanlike manner.

All materials and rehabilitation processes recommended must be National Sanitation Foundation approved and/or certified by the National Groundwater Association and/or American Ground Water Trust. Maintaining these practices and materials standards does not waive final approval of all rehabilitation processes by CVWD.

CVWD will chlorinate the well in accordance with DDW regulations when Contractor has completed the rehabilitation and pass series sampling before the Well is allowed to be returned to service.

The Contractor shall coordinate with CVWD to ensure that all discharges associated with the rehabilitation of the well, at all steps of the project, meet NPDES permit requirements and shall bear the cost for all discharges not in compliance with and/or exceeding the discharge limitations of the NPDES permit.

i) Well Rehabilitation Project Completion

Prior to official completion of a well rehabilitation project, CVWD will provide the Contractor with the results of the passing set of water quality series samples. After all sampling has been complete and the Well is approved by CVWD to be returned to service, the contractor shall submit a letter summarizing the rehabilitation steps taken to improve the well. CVWD will provide this letter and the final passing series sample to DDW.

The Contractor is also required to provide a well casing profile update, pump and motor as-builts summarizing the location of the pump in the well and the pertinent pump and motor information, and all pump and motor performance documentation to the satisfaction of CVWD.

2) TECHNICAL REQUIREMENTS - BOOSTER PUMPS:

a) Removal of Existing Booster Pump

Before the booster pump is removed from the pump can the Contractor is responsible for coordinating with CVWD's water Production Manager and disconnecting all power from the booster pump in coordination.

1. Pump Pulling and Inspection
    a. Contractor shall disconnect all electrical wiring and appurtenances necessary for removal of the booster.
    b. Remove the unit and inspect all component parts for excessive wear, cracks, corrosion, or any type of damage, which would necessitate any repairs, or replacement parts.
    c. Send a completed pump inspection report to CVWD including recommendations for repair.
2. Mobilization and Demobilization

The Contractor shall load, transport and unload pumping unit and all the miscellaneous pulled equipment from jobsite to Contractor's yard and back again to the job site upon repair or arrival of the replacement. The cost of freight, transportation and any associated taxes shall be included in the Contractors proposal ahead of the work being approved.

b) Removal of Existing Booster Pump

After completion of any necessary well repairs or rehabilitation work, the Contractor shall reinstall the bowl assembly, column, shafting, oil tubing or submersible motor cable, airline, level transducer, discharge head, and motor, making all joints and connections in a workmanlike manner.

Contractor shall furnish all incidental materials to bring the project to a satisfactory completion. Pumps shall be manufactured from Hydroflo, Goulds, Flowserve or approved equal.

Prior to installation, Contractor shall adequately disinfect the pump assembly, discharge head and column pipe assembly. After installation, Contractor shall test for rotation and operation of the completed installation to the satisfaction of CVWD.

Contractor shall move back onto the booster station site and shall reinstall the pump and motor, electrical connections, making all joints and connections in a workmanlike manner. Contractor shall restart the motor to make sure it is operating properly.

c) Booster Pump Repairs

The Contractor shall accomplish any repairs or replacements authorized by CVWD in accordance with one of the following:

1. Utilization of Contractor's own labor and equipment in accordance with Bidder's Proposal.
2. The securing of materials and/or outside services. Materials and outside services shall be paid for at actual invoice plus percentage mark-up in Bidder's Proposal.
3. Any suitable combination of the above.

CVWD reserves the right to have any necessary repairs and/or replacement parts furnished by others. At the discretion of the Director of Engineering and Operations, the Contractor's crew may be required to leave the job site until the necessary repairs are accomplished and/or replacement parts are procured.

d) New Electrical Motor

Unless otherwise agreed upon, any booster pump and motor assembly work will require the installation of a new, high efficiency motor. The motor shall be for continuous duty on 220/440 volts, 60 Hz, 3 phase alternating current. The motor shall be form wound utilizing a Class F winding system. The motor shall

be equipped with a seal, located at the top of the motor where its shaft extends through the motor housing; to isolate the well water from the oil filled motor housing.

The motor shall be filled with a high dielectric strength mineral oil and the oil shall be positively circulated throughout the motor for cooling, the rotor, stator windings and bearings. Bronze sleeve bearings shall be provided at each end of the rotor and a pivot shoe type thrust bearing shall carry the weight of all rotating parts and the hydraulic thrust of the pump. The thrust bearings must be bearings capable of continuous operation at shut off head, as well as sustained operation in an up thrust condition.

III. WELL AND BOOSTER PREVENTATIVE MAINTENANCE SERVICES

1) BASELINE ASSESSMENT

a) Review of District Practices
b) Review of Existing pump and well infrastructure records
c) Calculations of wire to water efficiency of pump and motor assemblies while they are in service
d) Perform Maintenance per manufacturers recommendation
    i. Make sure machines are properly shutdown before performing your maintenance and/or systems check. Proper isolation is important not only for electrical systems, but for hydraulic systems as well.

2) MECHANICAL INSPECTION

a) Check that mounting points are secure
b) Inspect the mechanical seal or packing gland
    i. Perform packing gland maintenance
a) Inspect the pump flanges for leaks
b) Inspect the couplings
c) Inspect and clean filters

3) LUBRICATION

Lubricate the motor and pump bearing per manufacturer's guidelines. Be sure not to over lubricate. More bearing damage occurs as a result of over greasing than under greasing. If the bearing has a vent cap, remove the cap and run the pump for 30 minutes before reinstalling cap. This will allow excess grease to work its way out of the bearing.

4) ELECTRICAL/MOTOR INSPECTION

a) Check that all terminations are tight
b) Inspect motor vents and windings for dust/dirt build-up and clean according to manufacturer's guidelines
c) Inspect starter/contractor for arcing, overheating, etc.
d) Use a megohmmeter on the windings to check for insulation failure

5) REPLACE DAMAGED SEALS, PACKING GLANDS AND HOSES

If any hoses, seals, or O-rings show wear or damage, replace immediately. Using a temporary rubber assembly lubricant will ensure a tight fit and prevent leaks or slips.

6) STAFF TRAINING

CVWD may require additional knowledge and skill on the part of its regular employees, such employees shall be given the opportunity to study, practice, and train alongside the Contractor's staff while work is being performed to acquire the knowledge and skill necessary to accomplish routine and advanced maintenance tasks.

IV. ON CALL EMERGENCY SERVICES

1) FIRM COMMITMENT OF AVAILABILITY OF SERVICE

Once a proposal is accepted, a Contractor is expected to maintain an availability of service as set forth in its proposal for at least four months after date of being awarded this annual contract. Under emergency circumstances, the District may request emergency services. In the event of such request, the contractor shall mobilize within 24 hours or less to perform the required task.

ln the event of any emergency constituting an immediate hazard to health, safety, property, or licensees, when caused by Work of the Contractor not in accordance with the Contract requirements, the District may undertake at Contractor's expense, and without prior notice, all Work necessary to correct such condition.

All work performed responding to an emergency will be paid on a time and material basis at the rates established in the Rate Sheet provided by the Contractor as part of their proposal.

2) RATE SHEET SUBMITTAL

Emergency work will be paid on a time and material basis. The Contractor shall submit their rate sheet for equipment and personnel along with their contractor license and insurance information to CVWD along with the finalized agreement for the work under this contract. All emergency work will be paid for on a time and material basis utilizing the information provided in the submitted rate sheet.

V. NPDES DISCHARGE REQUIREMENTS

It is the Contractor's responsibility to comply with local NPDES requirements and attain any necessary permits for discharges related to wells being removed from or returned to service. All the well wastewater generated as part of this annual contract shall be disposed of by the Contractor in compliance with all applicable State and Federal laws. The Contractor shall request approval by the Director of Engineering and Operations as to the location and estimated volume of the disposal prior to the discharge. The Contractor shall be responsible for monitoring, treating, testing, and disposing of the wastewater.

The Contractor shall be responsible for implementing a storm water pollution plan and to utilize best management practices (BMP) when de-watering the pipeline, flushing the pipeline, de-watering the trench and any other operation that discharges water to the storm drain. The best management practices required to be used by the Contractor shall be as follows:

a) Contractor shall not be allowed to wash down A.C. saw cuttings into the storm drain. Contractor shall vacuum and dispose of A.C. saw cuttings to an approved location.
b) Contractor shall install and maintain sandbag de-silting basins around each catch basin in the construction area. Contractor shall be required to remove trapped sediment to an approved location a minimum of once a week or sooner if flow is impeded.
c) Contractor shall de-chlorinate with sodium thiosulfate any chlorinated water that is discharged from the pipelines during the entire construction period.
d) Contractor shall regularly sweep the construction area to prevent dirt and rocks from entering the storm drain system.

VI. MAINTENANCE RECORD KEEPING

Contractor shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and district rules and ordinances related to services provided under this Agreement. Contractor shall maintain records for a period of at least 3 years after receipt of final payment under this Agreement.

CVWD shall have the right to examine, monitor and audit all records, documents, conditions, and activities of the Contractor and its subcontractors related to services under this Agreement. Pursuant to

Government Code Section 8546.7, if this Agreement involves the expenditure of public funds in excess of $10,000, the Parties to this Agreement may be subject, at the request of the district or as part of any audit of the District, to the examination and audit of a third party Auditor pertaining to matters connected with the performance of this Agreement for a period of three years after final payment under the Agreement.

VII. GENERAL CONTRACT REQUIREMENTS

1) HOURS OF LABOR

Contractor shall forfeit as a penalty to Owner the maximum amount provided by statute for each worker employed in the execution of the contract by the Contractor or any of their subcontractors for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provisions of the Labor Code and, in particular, Section 1810 to Section 1815 thereof, inclusive, except that work performed by employees of Contractors in excess of eight (8) hours per day and forty (40) hours during any one week shall be permitted upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one-half times the basic rate of pay as provided in Section 1815.

2) APPROVAL OF SCOPE OF WORK

The Contractor shall submit a scope of work, including a cost estimate for performance, to the District, in writing. District staff will review the scope of work and respond, in writing, in regard to any changes in scope. The Contractor shall do and perform such work and furnish such materials and equipment. Such labor, materials, and/or equipment shall be ordered in writing before such work is started. No work shall be paid for unless ordered in writing.

The District's Representative may order minor changes in the Work not involving an increase or decrease in the contract amount, not involving a change in the time for completion, and not inconsistent with the purposes for which the Work is being constructed. If the Contractor believes that any order for minor changes in the Work involves changes in the contract amount or time for completion, they shall not proceed with the minor changes so ordered and shall within seven (7) days of the receipt of such order notify the Owner's Representative in writing of their estimate of the changes in the contract amount and time for completion they believe to be appropriate.

3) PREVAILING WAGE

The Contractor shall comply with Labor Code Section 1775. In accordance with said Section 1775, the Contractor shall forfeit as a penalty to the Owner, a penalty of up to $200 per day per worker, in such amount as the Labor Commissioner shall determine for each calendar day or portion thereof for each worker paid less than the stipulated prevailing rates for such work or craft in which such worker is employed for any work done under the contract by them or by any subcontractor under them in violation of the provisions of the Labor Code and, in particular, Labor Code Sections 1770 to 1780, inclusive. In addition to said penalty and pursuant to said Section 1775, the difference between such stipulated prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the stipulated prevailing wage rate shall be paid to each worker by the Contractor. Moreover, failure to pay the prevailing wage may subject the Contractor to debarment, as provided in Labor Code Section 1777.1.

Failure to pay workers at the appropriate overtime rate for work of more than 8 hours per day or 40 hours per week, shall incur a penalty pursuant to Labor Code Section 1813 of $25 per day per worker.

4) CONTRACTOR'S RESPONSIBILITY FOR THE WORK

Until the acceptance of the Work, the Contractor shall have the responsible charge and care of the Work and of the materials to be used therein (including materials for which partial payment has been made or materials which have been furnished by the Owner) and shall bear the risk of injury, loss, or damage to

any part thereof by the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the Work.

The Contractor shall rebuild, repair, restore, and make good all damage to any portion of the Work or the materials occasioned by any cause before its completion and acceptance and shall bear the expense thereof. Where necessary to protect the Work or materials from damage, the Contractor shall, at their expense, provide suitable drainage and erect such temporary structures as are necessary to protect the Work or materials from damage. The suspension of the Work or the granting of an extension of time from any cause whatever shall not relieve the Contractor of the responsibility for the Work and materials as herein specified.

In an emergency affecting the safety of life or property, including adjoining property, the Contractor, without special instructions or authorizations, is authorized to act at their discretion to prevent such threatened loss or injury.

5) INSPECTION AND TESTS OF MATERIALS

A. Readiness for Inspection

The Contractor shall furnish the Owner full information as to the progress of the work in its various parts and shall give the Owner timely notice of the Contractor's readiness for inspection. When practicable, inspection will be made during the manufacture of articles. The Contractor shall furnish, without additional charge, all reasonable facilities and assistance for the safe and convenient inspection and tests required by the Owner.

B. Final Inspection and Acceptance

Final inspections and acceptance of the articles or materials may be made after delivery at the work site at the Owner's expense. In the event that any material at the work site is rejected on account of failure to pass the inspection or test, the Contractor shall replace same promptly. Final inspection will be made as promptly as practicable but may not in all cases be made prior to erection or final assembly.

C. Right to Reject Articles and/or Materials

The Owner shall have the right at all times and places to reject articles and/or materials to be furnished hereunder which in any respect fail to meet the requirements of the specifications, regardless of whether the defects in such articles or materials are detected at the point of manufacture or after completion of the work at the site.

If the inspector, through an oversight or otherwise, has accepted material or work which is defective or which is contrary to the specifications, such materials, no matter in what state or condition of manufacture, delivery or erection, may be rejected by the Owner.

Compliance with the specifications is distinctly a duty of the Contractor and shall not be avoided by act or omission on the part of the Owner's inspector.

6) SUB-CONTRACTING

The Contractor may utilize the services of specialty sub-contractors on those parts of the work that, under normal contracting practices, are performed by specialty sub-contractors. Unless a specific sub-contractor is listed by Contractor, Contractor is representing to District that Contractor has all appropriate licenses, certifications, and registrations to perform the work hereunder. After submission of his/her proposal, the Contractor shall not award work to any unlisted subcontractor(s) without prior written approval of the District. The Contractor shall be fully responsible to the District for the performance of his/her sub-contractors and of persons either directly or indirectly employed by them.

7) TAXES

The Contractor shall pay all sales, consumer, use, and other taxes.

8) CLAIMS

As provided in Public Contract Code Sections 20104, et seq., claims by the Contractor shall be in writing and include the documents necessary to substantiate the claim. Prior to submitting a claim under this Section 3-9, the Contractor shall comply with all applicable notification requirements under the Contract Documents. All claims must be filed with the Owner on or before the date of final payment.

For claims of less than fifty thousand dollars ($50,000.00), the Owner shall respond in writing to any written claim within forty-five (45) days of receipt of the claim, or may request, in writing, within thirty (30) days of receipt of the claim any additional documentation supporting the claim or relating to defenses to the claims the Owner may have against the Contractor. The Owner's written response to the claim shall be submitted to the Contractor within fifteen (15) days after receipt of the further documentation or within a period of time no greater than that taken by the Contractor in producing the additional information, whichever is greater.

For Claims of over fifty thousand dollars ($50,000) and less than or equal to three hundred seventy-five thousand dollars ($375,000), the Owner shall respond in writing to all written claims within sixty (60) days of receipt of the claim, or may request, in writing, within thirty (30) days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the Owner may have against the Contractor. The Owner's written response to the claim shall be submitted to the Contractor within thirty (30) days after receipt of the further documentation, or within a period of time no greater than that taken by the claimant in producing the additional information or request documentation, whichever is greater.

If the Contractor disputes the Owner's written response, or the Owner fails to respond within the time prescribed, the Contractor may so notify the Owner, in writing, either within fifteen (15) days of receipt of the Owner's response or within fifteen (15) days of the Owner's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the Owner shall schedule a meet and confer conference within thirty (30) days for settlement of the dispute. Submittal

9) PROTESTS

If the Contractor considers any work required by the Owner to be outside the requirements of the Contract Documents, or if the Contractor considers any record or ruling of the Owner, the Owner's Representative or any governmental inspector to be unfair, the Contractor shall immediately upon such work being demanded or such record or ruling being made, ask for written instructions or decision, and within ten (10) days after receipt thereof file a written protest with the Owner, setting forth each objection and the reasons therefor. The Contractor shall, whether or not a written protest will be filed, immediately upon receipt of written instructions or decision proceed without delay to perform the work or conform to the record or ruling. The Contractor hereby agrees that, unless a specific objection or protest has been made as provided herein, the Contractor waives all grounds for protests or objections to the records, rulings2, instructions, or decisions of the Owner or the Owner's Representative, and further agrees that as to all matters not included in such objections or protests the records, instructions and decisions of the Owner or Owner's Representative shall be final and conclusive. Such protests shall proceed in accordance with the procedures set forth in Section 3-9 entitled CLAIMS.

10) QUALITY AND SAFETY OF MATERIALS AND EQUIPMENT

All equipment, materials, and supplies to be incorporated in the Work shall be new, unless otherwise specified. All equipment, materials, and supplies shall be produced in a good and workmanlike manner. When the quality of a material, process, or article is not specifically set forth in the plans and specifications, the best available quality of the material, process, or article shall be provided.

Whenever any material, process, or article is indicated or specified by grade, patent or proprietary name, or by name of manufacturer, such specification is for the purpose of facilitating description of the

materials, process, or articles desired and the Contractor may offer any material, process, or article which shall be substantially equal or better in every respect to that indicated or specified; provided, however, that if the material, process, or article offered by the Contractor is not, in the sole discretion of the Owner, equal or better in every respect to that specified, then the Contractor must furnish the material, process, or article specified or one that in the sole discretion of the Owner is the substantial equal or better in every respect. If the Contractor-furnished material, process, or article is more expensive than that specified, or involves additional labor or other cost, then such difference in cost shall be borne by the Contractor.

In accord with Section 3400 of the Public Contract Code, the Contractor shall submit data substantiating requests for substitution of "equal" items within thirty (30) days after award of the contract. This 30-day period is included in number of days allowed for completion of Work.

11) SAFETY AND PUBLIC CONVENIENCE

The Contractor shall conduct their operations to avoid injury or damage to any person or property, and to minimize any obstruction and inconvenience to the public. The Contractor shall comply with the requirements of the Contract Documents relating to safety measures applicable in particular operations or kinds of work. The Contractor shall have under construction no greater amount of Work than can be prosecuted properly with due regard to the rights and safety of the public and the workers.

In accordance with generally accepted construction practices, the Contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the Work, and the Contractor shall fully comply with all state, federal and other laws, rules, regulations, and orders relating to safety of the public and workers, including State of California, Division of Industrial Safety (Cal/OSHA) regulations. Safety precautions as applicable shall include, but not be limited to, adequate life protection and lifesaving equipment; adequate illumination for underground and night operations; instructions in accident prevention for all employees such as machinery guards, safe walkways, scaffolds, ladders, bridges, gang planks, confined space procedures, trenching and shoring, and other safety devices, equipment and wearing apparel as are necessary or lawfully required to prevent accident or injuries; and adequate facilities for the proper inspection and maintenance of all safety measures.

The names and telephone numbers of at least two medical doctors practicing in the vicinity and the telephone number of the local ambulance service shall be prominently displayed adjacent to telephones.

The right of the Engineer or the Owner's Representative to conduct construction review or observation of the Contractor's performance will not include review or observation of the adequacy of the Contractor's safety measures in, on, or near the site of the Work. However, in the event that the Owner determines that the Contractor has failed to ensure the safety of the public and the workers or has failed to take reasonable steps to protect the workers and the public, the Owner may give the Contractor 72-hours written notice to take appropriate action to ensure their safety. In the event the Contractor fails to comply, and the Owner takes such steps as are reasonably necessary to ensure the safety and protection of the public and the workers, the Contractor shall pay the cost and expenses incurred in taking such action.

12) NON-COLLUSION AFFIDAVITS

In accordance with the provisions of Section 7106 of the Public Contract Code, each bidder shall execute and submit with their bid a Non-Collusion Affidavit in the form attached to the Proposal. Additionally, the principal contractor shall secure from each proposed subcontractor a Non-Collusion Affidavit in the form attached to the Proposal.

VIII. PROPOSAL REQUIREMENTS

1) ANNUAL SCOPE OF NON-EMERGENCY SERVICES, FY 23/24

Under this current contract CVWD plans to rehabilitate one of its production wells, Well 14, and intends to perform the planned replacement of Booster A and Booster B at the Mills WTP with the standard SOWs presented here. Please submit a scope of work and cost estimate as part of the response to this request for proposal.

Familiarity with Work: By executing this Agreement, Contractor represents that: (1) it has investigated the work to be performed; (2) it has investigated the site of the work and is aware of all conditions there; and (3) it understands the difficulties and restrictions of the work under this Agreement. Should Contractor discover any conditions materially differing from those inherent in the work or as represented by District, it shall immediately inform District and shall not proceed, except at Contractor's risk, until written instructions or submittal approvals are provided by District.

Well 14: A well log and as built have been included with this year's annual maintenance. Please submit a proposal detailing the work to be performed and provide a quote for the performance of said work.

Booster A & B at Mills WTP: An as built has been included with this year's annual maintenance. Please submit a proposal detailing the work to be performed and provide a quote for the performance of said work. Mills Booster A scope of work is limited to upgrading the existing motor to a VFD while Mills Booster B scope of work will be limited to a pump replacement.

2) ADDITIONAL WELL REHABILITATION PROPOSALS

For all proposed rehabilitation work the Contractor shall submit a written report to CVWD stating the total well depth, current water level, general condition of component parts, and recommendations for repairs and/or replacements from the options provided above.

This report shall contain an itemized labor and material cost estimate of any necessary repairs to the well casing, well pump, electrical wiring, and any app and a proposed schedule for the completion of the work.

3) ADDITIONAL BOOSTER PUMP REPAIR/REHABILITATION PROPOSAL

Contractor shall submit a written proposal to CVWD stating the general condition of component parts, recommendations for repairs and for replacements, and the advisability of pump rehabilitation.

This proposal shall contain an itemized labor and material cost estimate of any necessary repairs to, or replacement of, any of the component parts, and a proposed schedule for the completion of the work.

4) REQUIRED STATEMENTS

A statement that all charges for services will be a "Not-To-Exceed" fee, as submitted with and made part of said contractor's cost proposal.

A copy of the contractor's hourly rate schedule and a written statement that states hourly rate schedule is part of the contractor's cost proposal for use in invoicing for progress payments and for extra work incurred that is not part of this RFP.

A written statement by the contractor that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In case of conflict between federal, state, or local laws or regulations, the strictest shall be adhered to.

A written statement by the contractor shall allow all authorized federal, state, county, and City officials access to place of work, books, documents, papers, fiscal, payroll materials, and other relevant contract records pertinent to this project. All relevant records shall be retained for at least three (3) years.

A sample of record keeping practices for both wells and booster pumps.

Provide at least three (3) references, past and present, using the same service being proposed and indicate the scope of work, date, and the name, email address, and telephone number of the client contact. Also, provide a complete list of other municipalities in California utilizing your services over the past five (5) years.

A current California contractor class “A” license and a current California C-57 license shall be included with proposal submittal. Include any other licenses as appropriate.

A written statement that the contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

A written statement that the contractor shall comply with the California Labor Code pursuant to said regulations entitled: Federal Labor Standards provisions; Federal Prevailing Wage Decision; and State of California Prevailing Wage Rates, respectively.

A written statement that the contractor shall comply with the Copeland Anti-kickback Act (18 USC 874 C) and the implementation regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.

CRESCENTA VALLEY WATER DISTRICT
STAFF REPORT

Information Item No. 7

To: Engineering and Operations Committee — September 8, 2023

From: Brook Yared, M.S., P.E. – Interim Director of Engineering & Operations

Subject: Status Update - FY 22/23 Capital Improvement Project Budget

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DISCUSSION:

The following is a status and budget update of the FY 22/23 Capital Improvement Program.

1. **2600 & 2700 Block of Orange & 5000 Block of El Adobe (E-1046)**
   a. Construction began June in 2022
   b. Construction completion by early October

FY 2022/23 CIP Program Cost Update: 6/30/23	E-Job	Recorded FY 21/22	Budget FY 22/23	*FY 22/23 Cost to date from 7/1/22 to 6/30/23*	Projected FY 23/34
2600 & 2700 Block of Orange & 5000 Block of El Adobe - 2700 LF	**E-1046**	**$ 1,748**	**$ 1,350,050**	**$ 392,301**	**$ 979,700**

2. **Transfer of Services to Glendale Water and Power (E-1051)**
   a. Transfer of Services on Frederick and Thelma to Glendale Water and Power to avoid capital replacement.
   b. Work is planned to begin with Glendale in October 2023.

3. **Steel Reservoir Rehabilitation**
   a. Edmund No. 2 (E-1036)
      i. Warranty Inspection Complete
      ii. Cathodic Protection Activated
      iii. Scheduling Warranty Repairs
   b. Goss Canyon No. 1 (E-1053)
      i. Pending Final PPE and Retention
      ii. Rehabilitation Complete July 7, 2023
      iii. Performing required sampling before returning to service

FY 2022/23 CIP Program Cost Update: 6/30/23	E-Job	Recorded FY 21/22	Budget FY 22/23	*FY 22/23 Cost to date from 7/1/22 to 6/30/23*
Edmund #2 - Reservoir Rehabilitation	**E-1036**	**$ 688,900**	**$ 53,772**	**$ 3,200**
Goss Canyon #1 - Reservoir Rehabilitation	**E-1053**	**$ -**	**$ 800,000**	**$ 502,885**

4. **Replacement of SCADA Equipment, Programming & Integration (E-939)**
   a. Project Schedule – April 2022 to January 2024
   b. APEX – Programming & Integration
      i. Sites Completed – Wells 5, 7, 8, 9, 11, 14 & 16
      ii. Ramsdell Mixing Station & Glendale/CVWD Interconnection
      iii. Encinal Reservoir
      iv. Glenwood Plant with Wells 6, 10, 12 & 15
      v. Mills Plant with Well 1
   c. Sites Pending Integration (2023)
      i. Paschall Booster Station

ii. Rosemont Reservoir
iii. Assisting with Chloramine Conversion Control Strategy Implementation
iv. Implementing controls for Well 2 permit revision

d. Radio Communication Upgrade – Moved to FY 23/24

FY 2022/23 CIP Program Cost Update: 6/30/23	E-Job	Recorded FY 21/22	Budget FY 22/23	*FY 22/23 Cost to date from 7/1/22 to 6/30/23*
Communication Radio Network	**E-1025**	**$ 17,610**	**$ 50,000**	**$ -**
SCADA Replacement - Installation	**E-939**		**$ 395,000**	**$ 274,566**

5. AMI – Installation of ¾" & 1" meters (E-1035)

a. Purchasing Materials for Zones 9, 10 & 11
b. Currently 228 customers are waiting to be configured for the Customer Engagement Platform
c. 211 are active on the Customer Engagement Platform
d. Approximately 7110 radios and lids to install/replace
e. 160, ¾ & 1-inch meters including laterals to replace

6. AMI – Installation of 3" & 4" meters (E-1031) – USBR Grant

a. Install and connect 32 – 3" & 4" meters – Construction complete by August 2023
b. 1-1/2-inch meter installation – Grant awarded in late 22/23, construction deferred to FY 23/24

FY 2022/23 CIP Program Cost Update: 6/30/23	E-Job	Recorded FY 21/22	Budget FY 22/23	*FY 22/23 Cost to date from 7/1/22 to 6/30/23*
AMI - Communication	**E-1020**	**$ 111,847**	**$ -**	**$ 29,700**
GRANT - 3" & 4" Smart Meters	**E-1031**	**$ 58,122**	**$ 144,000**	**$ 16,343**
AMI - Meter Lids - Zones 9, 10 & 11	**E-1035**	**$ -**	**$ 220,000**	**$ 148,285**
GRANT - 1-1/2" Smart Meters - USBR Grant	**E-1041**	**$ 1,664**	**$ 335,000**	**$ -**

7. Conversion of Disinfection System to Chloramines (E-1052)

a. Proposal Received from Water Quality and Treatment Solutions – $83,980

FY 2022/23 CIP Program Cost Update: 6/30/23	E-Job	Recorded FY 21/22	Budget FY 22/23	*FY 22/23 Cost to date from 7/1/22 to 6/30/23*
Conversion to Chloramination	**E-995/ E-1052**	**$ -**	**$ 100,000**	**$ 29,590**

8. Grant Funding Opportunities

a. FEMA Local Hazard Mitigation Plan (M-1004)

i. Project 1 – New emergency electrical generators at 5 sites - Deferred pending Grant availability.
ii. Project 2 – Seismic Evaluation of CVWD's facilities application – Deferred pending Grant availability.
iii. Carl Moyer Grant – New Dump Truck, pending response from SCAQMD
iv. Water Recycling Grant – Application Submitted July 10, 2023

9. **New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station (E-977)**
   a. Hydraulic Modeling Review Complete
   b. Installation of two fire hydrants to provide additional bypass options to Zone 1 – FY 23/24

FY 2022/23 CIP Program Cost Update: 3/1/23	E-Job	Recorded FY 21/22	Budget FY 22/23	*FY 22/23 Cost to date from 7/1/22 to 6/30/23*
Upgrade - Ramsdell Mixing Station	**E-977**	**$ 48,594**	**$ 49,310**	**$ 7,645**

10. **Well 2**
    a. Developing permit amendment for a bypass option to avoid repairs to the Biological Nitrate Removal Facility. PFAS issue discussion.

11. **Well 9 Rehabilitation**
    a. Complete, back in operation

12. **Well 14 Failure**
    a. Work performed under 22/23 Emergency Services
    b. Rehabilitation of Well 14 was budgeted for FY 23/24

13. **Paschall Booster B**
    a. Cooling Sleeve detached causing premature failure.
    b. Rental Pump being Order to increase well production from Wells 1, 7, & 9

14. **Wastewater Master Plan**
    a. GIS and Wastewater model demonstration – August 23, 2023, Final submission received
    b. QA/QC in progress

SUMMARY:
Staff will develop on going CIP updates for FY 23/24 starting in October after Q1 of the fiscal year ends.

Prepared & submitted by:

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Interim Director of Engineering & Operations

Attachments: None

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