

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 14, 2021, at 7:00 p.m.
Posted: Thursday, September 9, 2021, at 4:30 p.m.**

AUDIO & VIDEO CONFERENCING NOTICE

[This meeting will be held by audio & video conference only.]

Pursuant to the provisions of Executive Order N-08-21 issued by Governor Gavin Newsom on June 11, 2021, a local legislative body is authorized to hold public meetings via teleconference.

Any member of the public may participate 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: 845 0184 8904

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/84501848904>

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 Christy Colby, Regulatory and Public Affairs Manager, at (818) 248-3925 or customerservice@cvwd.com by 3pm on September 14, 2021.

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 24, 2021.

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. **Advertise for Bids for Steel Reservoir Rehabilitation of Edmund #2 Reservoir, Project E-1036** – Consideration and motion to authorize the General Manager to advertise for bids for steel reservoir rehabilitation at Rosemont Reservoir with an engineer's construction estimate of \$511,600 and to find said project exempt from the provisions of the California Environmental Quality Act (CEQA).
2. **High School Student Career Development and Leadership Program** – Consideration and motion to authorize the General Manager to implement a community stewardship program at a cost of \$5,000 to promote water education and careers in the water industry.
3. **Budget Schedule & Proposition 218 Process** - Placeholder for discussion and possible action for schedule, timing, and other considerations related to completing the budget and Proposition 218.

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 - none

Adjournment

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CRESCENTA VALLEY WATER DISTRICT
ADJOURNED REGULAR MEETING, BOARD OF DIRECTORS

August 24, 2021

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District made at the Adjourned Regular Meeting on July 27, 2021, an Adjourned Regular Meeting was held on August 24, 2021, at 7:00 p.m. through audio and video conference. A call-in number was clearly noted on the meeting Agenda, posted in accordance with the Brown Act, due to the COVID-19 pandemic, with President Sharon S. Raghavachary presiding.

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

Directors:
Sharon S. Raghavachary
James D. Bodnar
Kerry D. Erickson
Ken R. Putnam
Judy L. Tejeda

Attorney: **Thomas Bunn**

General Manager: **Nem Ochoa**

Director of Finance & Administration: **James Lee**

Director of Operations & Engineering: **David Gould**

Staff Members:
Brook Yared, Engineering Manager
Arturo Montes, Finance & Administration Manager
Christy Colby, Regulatory & Public Affairs Manager
Wendy Holloway, Customer Service Manager
Tessa Allmon, Customer Service Representative
Darlene Telles, Operations & Maintenance Manager
Kellen Boyce, Productions Manager
Pam Leddy, Administrative Assistant

Guests: **Alex Brown, WaterSmart**

Public Participation:
Frank Colcord
Marilyn Tyler

PLEDGE OF ALLEGIANCE

Mr. Ochoa 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 5-0 roll call vote that the Agenda for the Adjourned Regular Meeting of August 24, 2021, be adopted as presented.

AYES: **Director Raghavachary**
Director Bodnar

Director Erickson
Director Putnam
Director Tejeda

NOES: None

PUBLIC COMMENTS – None

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Mr. Colcord reported that last week the Metropolitan Water District (Metropolitan) declared a Stage 2 Water Supply Alert, citing the deepening drought throughout California and Metropolitan's diminishing allocation from the State Water Project. Mr. Colcord stated that the Federal Bureau of Reclamations had declared the first-ever issuance of a Tier 1 shortage condition for the lower Colorado River Basin, which will cut water deliveries next year by up to 20% for some recipients of water from Lake Mead. Mr. Colcord announced that the Foothill Municipal Water District had declared a Stage 2 Water Supply shortage last week and fully supports CVWD staff's proposal to declare a Phase 2 water conservation order.

CONSENT CALENDAR

It was moved by Director Tejeda, seconded by Director Erickson, and carried by a 5-0 roll call vote to approve the Minutes of the Special Board Meeting held on July 20, 2021, and the Minutes of the Adjourned Regular Board Meeting held on July 27, 2021, through audio and video conference and to ratify the disbursements for July 2021 as presented.

Payment of demands against the Crescenta Valley Water District on or before July 2021, 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, Eight-Hundred, Nineteen Thousand, Eight-Hundred Thirty-Five Dollars and Seventeen Cents (1,819,835.17), which is composed of the individual items set forth herein.

AYES: Director Raghavachary
Director Bodnar
Director Erickson
Director Putnam
Director Tejeda

NOES: None

ACTION CALENDAR

Award of Contract for Procurement and Installation of AMI Customer Engagement Portal, Project E-1035 – Mr. Gould requested that the Board enter into an agreement with WaterSmart Software, Inc. for the procurement and installation of an AMI Customer Engagement Portal (CEP) by which District customers can monitor and manage their water consumption behavior. Mr. Gould provided the bid summary, which included bids from three (3) companies that provide customer engagement portal platforms for water agencies in Southern California. Mr. Gould stated that each of the companies made a presentation to CVWD's design team about their CEP platform, after which the overwhelming selection was WaterSmart.

Following discussion:

It was moved by Director Erickson, seconded by Director Tejeda, and carried by 5-0 roll call vote to authorize the General Manager to enter into an agreement with WaterSmart for the procurement and installation of AMI Customer Engagement Platform at a cost of \$36,786 and establish a contingency amount of \$3,679 (10% of contract) to cover the cost of unforeseen or additional work.

AYES: Director Raghavachary
Director Bodnar
Director Erickson
Director Putnam
Director Tejeda

NOES: None

Consideration and Motion to move the current Water Conservation Alert from Phase 1 “Blue” to Phase 2 “Green” – Ms. Colby reported on staff’s recommendation to move the present Water Conservation Alert from Phase 1, Blue to Phase 2, Green. Ms. Colby notated the most significant change in moving to Phase 2, Green alert would be limiting outdoor irrigation to odd or even days, based on the ending number of a customer’s address, rather than the current phase which allows for outdoor irrigation any day of the week.

Following discussion:

It was moved by Director Bodnar, seconded by Director Erickson, and carried by 5-0 roll call vote to approve a move to Phase 2 Green Water Supply Shortage on September 1, 2021, consistent with statewide and regional conservation efforts.

AYES: Director Raghavachary
Director Bodnar
Director Erickson
Director Putnam
Director Tejeda

NOES: None

City of Glendale Mutual Aid and Assistance Agreement – Mr. Gould reported that as part of CVWD’s 2020 Strategic Plan, staff has been steadily working towards the goal of reviewing and establishing mutual aid agreements. Mr. Gould stated the City of Glendale and CVWD have historically provided mutual aid to each other when requested and in response to emergencies and sewer overflows. However, there has been no formal agreement stipulating the parties’ obligations, liability provisions or terms of reimbursements. Mr. Gould provided the formal mutual aid agreement which had been reviewed by CVWD’s legal counsel.

Following discussion:

It was moved by Director Bodnar, seconded by Director Erickson, and carried by 5-0 roll call vote to authorize the General Manager to enter into a Mutual Aid and Assistance Agreement with the City of Glendale, Public Works Department.

AYES: Director Raghavachary
Director Bodnar
Director Erickson
Director Putnam
Director Tejada

NOES: None

Presentation of the Overview and History of CVWD's Wastewater Collection System, Part 2 – Mr. Gould and Mr. Yared presented a second part to the overview and history of CVWD's Wastewater Collection System.

Budget Schedule & Proposition 218 Process – Mr. Ochoa presented the FY 2021-22 CVWD Meeting Schedule relating to completing the budget and Proposition 218 process. Mr. Ochoa stated that as of today's date, the District had received four (4) protest letters regarding the Proposition 218 Notice.

INFORMATION ITEMS – None

WRITTEN COMMUNICATIONS TO DISTRICT – None

REPORTS OF PERSONNEL – No report

GENERAL MANAGER – Mr. Ochoa gave an overview of the State's drought impact and water supply conditions. Ms. Colby reported that the District would be creating a series of videos about the CVWD Water District and helpful how-to videos for the CVWD website. Ms. Colby announced that the first pipeline birthday event would be held on September 15, 2021, at Monte Vista Elementary School. Mr. Gould reported that water production was 44%/56% split and that 132.1 MG of water was produced for the month of July 2021. Mr. Gould highlighted the FY 20/21 & FY 21/20 Capital Improvement Projects, grant program, and developer projects. Mr. Lee provided highlights of the Finance and Administration Report for July 2021.

ATTORNEY – No report

REPORTS OF PERSONNEL – None

REPORTS OF COMMITTEES

Engineering Committee – Director Raghavachary reported that the Committee had not met; however, an audio/video conference meeting is scheduled for August 31, 2021.

Finance Committee – Director Raghavachary reported that the Committee had not met; however, an audio/video conference meeting will be scheduled as needed.

Employee Relations Committee – Director Bodnar reported that the Committee had not met; however, an audio/video conference will be scheduled as needed.

Policy Committee – Director Putnam reported that the Committee had not met; however, an audio/video conference will be scheduled as needed.

Community Relations/Water Conservation Committee – Director Erickson reported that the Committee had not met; however, an audio/video conference will be scheduled as needed.

Emergency Planning Committee – Director Tejeda reported that the Committee had not met; however, an audio/video conference meeting will be scheduled as needed.

Technology Committee – Director Erickson reported that the Committee had met on July 28, 2021. An audio/video conference meeting will be scheduled as needed.

Executive Committee – Director Raghavachary reported that the Committee had not met; however, an audio/video conference meeting will be scheduled as needed.

DIRECTORS' ORAL REPORTS

Director Raghavachary – No report

Director Bodnar – reported that he had recently completed hiking the John Muir Trail. Director Bodnar shared the importance of finding drinking water while hiking outdoors and stressed the importance of collectively providing water to our community, sharing his continued appreciation for all of the operational and infrastructure efforts and costs required to have water available for water taps at residences.

Director Erickson – reported that he had recently visited the newly refurbished Carpinteria Beach Campground. Director Erickson shared a few difficulties the contractors experienced during the remodeling process.

Director Putnam – No report

Director Tejeda – No report

BOARD MEMBERS' REQUESTS FOR FUTURE AGENDA ITEMS – None

CLOSED SESSION – None

ADJOURNMENT

There being no other business to come before the Board, at 9:10 p.m., the meeting was adjourned to September 14, 2021, at 7:00 p.m.

APPROVED

Sharon S. Raghavachary
President

James Lee
Director of Finance & Administration

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1
September 14, 2021

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – Director of Engineering and Operations
Subject: **Advertise for Bids Steel Reservoir Rehabilitation at Edmund No.2 Reservoir, Project E-1036**

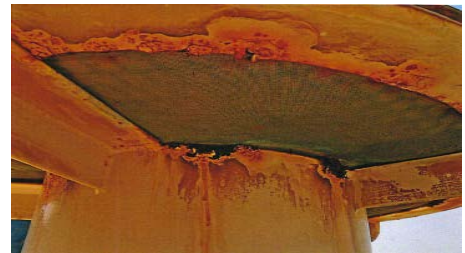
ACTION ITEM:

Steel Reservoir Rehabilitation at Edmund No.2 Reservoir, Project E-1036 – Consideration and motion to authorize the General Manager to advertise for bids for steel reservoir rehabilitation at Edmund No.2 Reservoir with an engineer's construction estimate of \$511,600 and to find said project exempt from the provisions of the California Environmental Quality Act (CEQA).

BACKGROUND:

Crescenta Valley Water District's (CVWD) Edmund No.2 Reservoir site is located at the top of Pine Glen Rd. and Ridgepine Dr. The steel tank was built in 1966 and has a capacity of 0.5 million gallons. In 1996, an assessment of the District's seventeen (17) reservoirs was performed by Harper & Associates Engineering, Inc. (Harper), and it was determined that the Edmund No.2 Reservoir needed to be re-coated to extend the life of the steel tank.

- In 1998, Edmund No.2 was re-coated and seismic structural upgrades were installed.
- In 2006, Edmund No.2 was inspected, it was discovered that there was advanced corrosion on the interior surface between the water line and the top of the roof.
- In 2011, Edmund No.2 was inspected as part of CVWD's reservoir maintenance program, and it was revealed that the advanced corrosion had drastically increased since 2006.
- In 2013, Edmund No.2 was inspected again, and the advanced corrosion had further spread through the rafters. Edmund No.2 was added to the list of reservoirs that need to be re-coated as part of the annual CIP program.
- In 2020, Harper inspected Edmund No.2 as part of the design work required prior to developing plans and specifications (see photos).



DISCUSSION:

Harper completed preparation of the construction plans and specifications for the rehabilitation of Edmund No.2 Reservoir that included the following:

- Removal and replacement of structural steel braces and tie rods for seismic reinforcement of the roof;
- New safety guard rails on the roof and new stairway;
- Sandblasting and removal of the existing interior and floor coating;
- Re-coating the interior with a 100% solids epoxy coating;
- Application of a new 100% solids epoxy coating system on the floor;
- Installation of additional roof ventilation with fans to increase air circulation and reduce the amount of chlorine vapor inside the reservoir; and
- New sampling ports and sacrificial anodes for corrosion protection and other appurtenances.

RECOMMENDATION:

Staff recommends that the Board authorize the General Manager to advertise for bids for the Steel Reservoir Rehabilitation at Edmund No.2 Reservoir at an engineer's construction estimate of \$511,600.

The project schedule is to advertise for bids in September 2021, award the contract in October 2021, and start construction in November 2021. Staff anticipates the project would be completed by the end of March 2022.

Christina Olmedo will be the project manager during construction. Harper will provide specialty inspection for the structural work and the re-coating process. Staff will be requesting a proposal from Harper to provide quality control inspection services as well.

ENVIRONMENTAL REVIEW:

This project is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines. This exemption covers the repair of existing facilities involving negligible or no expansion of existing use.

FUNDING AVAILABILITY:

There are sufficient funds available in the following account for the project:

Account Description	Amount
FY 20/21 Water CIP– Water Storage	\$590,000
Preliminary Cost Estimate for Contractor	<\$511,600>
Additional costs such as specialty inspection costs, construction administration costs, & dehumidification equipment	<\$99,650>
Contingency	<\$61,125>
Total Cost Estimate	<\$672,375 >
Amount Remaining in Water CIP – Water Storage	(\$82,375)

Prepared by:



Christina Olmedo
Assistant Engineer

Submitted by:



David S. Gould, P.E.
Director of Engineering and Operations

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
September 14, 2021

To: Honorable President and Members of the Board of Directors
From: Nem Ochoa, P.E. – General Manager
Subject: High School Student Career Development and Leadership Program

ACTION ITEM:

High School Student Career Development and Leadership Program - Consideration and motion to authorize the General Manager to implement a community stewardship program at a cost of \$5,000 to promote water education and careers in the water industry.

BACKGROUND:

The 2020 Strategic Plan established several goals including:

- Develop and implement an outreach plan to increase water awareness
- Develop and implement community stewardship programs to improve community relations

Staff has developed a program to meet these goals while accomplishing our operational objectives and mission. The program will reach out to high school students in the CVWD service area who want to learn and gain first-hand experience in the water industry; specifically, in how CVWD operates and accomplishes its mission on a day-to-day basis. Selected students will get an overview of CVWD's operations and assist and shadow district personnel.

Upon completion of the program, the student will be given:

- \$500 scholarship towards higher education
- A letter of recommendation from CVWD verifying work-experience and volunteer hours
- An opportunity to engage highly skilled professionals and technicians in Accounting, Customer-Service, Construction, Engineering, Facilities Maintenance, Finance, Operations, and Water Quality
- Leadership training and workshop
- Q&A session with CVWD staff to explore potential careers in the water industry

Program Requirements:

- Complete 80 hours of work experience
- Hours to be flexible to accommodate academic commitments
- Hours must be completed during normal work hours or during planned public outreach events
- Student to maintain a passing grade in all high school classes
- Application and documents to be completed and submitted by September 30th
- Student to prepare and present a presentation describing their experience and takeaways of the Program

DISCUSSION:

Program participants will be selected on a first-come, first-serve basis. Given the \$5,000 budget, the first 10 applicants who submit a letter of interest and complete the waiver of liability agreement will be accepted into the program. The specified budget amount covers the issuance of ten \$500 scholarships.

RECOMMENDATION:

Authorize the General Manager to implement the program at an estimated cost of \$5,000.

ENVIRONMENTAL REVIEW:

N/A

FUNDING AVAILABILITY:

There are sufficient funds available in the Public Affairs account for these services.

Submitted by:



Nem Ochoa
General Manager

Attachments:

1. High School Student Program Flyer
2. High School Student Program Minor Volunteer Permission, Release, and Waiver of Liability Agreement

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Career Development Program for HIGH SCHOOL STUDENTS



Have you ever wondered how far water needs to travel to get to your faucet or where the stuff in your toilet goes after you flush?

We often take these daily occurrences for granted and we assume the resources and infrastructure needed to provide water and wastewater services will always be there. You might also wonder...who or what entity ensures that you'll always have access to safe drinking water and that sewage you create will be safely diverted away from your home and treated in an environmentally responsible manner. Crescenta Valley Water District (CVWD) takes great pride in providing these critical functions to the community.



Our Mission, Our Vision...

Our **mission** is to provide quality water and wastewater services to the Crescenta Valley community in a dependable and economically responsible manner; and

Our **vision** is to secure sustainable water supplies and ensure infrastructure reliability, while furthering our commitment to accountability, transparency, and cost-effectiveness.

We are able to meet our mission and strive towards our vision through the hard work and collaboration of a highly skilled workforce. Each member of the CVWD team plays an important role in providing essential services to this community. Experts in the following disciplines allow us to be highly effective and efficient in what we do:

- | | | | |
|---------------------|--------------------------|--------------------------|--------------------|
| 💧 Accounting | 💧 Engineering | 💧 Information Technology | 💧 Water Operations |
| 💧 Construction | 💧 Facilities Maintenance | 💧 Procurement | 💧 Sewer Operations |
| 💧 Customer Service | 💧 Finance | 💧 Project Management | 💧 Water Quality |
| 💧 Emergency Repairs | 💧 Human Resources | 💧 Regulatory Compliance | 💧 Water Treatment |

CVWD is excited to announce:

CVWD is reaching out to high school students in our service area who want to learn and gain first-hand experience in the Water Industry; specifically, in how CVWD operates and accomplishes its mission on a day-to-day basis.

Selected students will get an overview of CVWD's operations, and assist and shadow personnel that work in the disciplines shown above.

Upon completion of the program, the student will be given:

- \$500 scholarship towards higher education
- A letter of recommendation from CVWD verifying work experience and volunteer hours
- An opportunity to engage highly skilled professionals and technicians in Accounting, Customer-Service, Construction, Engineering, Facilities Maintenance, Finance, Operations, and Water Quality
- Leadership training and workshop
- Q&A session with CVWD staff to explore potential careers in the Water Industry

Program Requirements:

- Complete 80 hours of work experience
- Hours are flexible to accommodate academic commitments
- Hours must be completed during normal work hours or during planned public outreach events
- Student must maintain a passing grade in all high school classes
- Application and documents must be completed and submitted by September 30th, 2021
- Student must prepare and present a presentation describing their experience and takeaways of the program

Visit www.CVWD.com for more information

Attachment 2

CRESCENTA VALLEY WATER DISTRICT MINOR VOLUNTEER PERMISSION, RELEASE, AND WAIVER OF LIABILITY AGREEMENT

In consideration for permitting the minor volunteer named below ("Volunteer") to participate in the volunteer activities ("Volunteer Activities") of the Crescenta Valley Water District ("District"), the undersigned parent(s) or legal guardian(s) of the Volunteer, on behalf of their heirs, executors, administrators and assigns, and on behalf of the Volunteer, hereby agree to the following terms and conditions ("Agreement"):

1. **Voluntary Participation.** I give permission for the Volunteer to participate in the Volunteer Activities. I understand that Volunteer's participation in any Volunteer Activity covered by this Agreement is strictly voluntary. I and Volunteer further understand and agree that the scope of Volunteer's relationship with the District is limited to a volunteer position. Volunteer is not an employee of the District and will not receive and should not expect to receive any compensation or benefits of any kind in exchange for performing services at or on behalf of the District.
2. **Rules and Policies of the District.** Volunteer acknowledges and agrees to abide by the District's policies, guidelines, handbook, rules, and all volunteer requirements and policies. The Volunteer recognizes and agrees that they are responsible for minimizing risk through responsible behavior. This includes adherence to the District's policies, guidelines, handbook, rules, and directions. I acknowledge that, even if Volunteer follows all directions, instructions, and rules and exercises utmost personal care, a certain irreducible inherent risk in the Volunteer Activities shall remain, and I hereby accept that risk.
3. **Description of Volunteer Activities.** I understand and agree that Volunteer Activities may include, but are not limited to, participation in the following activities:
 - a. Engaging and interacting with District employees and members of the public;
 - b. Assist in preparing and disseminating public outreach material utilizing District's social media platforms;
 - c. Assist in various water education and public outreach projects;
 - d. Clerical tasks requiring the use of office equipment;
 - e. Data entry for various business related or water operation related tasks;
 - f. Assist in counting and inventory of parts and equipment stored at various sites located within the District;
 - g. Observing various operational and construction activities from a safe distance;
 - h. Participate in career development and leadership workshops tailored for students;
 - i. Being a passenger in District vehicles;
 - j. Preparing and presenting information using Microsoft PowerPoint and other programs; and
 - k. Conducting light research on the internet using District computers and network.

In addition to these specific activities, Volunteer activities may include activities such as: extended standing, walking, lifting, carrying; exposure to indoor environments; exposure to outdoor environments (including cool, hot, and wet weather); exposure and interactions with members of the public; use of office supplies (e.g., scissors or box cutters); traveling to and from worksites in various modes of transportation (e.g., cars, bikes, scooters, public transport), and being in or around water treatment facilities, equipment, and substances.

4. **Assumption of Risk.** I understand and acknowledge that there are certain risks inherent in Volunteer's participating in the Volunteer Activities. I understand and acknowledge that the Volunteer Activities may be dangerous and carry with them certain inherent risks, including risks that may not be obvious, and that cannot reasonably be eliminated regardless of the care taken to avoid injuries. The specific risks vary from one activity to another, but the risks may include, and are not limited to: dangers inherent to being in confined indoor spaces; dangers inherent in exposure to the sun for an extended period of time, or being outside during high temperatures, such as dehydration, heat stroke, and sunburns; minor injuries such as scratches, bruises, cuts, and sprains; property damage; theft; risks of contracting communicable diseases, illnesses or viruses, including, but not limited to, COVID-19; major injuries such as emotional trauma, eye injury or loss of sight, joint or back injuries, broken bones, brain injury and concussions; and catastrophic injuries, including permanent disability, paralysis, and death. I understand that these injuries or outcomes may arise from Volunteer's or other's actions, inaction, or negligence, conditions related to travel, or the condition of the Volunteer Activity's location. Nonetheless, I acknowledge and expressly assume all risks and dangers associated with the Volunteer Activities (including travel to, from and during any Volunteer Activity), whether described above, known or unknown, and inherent or otherwise. I take full responsibility for any injury or loss, including death, which Volunteer may suffer, arising in whole or in part from the Volunteer's participation in the Volunteer Activities.
5. **Voluntary Release.** I voluntarily release, waive, relinquish, and discharge and hold harmless the District and its current and former employees, directors, officers, agents, volunteers, successors, governing body, insurers, and assigns ("Releasees") from any and all liability, claims, and demands of whatever kind or nature, either in law or in equity, resulting from ordinary negligence that arise out of, or relate to, Volunteer's participation in the Volunteer Activities, including, but not limited to, claims for bodily injury, personal injury, emotional distress, illness, first-aid treatment, medical services, property damage, or wrongful death. It is the intent of this Agreement to relieve the Releasees from negligence to the greatest extent permitted by law.
6. **Indemnification.** To the fullest extent permitted by law, I agree to indemnify, defend, and hold harmless the Releasees against any and all causes of action, losses, damages, injuries, liability, claims, expenses (including attorneys' fees and costs), and demands ("Claims") arising out of or in any way related to this Agreement or Volunteer's participation in Volunteer Activities, except to the extent a Claim is caused by the gross

negligence or intentional misconduct of any Releasee. This provision will survive the termination of this Agreement.

7. **Release from Third-Party Liability.** I understand that the District is not an agent of, and has no responsibility for, any third party, including, without limitation, to any sponsor or entity that may provide any services, hospitality, public and/or private transportation, equipment, training, or activities associated with the Volunteer Activities. I hereby relieve the District and Releasees from any and all claims arising out of such third-party liability, events, acts, or omissions.
8. **Authorization for Medical Treatment.** I consent to any of the staff, employees, and representatives of the District administering or consenting to the administration of such emergency medical care to Volunteer as such person(s) deem appropriate under the circumstances. I understand that the District does not carry or maintain health, medical, or disability insurance coverage for the Volunteer, and I therefore agree to assume the responsibility for such insurance coverage for the Volunteer. I further understand that Volunteer is not covered under or entitled to any benefits under any workers' compensation insurance held by the District.
9. **Publication.** I hereby irrevocably authorize the District to use Volunteer's name, image, likeness, signature, words, and voice in any medium now existing or existing in the future, for any purposes, including marketing and commercial purposes. I acknowledge and agree that I and Volunteer will have no property rights in any such medium and that I and Volunteer are not entitled to any compensation for the use of their name, image, likeness, signature, words, or voice. This provision will survive the termination of this Agreement.
10. **Confidential Information.** Volunteer may have access to private and confidential information in the District's possession, custody, or control, including, but not limited to, private information regarding employees, trade secrets, business plans, and other personal health information, financial information, contact information, other proprietary information ("Confidential Information"). I and Volunteer acknowledge and agree that Confidential Information must remain private and cannot be used, disclosed, or copied except to the limited extent necessary to carry out volunteer responsibilities, with the prior written consent of the General Manager of the District, or if required by law. I and Volunteer agree that upon termination of Volunteer's volunteer services, or at the request of the District at any time, they will deliver to the District all material in their possession, custody, or control containing or relating to the District's Confidential Information. This provision will survive the termination of this Agreement.
11. **Termination.** The District, Volunteer, or I may end the Volunteer's participation in Volunteer Activities as a volunteer at any time, for any reason, or no reason, and with or without prior notice.
12. **General Provisions.** This Agreement may not be assigned by me or Volunteer without the prior written consent of the District. This Agreement constitutes the entire agreement

of the parties with regard to the subject matter of this Agreement, and supersedes all prior oral and written agreements or negotiations of the parties on that subject matter. No modification, amendment, or waiver of any of the provisions contained in this Agreement shall be binding, unless approved in writing by the parties. Should any provision of this Agreement be deemed by any court of competent jurisdiction to be illegal, invalid, or unenforceable, that determination shall not render any other provision of this Agreement illegal, unenforceable, or invalid. This Agreement is governed by and will be construed in accordance with the laws of California, without regarding to its conflict of law rules. The parties consent to jurisdiction in California and agree that the venue for any action arising out of or related to this Agreement will be Los Angeles County. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, all of which together shall constitute one instrument. The parties agree that electronic signatures (e.g. DocuSign) of the Parties shall have the same force and effect as original signatures.

I HAVE READ THIS MINOR VOLUNTEER PERMISSION, WAIVER, RELEASE, AND INDEMNITY AGREEMENT AND FULLY UNDERSTAND ITS TERMS. MY SIGNATURE BELOW IS VOLUNTARY AND INDICATES THAT I AND VOLUNTEER ACCEPT ALL TERMS OUTLINED IN THIS AGREEMENT AND THAT I HAVE LEGAL AUTHORITY TO SIGN.

Unless one parent has had their parental rights terminated by court order, both living parents must sign this Agreement.

_____ Minor Volunteer's Signature	_____ Printed Name	_____ Date
_____ Parent's/Legal Guardian's Signature	_____ Printed Name	_____ Date
_____ Parent's/Legal Guardian's Signature	_____ Printed Name	_____ Date

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
September 14, 2021

To: Honorable President and Members of the Board of Directors
From: James Lee – Director of Finance and Administration
Subject: **Budget & Proposition 218 Process**

ACTION ITEM:

Placeholder for discussion and possible action for schedule, timing, and other considerations related to completing the budget and Proposition 218 process.

DISCUSSION:

This action item serves as a placeholder for any discussion related to the schedule and timing for completing the budget, Prop 218 process, and related considerations. A schedule of meetings and tasks is updated on an ongoing basis and included with each placeholder.

RECOMMENDATION

NA.

Submitted by:



James Lee
Director of Finance & Administration

Attachment(s): 1) CVWD Meeting Schedule (ongoing updates)

g:\management\board meeting staff reports\2021\09-14-21 Board Memo - Budget & Prop 218 Placeholder.docx

Attachment

FY 2021/22 - CVWD Meeting Schedule <i>(ongoing updates)</i>		
Date	Agenda	Status
Week of 3/15	Finance Committee Meeting (CIP & Budget Discussion) * Engineering Committee Meeting *	✓
Week of 3/15	Community Advisory Committee Meeting *	✓
3/23	Board Meeting - Budget Discussion	✓
Week of 3/29	Finance Committee Meeting (Cost of Service & Rate Design / Budget) * Engineering Committee Meeting *	✓
Week of 3/29	Community Advisory Committee Meeting *	✓
4/13	Board Meeting - Budget Discussion	✓
Week of 4/19	Finance Committee Meeting * Engineering Committee Meeting *	✓
Week of 4/19	Community Advisory Committee Meeting *	✓
4/27	Board Meeting - Budget Discussion	✓
5/11	Board Meeting	✓
Week of 5/10	Finance Committee Meeting (Sewer Pass through / Budget) * Engineering Committee Meeting *	✓
5/25	Board Meeting - (FY 2022 Budget Approved)	✓
6/8	Board Meeting	✓
Week of 6/14	Community Relations Committee (Prop 218 Notice) * Finance Committee Meeting *	✓
6/22	Board Meeting - Review Prop 218 Notice	✓
7/13	Board Meeting	✓
Week of 7/12	Finance Committee Meeting (Draft Cost-of-Service Report/218 Notice) *	✓
7/20	Special Board Meeting - Review Cost-of-Service Report/218 Notice	✓
7/27	Board Meeting - Approve Cost-of-Service Report/218 Notice	✓
Week of 8/2	Mail 218 Notice	✓
8/24	Board Meeting	✓
9/14	Board Meeting	
Week of 9/20	Prop 218 Letters - 45 days	
9/21	Public Hearing - Last Day for 218 protest letters - Water/Wastewater Rates	
9/28	Board Meeting - Adopt Rates & Budget	
10/1	Implement Adopted Rates	

* Subsequent meetings will be scheduled as needed.

CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report

September 14, 2021

To: Honorable President and Members of the Board of Directors
From: Nem Ochoa, General Manager
Subject: **General Manager Report**

General Managers Report Topics:

- GM Activities

The following are some highlights in this month's report:

- Orange Avenue Pipeline Birthday Party Event
- Local Hazard Mitigation Plan CalOES/FEMA Review Status
- Hydrology Report
- Engineering Projects
- Operational Activities
- Water Conservation and Public Outreach Update

STAFFING

3 employees have work anniversaries in September. David Inman – 5 years, Peter Hilke – 9 years, Brook Yared – 14 years

As of September 9th the District has gone 660 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

CPR Training	- August 25 th
Cyber Security Training	- August 25 th
Management staff meetings	- August 30 th , September 13 th
Engineering Committee Meeting	- August 31 st
FMWD Meeting	- August 31 st
Executive Committee Meeting	- September 9 th

Submitted by:



Nem Ochoa
General Manager

Engineering Report

September 14, 2021
Staff Report

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: **Engineering Report – August 2021**

1. Water Production Report

- August 1 – 31 – Water production – 47%/53% split – 132.4 MG for the month
- Average use – 8.0% less than 2020 and 1.5% less than 5-yr average

2. Rainfall Update

- 0.01” for August 2021
- Rainfall Total for Rainfall Year 2020/21 – 7.58”

3. Report on Engineering

• **FY 20/21 Capital Improvement Projects**

- Rosemont Reservoir Rehabilitation - Complete
- FY 20/21 - Pipeline Replacement Program
 - Project 1 – 2400 & 2500 Blocks of Janet Lee - Complete
 - Project 2 – 4300 Block of Rosemont – Complete
 - Project 3 – 3300 & 3400 Blocks of Encinal – Complete
 - Project 4 – El Caminito, Dryer, etc. – Under Construction. Complete by Sept 2021.
- Emergency Generator at Sewer Lift Station
 - License Agreement with LA County Parks & Recreation
 - Under review by CVWD Legal Counsel
 - Estimated completion date – Nov 2021
- Rehabilitation of Well 12 – Complete
- SCADA Radio Communications Network
 - Staff working on Request for Quote
- SCADA System Upgrades
 - Kickoff meeting for Pilot Program for Wells 8 & 14

• **FY 21/22 Capital Improvement Projects**

- Ramsdell Mixing Station/Pressure Reducing Station
 - Awaiting SCE response regarding underground utilities
- FY 21/20 – Pipeline Replacement Program
 - Submitting 50% Design for Permitting
 - Potholing for utility crossings & connection to ex. water mains
- Edmund #2 Reservoir Rehabilitation
 - Advertising for Bid

• **Grant Program**

- Local Hazard Mitigation Plan
 - Cal OES review complete
 - FEMA review pending
- USBR WaterSmart Grant – Grant Awarded
- Stormwater Capture Project at Crescenta Valley County Park – Response to LADWP.

- **AMI Communication Network**

- Installation of Base Stations & 100 water meter lids & SmartPoints – Complete
- Verifying data – Complete.
- Customer Engagement Portal platform – See Staff Report

4. **Developer Projects**

- 2314 Montrose – New 5 Units – Construction of water service – Reconciliation
- 4360 Ocean View – New Fire Hydrant construction – Complete
- 2341 Mira Vista – New 4 Units – Plan check
- 3037/3043 Foothill – New 38 Units and mixed commercial – Plan Check/ Hydraulic Analysis
- Waiting on Developer
 - 4521 Briggs/2413 Foothill – New 70 Units
 - 3900 Park Place – New 28 Units
 - 2345 Mira Vista – New 4 Units
 - 1961 Waltonia – New 6 Units

5. **FMWD** – No Report

CRESCENTA VALLEY WATER DISTRICT

WATER PRODUCTION REPORT

August 1 - August 31, 2021

Well Production:	56,207,800	Gals		
GWP Production:	5,264,000	Gals		
Gravity Production:	1,273,797	Gals	% GW	47%
Purchased Water:				
FMWD:	69,699,672	Gals		
City of Glendale:	0	Gals	% Import	53%
TOTAL:	132,445,269	Gals		
	406.46	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, 2021	4,233,559	
August 1 - August 31, 2020	4,602,072	-8.0%
5-yr Average - August 2016 - 2020	4,298,928	-1.5%

RAINFALL: August 1 - August 31, 2021 0.01"

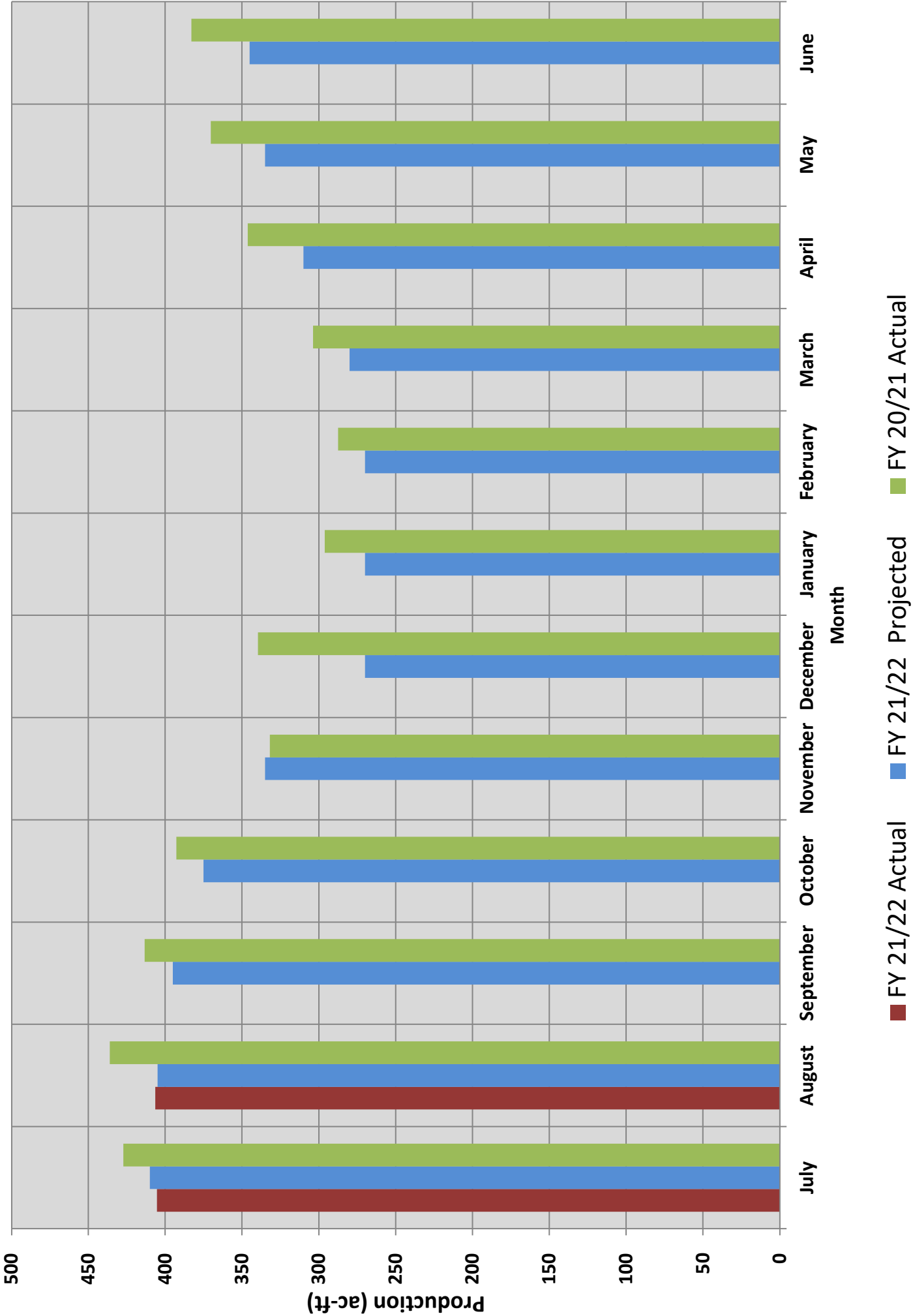
Season-To-Date: 7.58"

2021/22 Fiscal Year Water Production			WY 20/21 - Groundwater Production Water Rights		GWP (Well 16) Water Production - 2021		Purchased Water Production Tier 2 Allocation 2021	
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	405	410	October	160	January	17	January	143
August	406	405	November	130	February	15	February	120
September		395	December	151	March	17	March	116
October		375	January	136	April	16	April	163
November		335	February	152	May	17	May	189
December		270	March	171	June	16	June	206
January		270	April	167	July	16	July	228
February		270	May	164	August	16	August	214
March		280	June	161	September		September	
April		310	July	160	October		October	
May		335	August	176	November		November	
June		345	September		December		December	
Total to Date	812	815	Total to Date	1,728	Total to Date	132	Total to Date	1,380
Projected	3,997	4,000	Water Rights	3,294			Tier 2	2,154
% of Projected	20.3%	20.4%	% of Rights	52%			% of Allocation	64%
Remaining	3,188	3,185	Remaining	1,566			Remaining	774

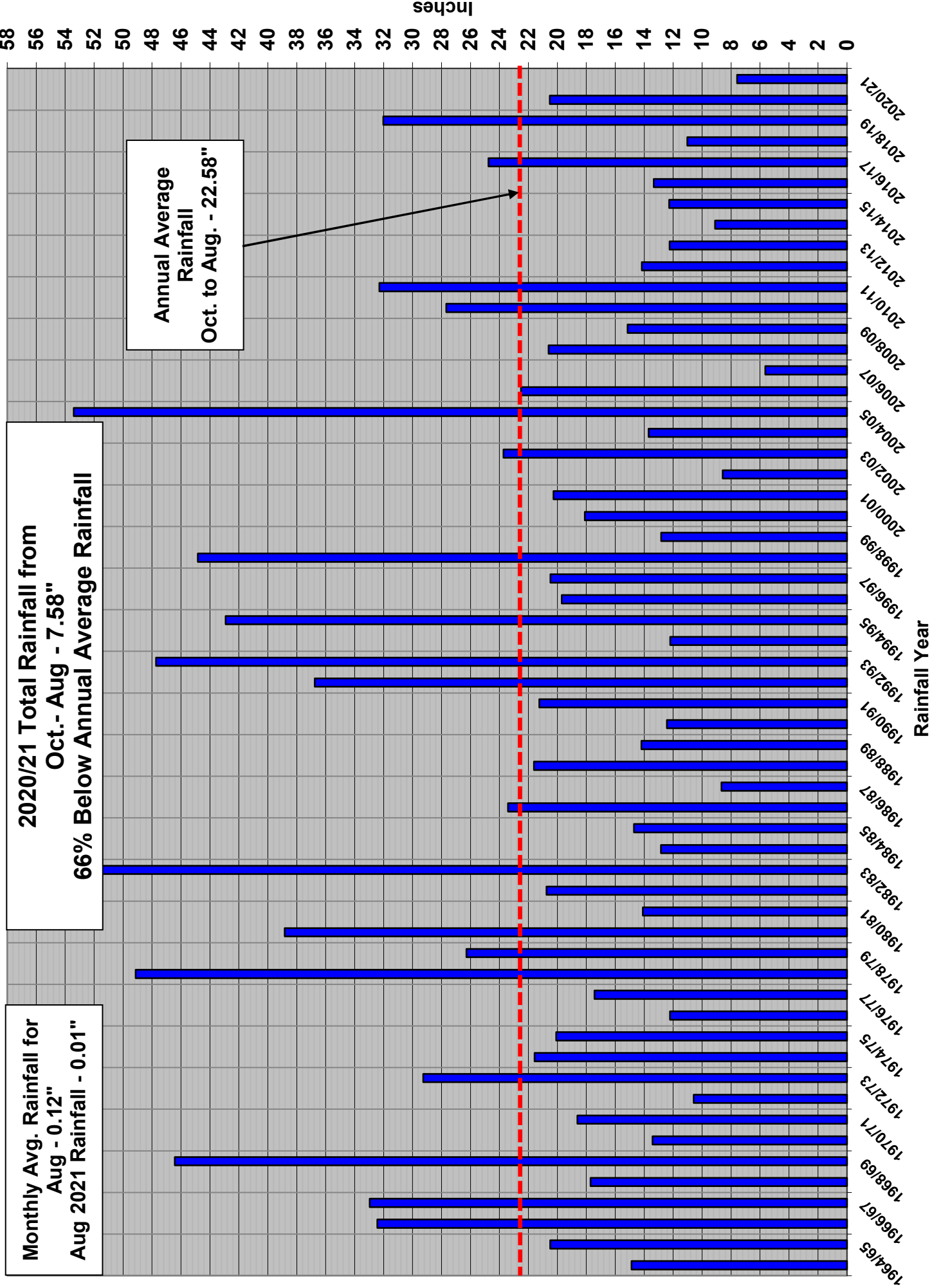
NOTE:

1) Blue Numbers = Estimated Water Production

Monthly Water Production:
FY 21/22 Actual, FY 21/22 Projected & FY 20/21 Actual



Monthly Rainfall - 1963/64 - 2020/21 (Oct.- Aug.)



Field Maintenance and Operations Report

August 2021

1

Water Main Repairs

14

Water Service
Repairs/Replacements

20

$\frac{3}{4}$ " & 1" Meters Replaced

58

Meter Boxes Cleaned

4,361

Sewer Pipe Cleaned (ft)

- **Field Maintenance Projects**

- * Developer Jobs:

- New 1" Service – 2042 Hilldale

- **Operations Report**

- * Disinfection/Treatment Maintenance:

- Calibrated analyzer probes
 - Hach analyzer data collection

- * Booster Pump Maintenance

- Rosemont & Edmund #2 – pressure control valve service
 - Mills – welding repair
 - Well #5 – manifold welding repair

- **Electrical/Telemetry**

- * All Sites – EMASS project with Tesco
 - * Edmund 2 – R & R GFIC in CL2 analyzer enclosure
 - * Williams – conduit training

- **Wastewater Lift Station**

- * De-ragged pumps, check valves & added degreaser as needed

Field Maintenance and Operations Report

August 2021

Days without a lost-time incident: 659

2

After Hours Leaks/Repairs

1

Fire Hydrant Maintenance
Program: 0 Rebuild, 1 Replaced, 0 painted

179

Water Quality Samples

0

Valves Exercised

0

Valve Replacements

- **Training/Cross Training**

- * Camera/TV Van:

- Updated Granite Software

- * Operator:

- DR300 colorimeter

- * Glenwood Plant:

- CPR (In person)
- Phishing (Webinar)
- Tristate Seminar (Professional Development)

- * Welcome New Employee – Seth J.

- **New Certification**

- * None to report

- **Safety**

- * COVID protocols: Continued cleaning
- * Monthly Safety Meeting: Hearing Protection

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

September 9, 2021
Staff Report

To: Honorable President and Members of the Board of Directors
From: Christy J. Colby
Subject: **Water Conservation and Public Outreach Update**

Monitoring Report Submitted to State for August 2021:

Production Numbers

➤ Total Water Production August 2021:	405.7 AF
➤ Total Water Production August 2013:	486.3 AF
➤ Total Water Production August 2020:	435.2 AF

Compliance Reporting

➤ Days of outdoor Irrigation Allowed:	3 or 4
➤ Number of Water Waste Complaints:	0
➤ Number of Follow-ups:	0
➤ Number of Warnings:	0
➤ Number of Penalties:	0

Voluntary Water Reduction Goal, 25% from 2020 Usage

➤ Percent Reduction from 2013	16.6%
➤ Percent Reduction from 2020	6.8%

Public Outreach

➤ Face Book Posts	2
○ Total Reach	18
➤ CV Weekly	
○ Classified Ad, Engineering Intern	
➤ Constant Contact	
○ Getting to Know your District	
▪ Sent 6,513, Opens Rate 43.2%	
▪ Click Rate 7.3%	
▪ (204 people watched the video)	
➤ Everbridge	
○ Water Shutoff Notification	8/18/2021
○ Water Shutoff Notification Update	8/23/2021

CRESCENTA VALLEY WATER DISTRICT

MEMORANDUM

DATE: August 31, 2021
TO: Engineering Committee
FROM: David S. Gould, Director of Engineering & Operations
SUBJECT: CVWD Engineering Committee Meeting No. 328

Following is a summary of Engineering Committee Meeting No. 328, held at 11:02 AM on August 31, 2021, via Zoom Teleconference, and was attended by the following:

Director Sharon Raghavachary – Committee Chairperson	CVWD
Director Judy Tejada	CVWD
David Gould – Director of Engineering & Operations	CVWD
Brook Yared – Engineer Manager	CVWD
Nemesciano Ochoa – General Manager	CVWD
James Lee – Director of Finance and Administration	CVWD
Arturo Montes – Finance and Administration Manager	CVWD
Pam Leddy – Administrative Assistant	CVWD
Kellen Boyce – System Operations Manager	CVWD
Jennifer Bautista – Project Coordinator	CVWD

Information Items

1. Discussion of Project Updates for FY 20/21 Capital Improvement Program

Mr. Gould provided a summary update for FY 20/21 Capital Improvement Program projects.

Mr. Gould stated that the work for the Steel Reservoir Rehabilitation for Rosemont Reservoir is complete. Mr. Gould explained that the final retention is being held until the site cleanup is complete.

Mr. Gould provided an update on the Annual Pipeline Replacement for Projects 1, 2, 3, and 4. Mr. Gould explained that Projects 1 & 2 on Janet Lee and Rosemont Avenue are complete. Staff is finalizing the costs and preparing the final retention to complete the project. Mr. Gould explained that Project 3 is complete, and Staff has sent out the final retention. Mr. Gould explained that for Project 4, the contractor is finalizing and completing the work on the 2700 block of Paraiso Way. A shutdown is scheduled for September 8, 2021, to connect the old main to the new main. The anticipated completion date is September 17, 2021.

Mr. Gould provided an update on the LHMP. The LHMP has been completed and submitted to Cal OES. Mr. Gould added that he and Ms. Bautista are working on the first set of grants to submit on September 30, 2021. The first grant the District will apply for will be used to purchase new Emergency Generators.

Mr. Gould provided an update on the New Emergency Generator at La Granada Sewer Lift Station Project. Mr. Gould explained that Staff has been working with L.A. County Parks and Recreation on a License Agreement. Staff should have the final License Agreement within the next week or two. The generator is expected to be shipped in September 2021, and we anticipate construction to begin around October 2021.

Mr. Gould provided an update on the Advanced Metering Infrastructure (AMI) Program. Mr. Gould informed the Committee that CVWD had installed about 538 meters this year along with the AMI Communications Network.

Mr. Gould mentioned that the U.S. Bureau of Reclamation had awarded the District a grant for 3-inch and 4-inch meters. U.S. Bureau of Reclamation anticipates awarding Federal funds in the amount of \$75,000 for our proposed project. The District will provide \$125,000 for the proposed project. Mr. Gould also stated that the District has awarded the CEP project to WaterSmart, Inc. at the last Board meeting

Mr. Gould provided an update for the Groundwater Well Rehabilitation project for Well 12. Mr. Gould explained that the well is running 110 gallons per minute (gpm). Mr. Yared noted that the District had gained approximately 20% efficiency on the operation of Well 12. Mr. Gould added that a goal for Staff is to increase well water production and efficiency. An increase in efficiency decreases energy costs and additional purchased water for the District.

Mr. Gould discussed the update to the SCADA Communications Radio Network. The feasibility study is complete, and Staff is working on a request for proposal (RFP).

Mr. Gould provided an update on the New Project Reducing Valve (PRV) Station and Upgrade to Ramsdell/Mayfield Mixing Station project. Mr. Gould explained that Mr. Yared has been working with the consultant, Cannon Corp, to design the work. The goal is to complete the design within the next six weeks and advertise to bid in late October. Mr. Yared has been working on potholing to locate the existing utilities.

Mr. Gould provided an update on the Replacement of Supervisory Control and Data Acquisition (SCADA) System Upgrade project. Mr. Gould explained that the District is funding the Pilot Program and meeting again on September 16, 2021. The goal of the Pilot Program is to use the information gathered to determine how much more time is needed to complete the SCADA program.

Mr. Gould provided an update on the Stormwater Recharge Program project. Mr. Gould explained that the project is on hold while Staff works with City of Los Angeles on water rights.

Mr. Gould provided an update for the Rehabilitation Surge Tank at Glenwood. Mr. Gould explained that the project is currently on hold.

Mr. Gould stated that the 16-inch Manifold and Valve Replacement at Oak Creek Reservoir project and the Annual Booster Pump Replacement project are complete.

Mr. Gould provided an update for the Facility Improvement Program project. Mr. Gould explained that Staff has decided not to move forward with the project for the installation of a new roof on the old concrete reservoir at Encinal for material and equipment storage.

Mr. Gould then presented a summary of project costs, including costs spent to date, cost committed to for the remainder of the year, and the total cost of each project.

Mr. Gould explained that the projected budget for FY 20/21 CIP was \$5M. Out of the \$5M, a little less than \$2.7M was made from the Bond Financing CIP, and \$2.3M will be from the District's Water Fund Financing CIP. Mr. Gould explained that the column titled FY 20/21 Committed-Transfer to FY 21/22 shows a carryover of \$583,316 for project 4, which the District will carry over to next year. The final cost came to \$4,236,610, about \$763,390 below budget.

Mr. Gould also presented the FY 20/21 Capital Improvement Project Program Cost Update for Water Supply, Water Storage, Water Distribution, Water Treatment, Technology, Public Safety/Emergency Response, and Facilities & Planning. Mr. Gould went through each category and explained in detail which project were over or under budget. Mr. Gould noted that he split the comment section for Water Distribution and Technology into two parts: Projects that were completed are to the left and Projects to the right that are not complete. Discussion followed on how the District will reallocate the money.

The Public Safety/Emergency Response and Facilities & Planning budget has the budget to roll over to FY 21/22 projects. Finally, Mr. Gould presented a summary for FY 20/21 Capital Improvement Project Program. The initial cost estimate for PayGo funding was \$2.3M, but the final cost came to \$1,083,797.

2. Discussion of Unplanned Project – Zone 4 to Zone 3 Pressure Reducing Station at Foothill Blvd & Cloud Ave.

Mr. Gould provided a background for the unplanned project to upgrade Zone 4 to Zone 3 Pressure Reducing Station (PRS) at Foothill Boulevard and Cloud Avenue, which delivers water from Pressure Zone 4 (high pressure) to Pressure Zone 3 (low pressure) when there is high demand or fire protection is required.

Mr. Gould explained that the PRS on Foothill Boulevard and Cloud Avenue was utilized in June 2021 during the rehabilitation of Rosemont Reservoir when Staff received a call in June 2021 that water was leaking from one of the vaults. The PRS is currently not in service.

Staff hired the contractor, Hydrotech, to examine the pressure control valve. Hydrotech notified Staff that the pressure control valve was in poor condition and recommended that it be replaced. Staff has decided to modernize the entire PRS to today's standards.

Mr. Gould presented a project schedule that shows a completion date of December 2021 and construction by July 2022.

Mr. Gould informed the Engineering Committee that Staff met in the field with the consultant, Cannon Corp, to discuss an upgrade to the PRS. Cannon Corp presented a proposal of \$111,200 for engineering design and services. The proposal includes telemetry, which would help Staff determine where water is lost and how interaction behaves between Pressure Zone 4 and Pressure Zone 3. Current PRS does not have telemetry. CVWD did an internal preliminary construction cost estimate of \$418,800 for a total of \$530,000.

Mr. Yared noted that it would be difficult for residents in Pressure Zone 3 to pass a Fire Flow test without upgrading the PRS. Mr. Ochoa added that this might be a feasible project because this is not indicative of the normal state of the system. The hydraulic model might be a candidate to use in lieu of a hydrant test, assuming that we did get this project done and everything is back to normal when completed.

Staff recommends that an action item be placed at the next Board meeting on September 28, 2021, to award a design contract to Cannon and decide whether to include the project under the FY 21/22 budget or next year's budget. Staff will also request from the Board of Directors that the District utilize the reserve pay for this project. The 2-year total CIP projected cost would be about \$9.3 M, less than the original \$10M.

3. Discussion of New Project – New Zone 7 to Zone 5 Pressure Reducing Station as part of Clark High School/GUSD Improvements

Mr. Gould provided a background for the New Zone 7 to Zone 5 Pressure Reducing Station as part of Clark High School/GUSD Improvements. In the past, Glendale Unified School District (GUSD) and the City of Glendale have discussed the availability of water service for a new facility GUSD was considering new building at Clark Magnet High School for the Robotics Team. Glendale Water & Power has a main on New York Avenue that does not provide enough pressure and flow for the new project. The District has a main on Cloudsdale Avenue, on the north side of Clark Magnet High School. Testing was performed by the City of Glendale and the District, and it looked like the best solution for GUSD was to connect to CVWD's main to allow utilization of the Districts Pressure Zone 7 to bring water to Pressure Zone 5 into the system.

Mr. Yared added that in 2018, GUSD approached the District and asked the District to perform a series of fire flows on New York Avenue and Cloudsdale Avenue and in that area. GUSD has had difficulty determining how to provide fire protection to Clark Magnet High School in the past. None of the fire flows provided sufficient enough flow to provide fire protection for the new building. GUSD negotiated with Glendale Water and Power (GWP) to see if GWP could provide additional pressure and flow in that area. However, the city of Glendale was unable to provide adequate pressure and flow to the area.

Mr. Yared informed the Committee that the consultant, Akel Engineering, provided a hydraulic model between Pressure Zone 7 and 5. The District would provide Clark Magnet High School the necessary flow to fire protection based on the hydraulic model.

Mr. Yared explained that GUSD approached the District again in June 2021 and requested that the District and GUSD begin the project. Mr. Yared explained that Staff would need to hire a consulting firm to provide surveying and engineering design services to install the new PRS with a new vault, new transmission main, and other appurtenant materials. Additionally, the project requires that a new fire service lateral be constructed along the north side of Clark Magnet High School. Mr. Yared explained that he is currently working with GUSD's Project Engineer, who is also in charge of GUSD's bond funding.

Mr. Yared informed the Committee that a request for proposal (RFP) was submitted to a group of preselected consultants. A pre-proposal meeting was held on August 12, 2021, with five (5) consulting engineering firms were in attendance, and four (4) proposal were received on August 27, 2021. Mr. Yared said that Staff would compile a ranking score and send the ranking scores over to GUSD for approval.

Mr. Yared explained that the initial estimate for the project was \$373,000. Based on the spread of the design services, the design services are slightly higher than initially estimated, and the estimate is possible to increase.

Mr. Yared discussed that there would be upfront costs to the project. GUSD will reimburse the District for the upfront costs, but upfront funding will be necessary to cover the costs before reimbursement.

Mr. Yared informed the Committee that he would have maintain communication with GUSD about any additional costs. The District would like to have a good transfer of ownership and cost-sharing as appropriate. Mr. Yared said GUSD is pressed for time as GUSD would like to have the new building ready to use by April 2022.

Mr. Gould added that the critical item in this discussion is that this is a project where the District will provide upfront costs and then get reimbursed from GUSD. The project will have to be added to the District's overall CIP program. Mr. Gould included that a written agreement will also be required with respect to cost reimbursement.

Finally, Mr. Yared presented a project site map showing the new PRS at Clark Magnet High School. The new building and PRS will be located on Cloudsdale Avenue and Santa Carlotta Street.

4. Discussion of FY 21/22 Capital Improvement Budget

Mr. Gould provided an update for the FY 21/22 CIP. Mr. Gould reminded the Committee that in the past, the Engineering Committee had discussed alternatives to start the design of a project early so that construction activity could begin sooner.

Mr. Gould stated that the award for contract for the new design consultant for the new pipelines on the 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thelma St. had been granted to Tetra Tech.

Mr. Gould informed the Committee that Staff is working with Cannon Corp on designing the new Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station.

Mr. Gould mentioned that the District is working with Harper & Associates on Edmund No. 2 reservoir rehabilitation. The plans should be finalized and ready to present at the Board meeting on September 14, 2021.

Mr. Gould provided an update to the SCADA communication radio network and the replacement of SCADA Equipment, Programming & Integration. Mr. Gould mentioned that Staff is finalizing the Request for Quote (RFQ) to install new radios and antennas. Mr. Gould also mentioned that Staff is currently working with Apex Manufacturing Services (APEX) on the Pilot Program.

Mr. Gould noted that the Chloramine conversion and Wastewater Master Plan projects are currently behind schedule. Mr. Gould explained that the District would need a consultant to assist operations staff with conversion, monitoring, and standard operating procedures to convert chloramines. Staff will also need a consultant to assist and prepare a Wastewater Master Plan with Wastewater Treatment Plant Feasibility Study.

Mr. Gould presented the 5-Year Capital Improvement Project Summary. Mr. Gould pointed out that the original estimate for FY 22/23 provided to the board was \$5.2M. However, the costs have increased to \$5.783M. Mr. Gould explained that the increase of \$552,865 is due to the additional pipelines for FY 21/22 Pipeline Replacement completed between September and October 2021.

Mr. Gould also presented the 5-yr PayGo and Bonds for Water Supply Project summary. Mr. Gould explained that the three yellow blanks in the 5-yr PayGo and Bonds for Water Supply Project summary are for the Pump Station Upgrade on Paschall Booster Station, the upgrades to PRS for Pressure Zone 4 to Zone 3 PRS, and the new PRS for Pressure Zone 7 to 5. Mr. Gould explained that the motor control center at Paschall Booster Station is starting to fail and has had issues in the past six months. Staff will perform a technical memorandum study to determine how to resolve the issue best. Mr. Gould expressed concern about the motor failure because it is the main connection point to Foothill Boulevard.

Finally, Mr. Gould presented the FY 21/22 Capital Improvement Project Summary using Bond & PayGo Funding. The District has \$2.59M left from the \$5M bond used towards the pipeline replacement projects. The remaining will go towards our PayGo and water reserves.

Committee Member's Request for Future Agenda Items - None

Next Meeting

- Next meeting scheduled for September 21, 2021, at TBD

Adjournment - The Engineering Committee meeting was adjourned at 12:10 pm on August 31, 2021.

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
August 31, 2021 at 11:00 AM

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

Posted August 30, 2021 at 10:00 AM

TELECONFERENCING NOTICE

[This meeting will be held by teleconference only.]

Pursuant to the provisions of Executive Order N-08-21 issued by Governor Gavin Newsom on June 11, 2021, a local legislative body is authorized to hold public meetings via teleconference.

Any member of the public may participate 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: 858 5019 9903

[Pursuant to the above Executive Order, the public may not attend the meeting in person]

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/85850199903>

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 Items

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. Final FY 20/21 Capital Improvement Project Budget
2. Unplanned Project - Zone 4 to Zone 3 Pressure Reducing Station at Foothill Blvd & Cloud Ave.
3. New Project - New Zone 7 to Zone 5 Pressure Reducing Station as part of Clark High School/GUSD improvements.
4. FY 20/21 Capital Improvement Project Budget

Committee Member's Request for Future Agenda Items

Next Engineering Committee Meeting – September 21, 2021, at 2:30 pm

Adjournment

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 1
August 31, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: **Project Update – August 2021 - FY 20/21 Water Capital Improvement Program**

BACKGROUND:

The Board approved the FY 20/21 Water Budget at the June 9, 2020, meeting with \$2.3M available for CIP projects. The Board also agreed to pursue refinancing CVWD's existing bond debt and requesting additional funding, totaling \$5M, for FY 20/21 CIP. The \$5M Bond process was completed on September 15, 2020.

DISCUSSION:

The following is the **August 2021** update of the progress and schedule for the FY 20/21 CIP projects. Project costs are shown on the attached Updated Project Cost Summary:

1. **Steel Reservoir Rehabilitation – Rosemont Reservoir** – This project is for the structural repairs and re-coating of the reservoir interior to maintain the District's water storage capacity and to increase the life expectancy of the steel tank.
Progress: Construction is complete, reservoir back in service
Final retention being held until site clean-up.
2. **Annual Pipeline Replacement** – This project is for the replacement of steel pipelines that are at least 50-years old or older in a timely manner.
 - A. **Projects 1 & 2:** Replacement of 4-inch & 6-inch pipelines on the 2400 & 2500 Blocks of Janet Lee (Project 1), and the 4300 Block of Rosemont (Project 2).
Progress: Construction is complete, pipelines are back in service & project costs are being finalized for FY 20/21.
 - B. **Projects 3:** Replacement of 8-inch pipeline on the 3400 & 3500 Blocks of Encinal (Project 3)
Progress: Construction is complete, pipelines are back in service & project costs have been finalized.
 - C. **Projects 4:** Replacement of 4-inch, 6-inch & 8-inch pipelines on the 4800 Block of Dyer, 2800 Block of El Caminito, 4800 Block of Glenwood, 2800 Block of Stevens and 2700 Block of Paraiso Way (Project 4).
Project Schedule: Under Construction; final project costs to be included in FY 21/22.
 - September 24, 2021 – Anticipate work to be completed.
3. **Local Hazard Mitigation Plan** - CVWD was awarded a grant from Cal OES and FEMA to prepare a Local Hazard Mitigation Plan (LHMP). The total grant amount to prepare a local hazard mitigation plan is \$165,000, with \$125,000 grant funding from FEMA and \$40,000 funding from CVWD.
Progress: Tetra Tech completed the Final LHMP.
Project Schedule: Complete
 - August 2021 – LHMP submitted to Cal OES.
 - September 2021 – Grant Applications due
4. **New Emergency Generator at La Granada Sewer Lift Station** – Installation of a new emergency electrical generator at the sewer lift station.
Progress: Cannon and staff have completed the design and project was awarded to Affordable Generator Services.
Project Schedule: Behind Schedule

- LA County Parks & Recreation Department – preliminary license agreement - 9/06/21
 - September 2021 – Construction to begin. Anticipated delivery date for emergency generator.
5. **Advanced Metering Infrastructure (AMI) Program** – This project has two (2) components: 1) replacement of ¾” & 1” meters with new Sensus iPERL “Smart Meters” in Pressure Zone 2, and 2) installation of the AMI network communication system.
- Progress:** Field crews have replaced around 537, ¾-inch & 1-inch, water meters for FY 20/21. Esource completed RFQ, and the contract was awarded to Aqua Metric for the AMI network communication system.
- Project Schedule:** On Schedule
- Completed AMI network communication system & installation of 100 meters.
6. **Groundwater Well Rehabilitation** – This project is for the rehabilitation of Well 12, which was last rehabilitated in 2010.
- Progress:** Construction complete and Well 12 placed back into service on June 23, 2021
7. **Replacement of SCADA Communication Radio Network** – CVWD has an existing radio communication network that operates on the 900 MHz radio frequency. In the past year, the radio system has seen interference with other communication devices, and the equipment, which was installed 7 years ago, has been malfunctioning, which indicates it is nearing the end of its useful life.
- Progress:** SCADA radio feasibility study complete; Staff working on Request for Proposal.
8. **New Pressure Reducing Valve (PRV) Station & Upgrade Ramsdell/Mayfield Mixing Station** – This project includes installing a new PRV station near the intersection of Mayfield Ave. and Ramsdell Ave. and upgrading the Ramsdell/Mayfield Mixing Station. The new PRV Station is needed to provide water from Zone 2 to Zone 1 when Encinal Reservoir and the Ramsdell/Mayfield Mixing Station are out of service. To meet the current FY 20/21 CIP schedule, staff will need assistance from a consulting firm to complete the specifications and advertise for bids.
- Progress:** Staff and Cannon have started on the design
- Project Schedule:** Behind Schedule
- Under Design - Cannon
 - October 2021 – Advertise for Bids.
9. **Replacement of Supervisory Control and Data Acquisition (SCADA) System Upgrade** – CVWD has an existing SCADA system with RTU/PLCs that were installed at each of the District’s facilities in 1996. The SCADA system provides information on the status of the water system, controls for pump operation, and communication of alarms to the System Operators. The upgraded SCADA system will include upgrading equipment, programing, and integration based on industry standards, which can be repaired and/or replaced by various consultants/contractors.
- Progress:** Kick-off meeting for Pilot Project.
- Project Schedule:** Behind Schedule.
10. **Stormwater Recharge Program** - Stormwater Recharge Project at Crescenta Valley County Park (CVC Park) includes the design and installation of a stormwater infiltration system within CVC Park that will direct stormwater from the Verdugo Wash into infiltration galleries for groundwater recharge. The focus will be to coordinate with the City of Los Angeles on stormwater rights.
- Progress:** Met with LADWP, and staff working on alternatives regarding water rights.
- Project Schedule:** On Schedule

11. **Rehabilitation Surge Tank at Glenwood** – This project is the rehabilitation of the surge tank at the Glenwood Operations Facility. A preliminary design was completed in 2017.
Progress: Project put on hold
12. **16-inch Manifold and Valve Replacement at Oak Creek Reservoir** – CVWD’s operations staff observed a leak on the underside of the existing inlet/outlet pipeline manifold that joins Oak Creek #1 and #2 reservoirs. The inlet/outlet manifold was installed 1961 and is a critical junction point as it allows influent water to fill each reservoir.
Progress: Complete.
13. **Annual Booster Pump Replacement** – This project was originally planned to replace Markridge Booster 25. However, Booster B at Paschall was shut down due to what appears to be mechanical failure. Staff is working with the pump contractor that replaced the pump in 2018 to remove and replace the pump.
Progress: Complete
14. **Facility Improvement Program** – This project is for the installation of a new roof on the existing 70 ft diameter concrete reservoir at Encinal for material and equipment storage. Staff will be preparing an RFP for a consulting firm to perform the structural design of the new roof.
Progress: Complete

SUMMARY:

Attached for review is a summary of project costs including costs spent to date, cost committed to for the remainder of the year, and the total cost for each project.

Prepared & submitted by:



David S. Gould, P.E.
Director of Engineering & Operations

Attachment: FY 20/21 Capital Improvement Project Program - Cost Update: 8/25/21

FY 20/21 Capital Improvement Project Program Cost Update: 08/25/21	Recorded FY 19/20	Budget FY 20/21	<u>FY 20/21</u> Cost to date from 7/1/20 to 06/30/21	<u>FY 20/21</u> Cost Committed - Transfer to FY 21/22	Projected FY 20/21	Comments
Capital Improvement Project Summary						Costs - Budget vs. Actual
1. Water Supply	\$ 300,375	\$ 170,000	\$ 157,768	\$ -	\$ 157,768	(\$12,232)
2. Water Storage	\$ 498,530	\$ 480,000	\$ 663,607	\$ -	\$ 663,607	\$183,607
3A. Water Distribution - Pipeline	\$ 1,126,030	\$ 2,300,000	\$ 1,924,636	\$ 552,865	\$ 2,477,501	\$177,501
3B. Water Distribution - Other	\$ 10,892	\$ 710,000	\$ 133,014	\$ -	\$ 133,014	(\$576,986)
4. Water Treatment	\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073	\$54,073
5. Technology	\$ 152,597	\$ 1,070,000	\$ 581,691	\$ -	\$ 581,691	(\$488,309)
6. Public Safety/Emergency Response	\$ 5,810	\$ 165,000	\$ 134,549	\$ 30,451	\$ 165,000	\$0
7. Facilities & Planning	\$ -	\$ 105,000	\$ 3,956	\$ -	\$ 3,956	(\$101,044)
Capital Improvement Projects - Total	\$ 2,563,438	\$ 5,000,000	\$ 3,653,293	\$ 583,316	\$ 4,236,610	(\$763,390)
Bond Financing - CIP	\$ -	\$ 2,695,174	\$ 2,569,497	\$ 552,865	\$ 3,122,362	
Water Fund Financing - CIP	\$ 2,563,438	\$ 2,304,826	\$ 1,083,796	\$ 30,451	\$ 1,114,248	
Total Financing - CIP	\$ 2,563,438	\$ 5,000,000	\$ 3,653,293	\$ 583,316	\$ 4,236,610	

FY 20/21 Capital Improvement Project Program Cost Update: 08/25/21		Recorded FY 19/20	Budget FY 20/21	FY 20/21 Cost to date from 7/1/20 to 06/30/21	FY 20/21 Cost Committed - Transfer to FY 21/22	Projected FY 20/21	Comments
1. Water Supply							
A. Groundwater Water Supply							
i. Well Rehabilitation							
	Well 7 Rehabilitation	\$ 102,696					
	Well 16 Rehabilitation	\$ 103,713					
	Well 11 Rehabilitation	\$ 14,694	\$ -	\$ 56,106	\$ -	\$ 56,106	Complete - FY 19/20; Paid - FY 20/21
	Well 12 Rehabilitation		\$ 95,000	\$ 97,944	\$ -	\$ 97,944	Complete - FY 20/21; Paid - FY 20/21; Amount shown includes Final Retention Payment
ii. New Wells							
	Re-Activate Well 2 - Construction	\$ 79,272					
iii. Groundwater Basin Recharge							
	Stormwater Recharge Project at CVC Park - Planning		\$ 75,000	\$ 3,718	\$ -	\$ 3,718	Continuing Project - Planning Stage; Budget \$75K; Used \$3,718
WS Total		\$ 300,375	\$ 170,000	\$ 157,768	\$ -	\$ 157,768	Water Supply - Under Budget by \$12,232 or 7%
2. Water Storage							
A. Reservoir Rehabilitation							
i. Steel Reservoir Re-Coating/Roof/Vents Rehabilitation							
	Markridge	\$ 498,530	\$ -	\$ 367	\$ -	\$ 367	Complete - FY 19/20; Paid in FY 20/21
	Rosemont		\$ 480,000	\$ 608,059	\$ -	\$ 608,059	Project over budget by \$128,059
	Oak Creek - 16" Manifold Repair		\$ -	\$ 55,181	\$ -	\$ 55,181	Unplanned Project - Additional Cost - \$55,181
WS Total		\$ 498,530	\$ 480,000	\$ 663,607	\$ -	\$ 663,607	Water Storage - Over Budget by \$183,607 or 38%
3. Water Distribution							
A. Pipeline Replacement							
	3200 & 3300 Blocks of Brookhill	\$ 623,009					
	4700 & 4800 Block of Pennsylvania	\$ 503,021					
	2400 & 2500 Block of Janet Lee - Project 1		\$ 538,000	\$ 634,227	\$ -	\$ 634,227	Project 1 & 2 combined - 66% E-1009 & 34% E-1019; Total Project Cost - \$960,950
	Project 2		\$ 280,000	\$ 326,723	\$ -	\$ 326,723	\$142,950 Over Budget; Total Length - 2,300 LF = \$418/LF
	Project 3		\$ 707,000	\$ 787,928	\$ -	\$ 787,928	Total Length - 1,660 LF = \$475/LF; Over Budget by \$80,928
	Project 4		\$ 775,000	\$ 175,758	\$ 552,865	\$ 728,623	Total Length - 1,925 LF = \$379/LF; Under Budget by \$46,377
	Annual Pipeline Replacement		\$ 2,300,000	\$ 1,924,636	\$ 552,865	\$ 2,477,501	FY 20/21 - Total Length - 5,885 LF; Final Total Cost/LF = \$421/LF; Total Over Budget by \$177,501 or 8%; Original Budget - \$390/LF
C. Booster Pump System							
i. Annual Pump /Motor Replacement							
	Boosters - Glenwood 32 & 33	\$ 4,384	\$ -	\$ 85,951	\$ -	\$ 85,951	Complete - FY 19/20; Paid - FY 20/21
	Booster Replace - Booster B at Paschall		\$ 75,000	\$ 20,385	\$ -	\$ 20,385	Completed - FY 20/21
D. Pressure Reducing Stations							
	PRS - Zone 2 to Zone 1	\$ 6,508	\$ 150,000	\$ 26,677	\$ -	\$ 26,677	- Budgeted - \$150,000 include in-house design & construction - Continued Project in FY 21/22 - Re-evaluation of Project Scope and Cost - Combined this project with Upgrade - Ramsdell Mixing Station project for a total budget cost of \$600,000. - FY 20/21 Unused Budget of \$573,322 put back into Water Fund Reserves - FY 21/22 Budget - Reallocated Project Cost = \$729,000 - Hired consultant in March 21; Used \$26,677 for design services - Total Project Costs FY 16/17 to FY 19/20 = \$60,468
i. Water Surge Control							
	Rehabilitation Surge Tank at Glenwood		\$ 35,000	\$ -	\$ -	\$ -	Project deferred to a future CIP budget FY 20/21 Unused Budget of \$35,000 put back into Water Fund Reserves
iii. Misc.							

FY 20/21 Capital Improvement Project Program Cost Update: 08/25/21	Recorded FY 19/20	Budget FY 20/21	FY 20/21 Cost to date from 7/1/20 to 06/30/21	FY 20/21 Cost Committed - Transfer to FY 21/22	Projected FY 20/21	Comments
Upgrade - Ramsdell Mixing Station		\$ 450,000	\$ -	\$ -	\$ -	- Combined this project & PRS - Zone 2 to Zone 1 project for a total budget cost of \$600,000. - See comments above for re-evaluation of project costs
WD Total	\$ 1,136,922	\$ 3,010,000	\$ 2,057,650	\$ 552,865	\$ 2,610,515	Water Distribution - Budget for projects completed = \$2,375,000 - Actual costs for projects completed - \$2,583,837 - Over Budget - \$208,837 Water Distribution - Budget for projects continued to FY 21/22 = \$635,000 - Actual costs project continued to FY 21/22 = \$26,888 - Unused Budget of \$573,322 put back into Water Fund Reserves
4. Water Treatment						
C. Disinfection - Convert to Chloramines						
Conversion to Chloramination	\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073	Unplanned Project - Additional Cost including design services and water quality testing.
WT Total	\$ 469,205	\$ -	\$ 54,073	\$ -	\$ 54,073	Water Treatment - Over Budget by \$54,073
5. Technology						
A. Automated Meter Information (AMI) System						
AMI - 3/4" to 1" - Smart Meters	\$ 83,590	\$ 50,000	\$ 123,852	\$ -	\$ 123,852	Completed - Installation of 485 - 3/4" & 118 - 1" meters; Over Budget by \$73,852
AMI - Communication		\$ 150,000	\$ 271,705	\$ -	\$ 271,705	Completed - FY 20/21; Over Budget by 121,708
B. Supervisory Control and Data Acquisition (SCADA)						
Communication Radio Network		\$ 260,000	\$ 77,101	\$ -	\$ 77,101	SCADA Radio - Completed Radio Feasibility Study - Budget for SCADA Radio = \$260,000 - Actual cost for SCADA Radio = \$77,101 - Re-evaluation of Project Scope and Cost - FY 20/21 Unused Budget of \$182,899 put back into Water Fund Reserves - FY 21/22 Budget - Reallocated Project Cost = \$125,000
SCADA Replacement - Design	\$ 69,007					
SCADA Replacement - Installation		\$ 610,000	\$ 109,033	\$ -	\$ 109,033	SCADA Upgrade - SCADA PLC Upgrades & Support Pilot Program = \$35,000 Budget for SCADA Upgrade - \$610,000 Actual Cost for SCADA Upgrade - \$109,033 - Total Project Cost - FY 13/14 to FY 20/21 = \$427,147 - Re-evaluation of Project Scope & Cost - FY 20/21 Unused Budget of \$500,967 put back into Water Fund Reserves - FY 21/22 Budget - Reallocated Project Cost = \$374,000
TECH Total	\$ 152,597	\$ 1,070,000	\$ 581,691	\$ -	\$ 581,691	Technology - Budget for Project Completed = \$200,000 - Actual Costs = \$395,557 - Over Budget - \$195,557 Technology - Budget for projects continued to FY 21/22 = \$499,000

FY 20/21 Capital Improvement Project Program Cost Update: 08/25/21	Recorded FY 19/20	Budget FY 20/21	FY 20/21 Cost to date from 7/1/20 to 06/30/21	FY 20/21 Cost Committed - Transfer to FY 21/22	Projected FY 20/21	Comments
6. Public Safety/Emergency Response						
Dunsmore/Pickens - Seismic Sensors	\$ 5,810					
D. Miscellaneous						
FEMA Local Hazard Mitigation Plan		\$ 165,000	\$ 134,549	\$ 30,451	\$ 165,000	Completed Local Hazard Mitigation Plan Waiting on comments from Cal/OES & FEMA to finalize LHMP FEMA/Cal OES Grant - \$124,990; CVWD - \$41,664 = \$166,654 Reimbursement to date: \$68,608.50; Remaining in Grant = \$56,382
SF/ER Total	\$ 5,810	\$ 165,000	\$ 134,549	\$ 30,451	\$ 165,000	Tetra Tech Contract - \$122,709; CVWD - \$43,945 Tetra Tech- Paid to date - \$92,258; Remaining - \$30,451
7. Facilities & Planning						
Roof for Old Encinal - Storage Bldg		\$ 105,000	\$ 3,956	\$ -	\$ 3,956	Project Cancelled
F & P Total	\$ -	\$ 105,000	\$ 3,956	\$ -	\$ 3,956	FY 20/21 Unused Budget of \$108,956 put back into Water Fund Reserves
Capital Improvement Projects - Total	\$ 2,563,438	\$ 5,000,000	\$ 3,653,293	\$ 583,316	\$ 4,236,610	Facilities & Planning - Under Budget by \$101,044
						Under Budget - \$763,390 or 15%

Crescenta Valley Water District

FY 20/21 Capital Improvement Project

Capital Improvement Project Program	Budget FY 20/21	Final FY 20/21	Category	Bond (B) or PayGo (P)	Cumulative Estimated Costs	Completion Date	Project Description
Bond Proceeds							
Annual Pipeline Replacement - 1.0 Mile	\$ 2,300,000	\$ 1,924,636	Water Distribution	B	\$ 1,924,636	Jun-21	Pipeline Replacement - Pipelines that are greater than 50 years old - 5,280 LF
AMI - 3/4" to 1" - Smart Meters & AMI Communication Network	\$ 200,000	\$ 395,557	Technology	B	\$ 2,320,193	Jun-21	Advanced Metering Infrastructure (AMI) - 1) Install 1,000 3/4" or 1" water meters - in Zones 1 & 2 & 2) Install AMI Network Communication System
Steel Reservoir Rehabilitation - Rosemont	\$ 195,174	\$ 249,304	Water Storage	B	\$ 2,569,497	Feb-21	Reservoir Rehabilitation - Structural repairs and re-coating at Rosemont Reservoir during low demand (Winter) season (41% of total - Bond Financing; 59% of total - PayGo)
Bond Proceeds Subtotal	\$ 2,695,174	\$ 2,569,497					
Pay-Go							
PRS - Zone 2 to Zone 1/Upgrade - Ramsdell Mixing Station	\$ 600,000	\$ 26,677	Water Distribution	P	\$ 26,677	Jun-21	New Pressure Reducing Station & Upgrade Ramsdell Mixing Station - PRS for water from Zone 2 to zone 1 & Upgrade to Ramsdell Mixing Station
Replacement - SCADA System	\$ 610,000	\$ 109,033	Technology	P	\$ 135,710	Jun-21	Replacement of SCADA System - Replacement of RTU/PLC Equipment at 26 sites including equipment, programing, integration and testing
Well 12 Rehabilitation	\$ 95,000	\$ 154,050	Water Supply	P	\$ 289,761	Feb-21	Well Rehabilitation - Remove & Inspect Well Pump & Casing, Chemical Treatment Well Casing, Pump Test, New Pump & Motor
Replacement - SCADA Communication Radio Network	\$ 260,000	\$ 77,101	Technology	P	\$ 366,862	Jun-21	Replacement of SCADA Radio Communication System - Replace 900 MHz radios with upgraded 5.8GHz radios
FEMA Local Hazard Mitigation Plan	\$ 165,000	\$ 134,549	Public Safety/ Emerg. Resp.	P	\$ 501,411	Jun-21	FEMA Grant - \$125,000 grant , \$40,000 CVWD to prepare a local hazard mitigation plan
Annual Booster Pump Replacement	\$ 75,000	\$ 106,336	Water Distribution	P	\$ 607,747	Apr-21	Booster Pump Replacement - Replace 15-yr and older booster pump with new pump assembly and high efficiency motor - Replace 1 per year
Stormwater Recharge CVC Park - Planning	\$ 75,000	\$ 3,718	Water Supply	P	\$ 611,465	Jun-21	Stormwater Recharge - Concept plan, grant funding options and coordination with stakeholders
New Roof for Old Encinal - Storage Bldg	\$ 105,000	\$ 3,956	Facilities & Planning	P	\$ 615,421	May-21	Facilities - Installation of a new roof; convert old concrete reservoir to storage facilities bldg.
Rehabilitation Surge Tank at Glenwood	\$ 35,000	\$ -	Water Distribution	P	\$ 615,421	Apr-21	Rehabilitation of water surge tank - replacement of piping & appurtenances and recoating at Glenwood
Oak Creek - 16" Manifold Repair	\$ -	\$ 55,181	Water Storage	P	\$ 670,602	Nov-20	Oak Creek Reservoir - Repair to 16" manifold and new 16" Valves
Conversion to Chloramination	\$ -	\$ 54,073	Water Treatment	P	\$ 724,675	Aug-20	Conversion to Chloramination - Additional work at Well #2 & Pickens Canyon Tunnel
Steel Reservoir Rehabilitation - Rosemont	\$ 284,826	\$ 359,122	Water Storage	P	\$ 1,083,797	Feb-21	Reservoir Rehabilitation - Structural repairs and re-coating at Rosemont Reservoir during low demand (Winter) season. (41% of total - Bond Financing; 59% of total - PayGo)
Pay-Go Subtotal	\$ 2,304,826	\$ 1,083,797					
Total CIP	\$ 5,000,000	\$ 3,653,293					

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 2
August 31, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering
Subject: **Unplanned Project - upgrade of Zone 4 to Zone 3 Pressure Reducing Station at Foothill Blvd & Cloud Ave.**

BACKGROUND:

CVWD has an existing pressure reducing valve station (PRS) that automatically delivers water from Pressure Zone 4 (high pressure) to Pressure Zone 3 (low pressure) when additional water demands are needed in Zone 3, such as during peak water demands or for fire protection. The PRS was installed in the 1980's and is located in front of ACE Hardware Store, near the southwest corner of Foothill Blvd and Cloud Ave. The PRS was used from November 2020 to May 2021, when the Rosemont Reservoir was out of service during rehabilitation.

In June 2021, a leak developed on the existing pipeline inside the vault and CVWD's crew responded and shutdown the PRS. The crew discovered that the 8-inch steel pipeline from the PRS to Cloud Ave was in extremely bad condition and was taken out of service.

DISCUSSION:

The existing PRS has been in service for over 40 years and there are two (2) underground vaults, one with the pressure control valve and the other with piping. The photos show that the top of vaults has corroded over the years and crews have done minor repairs to make sure the lids are level with the sidewalk. The pressure control valve was serviced prior to the start of the Rosemont reservoir project and operated well through the rehabilitation project. The contractor, Hydrotech, advised that the pressure control valve was in bad condition and recommended that it be replaced. Also, when the PRS was in service, we were unsure about the amount of water that flowed through the PRS to meet Zone 3 demands, since there is no equipment to measure flow or to monitor the pressure.

Staff evaluated alternatives either to repair the piping or to upgrade the entire PRS to meet today's standards including a new pressure reducing valve, piping, vaults, and monitoring equipment. It was concluded from discussion with engineering and operations staff that since the PRS is a vital link in the water distribution system providing additional water flow from Zone 4 from Zone 3 and considering its current age and condition, the entire PRS should be upgraded.

The Engineering Department staff's time is currently dedicated towards implementation of the FY 21/22 CIP program. As this represents an unplanned project, the assistance of a consulting engineering firm is needed with design and implementation of this project. Staff met in the field with Gary Roepke and Tina Kuah from Cannon to go over a preliminary scope of work for upgrading the PRS.

Project Budget:

Cannon prepared a preliminary design scope of work with a budget of \$111,200 and staff prepared a preliminary construction cost estimate of \$418,800. This proposed project is not a budgeted FY 21/22 CIP project and the preliminary design and construction costs for the project are estimated to be \$530,000.

FY 21/22 Budget Review with Unplanned Project:

Staff reviewed the original 2-year \$10M CIP budget that includes the \$5M in bond proceeds versus the final FY 20/21 CIP costs to determine if there is funding available for this project. The FY 21/22 CIP budget was set at \$5.2M for the coming year. The 2-year total CIP projected costs will be about \$9.3M, which is less than the original \$10M. There is approximately \$700,000 available for this project.

Project Schedule:

Staff reviewed the project schedule with goal to complete the design in December 2021 and complete construction by July 2022 as shown in the schedule below.

Upgrade to Z4 to Z3 Pressure Reducing Station Project E-103X				
Task	State Date	End Date	Days	Comments
Field Mtg with Cannon	7/19/2021	7/21/2021	2	
Draft RFP from Cannon	7/21/2021	8/3/2021	13	
Staff Report for Eng. Committee	8/3/2021	8/27/2021	24	
Engineering Committee	8/27/2021	8/31/2021	4	
Staff Report	8/31/2021	9/9/2021	9	
Board Meeting - Award Contract	9/9/2021	9/14/2021	5	
Kickoff Mtg	9/14/2021	9/23/2021	9	
Preliminary Engineering	9/23/2021	11/1/2021	39	9 Weeks
Final Submittal	11/1/2021	12/7/2021	36	5 Weeks
Staff Report	12/7/2021	12/9/2021	2	
Board Meeting - Advertise For Bid	12/9/2021	12/14/2021	5	
Send out to Contractors	12/14/2021	12/15/2021	1	
Pre-Bid Meeting	12/15/2021	1/12/2022	28	
Bid Opening	1/12/2022	1/19/2022	7	
Staff Report	1/19/2022	1/21/2022	2	
Board Meeting - Award Contract	1/21/2022	1/25/2022	4	
Shop Drawings	1/25/2022	3/22/2022	56	8 Weeks
Fabrication - Vault	3/22/2022	5/2/2022	41	6 Weeks
Start Construction	5/2/2022	5/2/2022	0	
End Construction	5/2/2022	7/1/2022	60	8 1/2 Weeks
Punchlist	7/1/2022	7/8/2022	7	

RECOMMENDATION:

Since time is of the essence, staff is recommending proceeding with the design portion of the upgrade to the pressure reducing station at Foothill Blvd & Cloud Ave. After completion of design, staff will review the construction cost estimate and adjusting the FY 21/22 CIP. Staff is also recommending that an action item be placed on the next Board meeting to award a design contract to Cannon.

Prepared & Submitted by:



David S. Gould, P.E.
Director of Engineering

Attachments:

1. Preliminary Cost Estimate

New PRV - Zone 4 to Zone 3 Preliminary Design and Construction Cost Estimate					CVWD Costs			
ID No.	Description	Quantity	Unit Cost	Cost				
1	Excavation and Backfill (pipeline & appurtenances)	100 LF	\$100	\$10,000		HR	RATE	AMT
2	Resurfacing Trench	1,125 SF	\$10	\$11,250	BY	60	\$110	\$6,600
3	Install 8" CML & CMC Steel Water Pipeline	100 LF	\$110	\$11,000	JB	40	\$65	\$2,600
4	Install New 8" PRS Vault and appurtenant construction	1 LS	\$140,000	\$140,000	CO	20	\$75	\$1,500
5	Provide traffic control for the Project	1 LS	\$12,750	\$12,750	PH	10	\$80	\$800
	Subtotal			\$185,000	DG	10	\$135	\$1,350
	Contingency	20%		\$37,000	Permits	1	\$8,150	\$8,150
	Total Construction			\$222,000	TOTAL			\$21,000
SCADA/Electrical Upgrades					Consultant			
1	Mobilization	1 LS	\$3,000	\$3,000	Cannon	1	\$111,198	\$111,198
2	Power Source	1 LS	\$7,500	\$7,500	Principal	0	\$225	\$0
3	SCADA Cabinet	1 LS	\$2,500	\$2,500	Senior	0	\$195	\$0
4	RTU/PLC	1 LS	\$3,000	\$3,000	Staff	0	\$150	\$0
5	Conduits & Wiring	1 LS	\$7,500	\$7,500	Misc	1	\$802	\$802
6	Programing & Integration	1 LS	\$12,500	\$12,500	Subtotal			\$112,000
7	Misc	1 LS	\$10,000	\$10,000	Contingency		10%	\$11,200
	Subtotal			\$46,000	Total			\$123,200
	Contingency	20%		\$9,200	Inspection			
	Total Construction			\$55,200	Principal	40	\$225	\$9,000
Preliminary Design and Construction Costs					Senior	80	\$195	\$15,600
1	Construction			\$222,000	Staff (14 weeks)	560	\$120	\$67,200
2	SCADA/Electrical Upgrades			\$55,200	Misc	1	\$2,200	\$2,200
3	CVWD Costs			\$21,000	Subtotal			\$94,000
4	Consultant			\$123,200	Contingency		10%	\$9,400
5	Inspection			\$103,400	Total			\$103,400
6	Soils Engineering			\$3,000				
7	Misc			\$2,200				
	Subtotal			\$530,000				

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 3

August 31, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: Installation of a New Zone 7 to Zone 5 Pressure Reducing Station

BACKGROUND:

In 2019, the Glendale Unified School District (GUSD) inquired regarding the availability of water service for a new facility they were considering building at Clark Magnet High School (Clark).

GUSD was working with Glendale Water and Power (GWP), and it was found that there is not sufficient water supply and pressure in the area to provide fire protection for the proposed building by GWP. GUSD requested that Crescenta Valley Water District (CVWD) investigate whether CVWD had the infrastructure available to provide Clark with enough water supply and pressure for fire protection.

After consulting with Akel Engineering with respect to hydraulics in the area, staff determined that, with the installation of a new pressure reducing station between Zone 7 and Zone 5, a new fire service could be installed that would provide enough water availability to allow for the addition of a new robotics lab building at Clark. The new pressure reducing station will be located on the Southeast corner of the intersection of Santa Carlotta St. and Cloudsdale Ave. (see location map).

In addition, a new steel pipeline that connects the upper and lower zones to the new PRS will need to be constructed. The new vault will also include electrical/telemetry equipment for the operation and monitoring of the site. The PRS would be a new source of water into Zone 5 during times of high demand, such as for fire protection.

DISCUSSION:

Staff discussed with representatives from GUSD that CVWD will coordinate the design and construction of the project and that GUSD will reimburse CVWD for the entire cost of the project. In addition, GUSD requested that the new PRS be installed and place it into service before the 22/23 school year begins in Fall of 2022.

To facilitate GUSD's request, CVWD would need to hire a consulting firm to provide surveying and engineering design services for the installation of the new PRS with a new vault, new transmission main, and any other appurtenant materials. Additionally, the project requires that a new fire service lateral be constructed along the northside of Clark. As this represents an unplanned/unbudgeted project, the assistance of a consulting engineering firm is needed with design and implementation of this project and the design costs will be reimbursed by GUSD.

Staff sent a request for proposal (RFP), after discussing the scope of work with GUSD, to a group of preselected consultants on August 3, 2021. A pre-proposal meeting was held on August 12, 2021, with five (5) consulting engineering firms were in attendance and four (4) proposal were received on August 27, 2021

Engineering Firm	Proposal
Civiltec Engineering	\$39,880
MKN Associates	\$69,589
Tetra Tech	\$85,890
Cannon	\$102,679

Project Budget:

The preliminary cost estimate for this project is \$373,000 and since this request was made by GUSD, all costs associated with this Project will be paid for by GUSD. Staff will meet with GUSD to finalize the design and construction costs prior to any approvals by CVWD's Board of Directors.

Project Schedule:

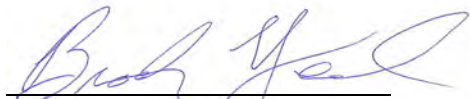
Staff reviewed the project schedule with the goal to complete the design in December 2021 and complete construction by April 2022 as shown below.

<u>Task</u>	<u>Date</u>
Pre-Proposal Meeting – Web Conference	August 12, 2021 – 10:00 am
Proposal Due	August 27, 2021
Award of Contract	September 14, 2021
Kick Off Meeting	September 16, 2021
Board Approval – Advertisement for Bids	November 19, 2021
Pre-Bid Meeting	December 1, 2021
Bid Opening	December 8, 2021
Board Approval – Award of Contract	December 14, 2021
Start Construction	January 3, 2022

RECOMMENDATION:

Since time is of the essence, staff is recommending after discussion with GUSD, to proceed with the design and installation for the new the pressure reducing station at Santa Carlotta and Cloudsdale for GUSD. Staff is also recommending that an action item be placed on the September 14, 2021, Board meeting to award a design contract to the highest rated consulting firm after staff. Prior to staff's recommendation, GUSD will provide their assessment and ranking of the proposals. Staff is also requesting that the FY 21/22 CIP be increased by an additional \$373,000 to cover the upfront cost of the project that CVWD will later be reimbursed by GUSD.

Prepared by:



Brook Yared, M.S., P.E.
Engineering Manager

Submitted by:



David S. Gould, P.E.
Director of Engineering & Operations

Attachments:

1. Location Map
2. Preliminary Cost Estimate



Legend

Existing System:

- wsvalve
- whyd
- wmain
- wlatline
- StreetCenterline

New 8-inch CMC x CML Steel Water Main

New Pressure Reducing Station w/ New H2O Vault

New Fire Service per CVWD Std Dwg 40-03 to service Clark Magnet High School

D-21-G2
Clark Magnet High School



Crescenta Valley Water District

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 4
August 31, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering
Subject: Update for FY 21/22 Capital Improvement Project Budget and Consultants

BACKGROUND:

Staff has been discussing the FY 21/22 Capital Improvement Project (CIP) budget with respect to the Long-Term Infrastructure and Funding Roadmap, including future financing through the PayGo option. The Board has tentatively agreed to the FY 21/22 CIP budget, and the following is an update of projects and status of design.

DISCUSSION:

There are several CIP projects that need the assistance of outside consultants to begin design services so that construction can start in October or November 2021 instead of starting after January 2022. Shown below are the proposed projects and status update:

1. Design consultant for the new pipelines on the 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thelma St.
 - a. ***Tetra Tech working with staff on potholing plan and pipeline alignment.***
2. Design consultant for a new Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station.
 - a. ***Staff reviewing preliminary design of Ramsdell Mixing Station Vault***
3. Design consultant for the steel reservoir rehabilitation at Edmund #2.
 - a. ***Harper & Associates Engineering finalizing design.***
 - b. ***Advertise for bid on September 14, 2021, Board Meeting***
4. Design consultant for the replacement of SCADA communication radio network.
 - a. ***Staff finalizing the Request for Quote (RFQ) for installation of new radios and antennas.***
 - b. ***RFQ to be sent out September 16, 2021, and due back on October 6, 2021***
5. Design consultant for the replacement of SCADA Equipment, Programming & Integration.
 - a. ***Staff working with Apex Manufacturing Services (APEX) on Pilot Program.***
6. Consultant to assist operations staff with conversion, monitoring and standard operating procedures for the conversion to chloramines.
 - a. ***Staff working on Request for Proposal.***
7. Consultant to prepare a Wastewater Master Plan, with Wastewater Treatment Plant Feasibility Study.
 - a. ***Staff working on preliminary Scope of Work.***

Staff will be bringing action items to future Board meetings for approval of consultant contracts. Staff is estimating about \$250,000 to \$300,000 of consulting fees will be spent prior to the October 2021 approval of the CIP budget.

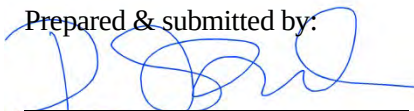
FY 2021/21 CIP Budget

See attached for updated CIP Budget

RECOMMENDATION:

Staff is recommending to the Engineering Committee that staff move forward with preparing and awarding design consultant contracts prior to the final adoption of the FY 21/22 CIP Budget.

Prepared & submitted by:



David S. Gould, P.E.
Director of Engineering & Operations

5-yr PayGo Pipeline - Pyramid - 20 yrs Bonds for Water Supply Projects Updated - 08/25/21		Recorded FY 19/20		Budget FY 20/21	Final FY 20/21		Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26
5-Year Capital Improvement Project Summary											
1. Water Supply	\$ 300,375			\$ 170,000	\$ 157,768		\$ 135,000	\$ 165,000	\$ 118,000	\$ 122,000	\$ 130,000
2. Water Storage	\$ 498,530			\$ 480,000	\$ 663,607		\$ 590,000	\$ 600,000	\$ 775,000	\$ 800,000	\$ 825,000
3A. Water Distribution - Pipeline - Pyramid - 20 yrs	\$ 1,126,030			\$ 2,300,000	\$ 1,924,636		\$ 3,152,865	\$ 3,130,000	\$ 3,730,000	\$ 4,440,000	\$ 5,320,000
3B. Water Distribution - Other	\$ 10,892			\$ 710,000	\$ 133,014		\$ 781,000	\$ 125,000	\$ 180,000	\$ 95,000	\$ 100,000
4. Water Treatment	\$ 469,205			\$ -	\$ 54,073		\$ 75,000	\$ -	\$ -	\$ -	\$ -
5. Technology	\$ 152,597			\$ 1,070,000	\$ 581,691		\$ 1,019,000	\$ 815,000	\$ 831,000	\$ 620,000	\$ -
6. Public Safety/Emergency Response	\$ 5,810			\$ 165,000	\$ 134,549		\$ 30,450	\$ 215,000	\$ 166,000	\$ 173,000	\$ -
7. Facilities & Planning	\$ -			\$ 105,000	\$ 3,956		\$ -	\$ 150,000	\$ -	\$ -	\$ -
Capital Improvement Projects - Total	\$ 2,563,439			\$ 5,000,000	\$ 3,653,293		\$ 5,783,315	\$ 5,200,000	\$ 5,800,000	\$ 6,250,000	\$ 6,375,000
Bond Financing - CIP	\$ -			\$ 2,695,174	\$ 2,569,497		\$ 2,304,826	\$ -	\$ -	\$ -	\$ -
Water Distribution - Pipeline Total							\$ 3,152,865	\$ 3,130,000	\$ 3,730,000	\$ 4,440,000	\$ 5,320,000
Remaining CIP							\$ 2,630,450	\$ 2,070,000	\$ 2,070,000	\$ 1,810,000	\$ 1,055,000
Water Fund Financing - CIP	\$ 2,563,439			\$ 2,304,826	\$ 1,083,796		\$ 3,478,489	\$ 5,200,000	\$ 5,800,000	\$ 6,250,000	\$ 6,375,000
Total Financing - CIP	\$ 2,563,439			\$ 5,000,000	\$ 3,653,293		\$ 5,783,315	\$ -	\$ -	\$ -	\$ 6,375,000

5-yr PayGo Pipeline - Pyramid - 20 yrs Bonds for Water Supply Projects Updated - 08/25/21		Recorded FY 19/20		Budget FY 20/21	Final FY 20/21		Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26
1. Water Supply											
A. Groundwater Water Supply											
i. Well Rehabilitation											
	Well 7 Rehabilitation	\$	102,696								
	Well 16 Rehabilitation	\$	103,713								
	Well 11 Rehabilitation	\$	14,694								
	Well 12 Rehabilitation										
	Well 14 Rehabilitation										
	Well Rehabilitation (1 Well per year)										
ii. New Wells											
	Re-Activate Well 2 - Construction	\$	79,272								
iii. Groundwater Basin Recharge											
	Stormwater Recharge Project at CVC Park - Planning										
	Storm water Recharge Project at CVC Park - Design										
WS Total		\$	300,375								
2. Water Storage											
A. Reservoir Rehabilitation											
i. Steel Reservoir Rehabilitation											
	Markridge	\$	498,530								
	Rosemont										
	Oak Creek - 16" Manifold Repair										
	Edmund #2										
	Goss Canyon #1										
	Goss Canyon #2										
	Shields										
	Eagle Canyon										
B. Reservoir Water Quality											
i. Water Quality Mixing System											
	Reservoir Mixing System - 2 Reservoirs										
	Reservoir Mixing System - 2 Reservoirs										
WS Total		\$	498,530								

5-yr PayGo Pipeline - Pyramid - 20 yrs Bonds for Water Supply Projects Updated - 08/25/21		Recorded FY 19/20		Budget FY 20/21	Final FY 20/21		Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26
3. Water Distribution											
A. Pipeline Replacement											
	3200 & 3300 Blocks of Brookhill	\$ 623,009									
	4700 & 4800 Block of Pennsylvania	\$ 503,021									
	FY 20/21 Pipeline Replacement			\$ 2,300,000	\$ 1,924,636		\$ 552,865				
	Annual Pipeline Replacement						\$ 2,600,000	\$ 3,130,000	\$ 3,730,000	\$ 4,440,000	\$ 5,320,000
C. Booster Pump System											
i. Annual Pump /Motor Replacement											
	Boosters - Glenwood 32 & 33	\$ 4,384									
	Boosters - Glenwood 32 & 33				\$ 85,951						
	Annual Booster Replace - 1 Booster			\$ 75,000	\$ 20,385		\$ 53,000	\$ 85,000	\$ 90,000	\$ 95,000	\$ 100,000
ii. Pump Station Upgrade											
	Paschall Booster Station - Technical Memorandum Study										
D. Pressure Reducing Stations											
	PRS - Zone 2 to Zone 1	\$ 6,508		\$ 150,000	\$ 26,677						
	PRS - Upgrade Zone 4 to Zone 3										
	New PRS - Zone 7 to Zone 5										
E. Miscellaneous Projects											
i. Water Surge Control											
	Rehabilitation Surge Tank at Glenwood			\$ 35,000	\$ -			\$ 40,000			
	Rehabilitation Surge Tank at Mills Plant										
ii. Street/Utility/ Meter Adjustment & Upgrade											
iii. Misc.											
	Upgrade - Ramsdell Mixing Station	\$ -		\$ 450,000	\$ -		\$ 728,000				
	Mills Plant - Aeration Tower							\$ 90,000			
F. Water Distribution Studies											
WD Total		\$ 1,136,922		\$ 3,010,000	\$ 2,057,650		\$ 3,933,865	\$ 3,255,000	\$ 3,910,000	\$ 4,535,000	\$ 5,420,000
4. Water Treatment											
A. Nitrate Removal											
C. Disinfection - Convert to Chloramines											
	Conversion to Chloramination	\$ 469,205		\$ -	\$ 54,073		\$ 75,000				
WT Total		\$ 469,205		\$ -	\$ 54,073		\$ 75,000	\$ -	\$ -	\$ -	\$ -

5-yr PayGo Pipeline - Pyramid - 20 yrs Bonds for Water Supply Projects Updated - 08/25/21		Recorded FY 19/20	Budget FY 20/21	Final FY 20/21	Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26							
5. Technology																
A. Automated Meter Information (AMI) System																
AMI - 3/4" to 1" - Smart Meters	\$	83,590	\$	50,000	\$	123,852	\$	233,000	\$	19,200						
1-1/2" & 2" Smart Meters							\$	250,800	\$	263,475	\$	16,250				
3" & 4" Smart Meters																
AMI - Meter Lids																
AMI - Communication			\$	150,000	\$	271,705										
AMI - Customer Service Interface							\$	87,000								
B. Supervisory Control and Data Acquisition (SCADA) System																
Communication Radio Network			\$	260,000	\$	77,101	\$	125,000								
SCADA Replacement - Design	\$	69,007														
SCADA Replacement - Installation			\$	610,000	\$	109,033	\$	374,000								
C. Graphical Information System (GIS)																
TECH Total	\$	152,597	\$	1,070,000	\$	581,691	\$	1,019,000	\$	815,000	\$	831,000	\$	620,000	\$	-
6. Public Safety/Emergency Response																
B. Water Storage																
Dunsmore/Pickens - Seismic Sensors	\$	5,810														
Ordunio - Seismic Sensors & Valve Actuators								\$	126,000							
Oak Creek #1 & #2 - Seismic Sensors & Valve Actuators										\$	146,000					
Encinal & Ocean View - Seismic Sensors & Valve Actuators												\$	150,000			
C. Security																
Security Cameras - Reservoir Sites										\$	44,000					
Security Cameras - Well Sites										\$	45,000	\$	20,000			
Security Cameras - Other Sites													\$	23,000		
D. Miscellaneous																
FEMA Local Hazard Mitigation Plan			\$	165,000	\$	134,549	\$	30,450								
SF/ER Total	\$	5,810	\$	165,000	\$	134,549	\$	30,450	\$	215,000	\$	166,000	\$	173,000	\$	-
7. Facilities & Planning																
D. Reservoir Site Improvements																
Roof for Old Encinal - Storage Bldg			\$	150,000	\$	3,956										
Facilities Maintenance Master Plan										\$	150,000					
F & P Total	\$	-	\$	105,000	\$	3,956	\$	-	\$	150,000	\$	-	\$	-	\$	-
Capital Improvement Projects - Total	\$	2,563,439	\$	5,000,000	\$	3,653,293	\$	5,783,315	\$	5,200,000	\$	5,800,000	\$	6,250,000	\$	6,375,000

Crescenta Valley Water District

FY 21/22 Capital Improvement Project Summary - Bond & PayGo Funding

Capital Improvement Project Program	Budget FY 21/22	Category	Bond (B) or PayGo (P)	Cumulative Estimated Costs	Completion Date	Project Description
Bond Financing						
Fy 21/22 Annual Pipeline Replacement & Carryover from FY 20/21	\$ 2,569,497	Water Distribution	B	\$ 2,569,497	Jun-22	Pipeline Replacement - Pipelines that are greater than 50 years old (82% Bond Financing & 18% PayGo)
Pay-Go						
Annual Pipeline Replacement - 1.0 Mile	\$ 583,368	Water Distribution	P	\$ 583,368	Jun-22	Pipeline Replacement - Pipelines that are greater than 50 years old (82% Bond Financing & 18% PayGo)
Steel Reservoir Rehabilitation - Edmund #2	\$ 590,000	Water Storage	P	\$ 1,173,368	Feb-22	Reservoir Rehabilitation - Structural repairs and re-coating at Edmund #2 Reservoir during low demand (Winter) season
Well 14 Rehabilitation	\$ 105,000	Water Supply	P	\$ 1,278,368	Mar-22	Well Rehabilitation - Remove & Inspect Well Pump & Casing, Chemical Treatment Well Casing, Pump Test, New Pump & Motor
Replacement - SCADA Communication Radio Network	\$ 374,000	Technology	P	\$ 1,652,368	Dec-22	Replacement of SCADA System - Pilot Program; final replacement of RTU/PLC Equipment including equipment, programing, integration and testing
Upgrade - SCADA Radio Communication	\$ 125,000	Technology	P	\$ 1,777,368	Jul-22	Replacement of SCADA Radio Communication System - Replace 900 MHz radios with upgraded 5.8GHz radios
Annual Booster Pump Replacement	\$ 53,000	Water Distribution	P	\$ 1,830,368	Apr-22	Booster Pump Replacement - Replace 15-yr and older booster pump with new pump assembly and high efficiency motor - Replace 1 per year
AMI - Install Smart Meters, 3" & 4" Meters and Customer Engagement Platform	\$ 520,000	Technology	P	\$ 2,350,368	May-22	Advanced Metering Infrastructure (AMI) - Install 3/4" & 1" Meters; install 3" & 4" meters (Grant Funding) & Customer Engagement Platform
Stormwater Recharge CVC Park - Planning	\$ 30,000	Water Supply	P	\$ 2,380,368	Jun-22	Stormwater Recharge - Concept plan, grant funding options and coordination with stakeholders
Conversion to Chloramines	\$ 75,000	Water Quality	P	\$ 2,455,368	Mar-22	Disinfection - Convert disinfection system from Free Chlorine to Chloramines
Upgrade to Ramsdell Mixing Station & New PRS - Zone 2 to Zone 1	\$ 728,000	Water Distribution	P	\$ 3,183,368	Jul-22	New Pressure Reducing Station & Upgrade Ramsdell Mixing Station - PRS for water from Zone 2 to Zone 1 & Upgrade to Ramsdell Mixing Station
Finalize - FEMA Local Hazard Mitigation Plan	\$ 30,450	Public Safety/Emergency Response	P	\$ 3,213,818	Nov-21	FEMA Grant - \$125,000 grant , \$40,000 CVWD to prepare a local hazard mitigation plan. Finalizing Project and apply from FEMA grants
Pay-Go Subtotal	\$ 3,213,818					
Total CIP	\$ 5,783,315					