

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, February 9, 2021 at 7:00 p.m.
Posted: Thursday, February 4, 2021 at 3:30 p.m.

AUDIO & VIDEO CONFERENCING NOTICE

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

Pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 18, 2020, the public may not attend the meeting in person.

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: 823-4265-2708

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/82342652708>

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 February 9, 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.

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 January 26, 2020.

Action Calendar

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

1. **New Emergency Electrical Generator at the La Granada Wastewater Lift Station, Project S-962**
 - a) Consideration and motion to authorize the General Manager to award a contract to the lowest responsible bidder, Affordable Generator Services, Inc. for the installation of a new emergency electrical generator at the La Granada wastewater lift station at a cost of \$192,235.06 and establish a contingency amount of \$19,224 (10% of contract) to cover the cost of unforeseen or additional work.
 - b) Consideration and motion to authorize the General Manager to enter into an agreement with APEX Manufacturing Solutions for SCADA programming and integration for the project at a cost not-to-exceed \$12,840.
 - c) Consideration and motion to authorize the General Manager to enter into an agreement with Cannon for the Construction Management and Inspection services for the project at a cost not-to-exceed \$64,160.
 - d) Request to transfer an additional \$50,000 from the Wastewater reserve fund to the Wastewater Capital Improvement Project (CIP) program to complete Project S-962.
2. **Local Hazard Mitigation Plan, Project M-1004** – Discussion and Status of CVWD's Local Hazard Mitigation Plan, Project M-1004.

Information Items

Written Communications to District/Board of Directors

General Manager's Report

Attorney Report

Reports of Committees

- | | |
|-------------------------|--------------------------------|
| • Engineering Committee | • Employee Relations Committee |
| • Finance Committee | • Policy Committee |

- Community Relations/Water Conservation Committee
- Emergency Planning 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

January 26, 2021

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District made at the Regular Meeting on January 12, 2021, an Adjourned Regular Meeting was held on January 26, 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 Engineering: **David Gould**

Staff Members:
Christy Colby, Regulatory & Public Affairs Manager
Dennis Maxwell, Director of Operations
Brook Yared, Engineering Manager
Arturo Montes, Finance & Administration Manager
Wendy Holloway, Customer Service Manager
Pam Leddy, Administrative Assistant
Tessa Allmon, Customer Service Representative

Public Participation:

PLEDGE OF ALLEGIANCE

Director Tejeda opened the meeting by leading the Directors and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Tejeda, seconded by Director Erickson, and carried by a 5-0 roll call vote that the Agenda for the Adjourned Regular Meeting of January 26, 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 – No report

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 Regular Board Meeting held on January 12, 2021 through audio and video conference and to ratify the disbursements for December 2020 as presented.

Payment of demands against the Crescenta Valley Water District on or before December 2020, 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 Seven-Hundred Twenty-Two Thousand, Forty-Two Dollars and Forty-Six Cents (722,042.46), 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

Acceptance of Audited Financial Statements for Fiscal Year 2019-20 – Mr. Montes presented the final draft of the FY 2019-20 Audited Financial Statements provided by Clifton Larsen Allen (CLA). This report ensures that CVWD's financial position is accurately stated and that the District's internal controls are working appropriately. Ms. Renee Graves of CLA gave a high-level summary of the report and rendered an "unqualified opinion", the highest available opinion for a financial audit. Edits for the President and Vice President of the Board positions and a spelling edit will be on pages 2 and 5, respectively.

Following discussion:

It was moved by Director Bodnar, seconded by Director Raghavachary, and carried by 5-0 roll call vote to accept the Audited Financial Statements for Fiscal Year 2019-20 with the above-notated edits.

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

NOES: None

Second Quarter Budget Report – Mr. Montes opened a discussion regarding CVWD’s Second Quarter Budget Report on revenues and expenditures for the fiscal year ending June 30, 2021. Mr. Montes stated that at this time, the water fund is projected to add approximately \$1.3M to reserves by year end, based primarily on 6 months of strong water sales. The wastewater fund is tracking well with the budget, which is currently projected to draw \$293K less from reserves by year end than originally projected. Reports were provided containing notable variances for each department’s budget.

8-inch Water Main Replacement on the 4800 Block of Dyer, 2800 Block of El Caminito St., 4800 Block of Glenwood Ave., 2800 Block of Stevens., and 2700 Block of Paraiso Way – Project 4, Project E-1022 – Mr. Yared requested consideration and motion to award a contract for the final pipeline replacement project which was included as part of the FY 2019/20 CIP budget. The pipelines on the 4800 Block of Dyer Ave, 2800 Block of El Caminito St., 4800 Block of Glenwood Ave., 2800 Block of Stevens St., and 2700 Block of Paraiso Way were installed in the 1950s have exceeded their useful life. Mr. Yared noted that staff reviewed the bids received at the mandatory pre-bid meeting on January 6, 2021, which was attended by nine (9) contractors. The apparent lowest responsible bidder was Robert Bkrich, Inc.

Following discussion:

It was moved by Director Bodnar, seconded by Director Tejeda, and carried by 5-0 roll call vote to award the contract for the subject project to the lowest responsible bidder, Robert Bkrich, Inc., at a cost of \$455,675 and establish a 10% contingency amount of \$45,567 (10% of contract) to cover the cost of unforeseen or additional work.

It was moved by Director Bodnar, seconded by Director Tejeda, and carried by a 5-0 roll call vote to award a contract to Dudek for Construction Management and Inspection services for the pipeline replacement project at a cost not to exceed \$123,640, provided that the General Manager may award the contract to a different firm at a lower price.

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

NOES: **None**

Well Pump Replacement and Casing Rehabilitation of Well 12, Project E-1029 – Mr. Yared discussed the additional water production and efficiency the District would gain by rehabilitating Well 12 located at the Glenwood Plant. Mr. Yared stated that currently, Well 12 can produce between 90-100 gpm, and by changing operations with a smaller pump and motor assembly, Well 12 would work more efficiently under the current conditions. Mr. Yared anticipates work to begin at Well 12 in mid-March 2021 and estimates that the Project will be completed by the end of May 2021.

Following discussion:

It was moved by Director Bodnar, seconded by Director Tejeda, and carried by 5-0 roll call vote to authorize the General Manager to advertise for bids for Well Pump Assembly Replacement and

Casing Rehabilitation for Well 12, Project E-1028 with an engineering cost estimate of \$88,200 and to find said project exempt from the provisions of the California Environmental Quality Act (CEQA).

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

NOES: **None**

INFORMATION ITEMS – None

WRITTEN COMMUNICATIONS TO DISTRICT – None

REPORTS OF PERSONNEL – No report

GENERAL MANAGER – Mr. Ochoa announced CVWD’s participation in the “21 Day Racial Equity and Social Justice Challenge” which is sponsored by the Glendale YWCA. Mr. Ochoa highlighted the addition of a Bond Logo being used on signage for all bond projects and an ad placed in the CV Weekly to inform the community on the progress of such projects. CVWD employees assisted a local Eagle Scout project to collect jackets for the homeless thru “LA on Cloud 9”. Mr. Lee provided reviewed the Dashboard and associated finance, administration, and public outreach activities and statistics for December 2020. Ms. Colby provided updates on social media and website traffic, survey respondents for the Local Hazard Mitigation Program, and an update on the Everbridge program which is intended as a platform for emergency updates and public outreach.

ATTORNEY – No report

REPORTS OF PERSONNEL – None

REPORTS OF COMMITTEES

Engineering Committee – Director Raghavachary reported that the Committee had not met. An audio/video conference meeting is scheduled for January 27, 2021.

Finance Committee – Director Raghavachary reported that the Committee had met on January 25, 2021. 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 meeting will be scheduled as needed.

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

Community Relations/Water Conservation Committee – Director Erickson reported that the Committee had not met; however, an audio/video conference meeting 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.

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 – Completed Ethics AB1234 training thru the FPPC website and shared the resource with the Board.

Director Erickson – No report

Director Putnam – No report

Director Tejeda – No report

CLOSED SESSION – Section 54956.9 – The Board approved a Tolling Agreement with BKK Working Group regarding waste disposal at the toxic waste site.

BOARD MEMBERS' REQUESTS FOR FUTURE AGENDA ITEMS – None

ADJOURNMENT

There being no other business to come before the Board, at 8:30 p.m., it was moved by Director Erickson, seconded by Director Bodnar, and carried by a 4-0 roll call vote that the meeting be adjourned to February 9, 2020, at 7:00 p.m.

AYES: **Director Raghavachary**
 Director Bodnar
 Director Erickson
 Director Tejeda

NOES: **None**

ABSENT: **Director Putnam**

APPROVED

Sharon S. Raghavachary
President

James Lee
Director of Finance & Administration

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No.1
February 9, 2021

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – Director of Engineering
Subject: Award of Contract - New Emergency Electrical Generator at the La Granada Wastewater Lift Station, Project S-962

ACTION ITEM:

New Emergency Electrical Generator at the La Granada Wastewater Lift Station, Project S-962:

- a) Consideration and motion to authorize the General Manager to award a contract to the lowest responsible bidder, Affordable Generator Services, Inc. for the installation of a new emergency electrical generator at the La Granada wastewater lift station at a cost of \$192,235.06 and establish a contingency amount of \$19,224 (10% of contract) to cover the cost of unforeseen or additional work.
- b) Consideration and motion to authorize the General Manager to enter into an agreement with APEX Manufacturing Solutions for SCADA programming and integration for said project at a cost not-to-exceed \$12,840.
- c) Consideration and motion to authorize the General Manager to enter into an agreement with Cannon for construction management and inspection services for said project at a cost not-to-exceed \$64,160.
- d) Request to transfer an additional \$50,000 from the Wastewater reserve fund to the Wastewater Capital Improvement Project (CIP) program to complete Project S-962.

BACKGROUND:

CVWD has an existing wastewater lift station located at 1901 La Granada Way, next to Glenhaven Park, that collects sewage from about 35 homes. The wastewater lift station has a capacity of about 3,000 gallons and typically operates for about an hour a day to pump wastewater into the collection system. In case of an emergency, such as loss of electrical power, the lift station can hold wastewater for about 2 – 5 hours, depending on the time of day or night, before it will overflow into the street. To reduce the risk of a sewer overflow, alarms have been set to alert stand-by duty personnel and the Director of Operations, via text and phone, of a potential overflow. However, there could be a time lag between when personnel are first alerted to a power outage to when a portable emergency electrical generator can be deployed to the site, which could result in a sewer overflow. Therefore, staff recommended adding a new emergency electrical generator at the lift station as part of the FY 20/21 Wastewater CIP program.

DISCUSSION:

On December 8, 2020, the Board authorized the General Manager to advertise for bids for the subject project. A mandatory pre-bid meeting was held on January 21, 2021 and was attended by four (4) contractors. CVWD specifications indicate that only contractors who attend this meeting were allowed to bid on the project.

On February 3, 2021, at 2:00 PM, the District opened and read the following bid proposals.

	<u>Bidder</u>	<u>Total Bid Amount</u>
Low	Affordable Generator Services, Inc.	\$192,235.06
2	Taft Electric Company	\$226,856.00
3	Baker Electric, Inc.	\$285,192.00

Staff has reviewed the submitted bids and determined that Affordable Generator Services, Inc., of Santa Fe Springs, CA was the lowest responsible bidder for the project. The engineer's estimate was \$171,000 and the low bid was \$192,235.07 or 12.4% greater than the engineer's estimate.

Affordable Generator Services submitted all proper documentation to the District. The references provided to the District found the contractor to have carried out similar projects on schedule, in a professional manner, with a high standard of workmanship. Staff has also worked with Affordable Generator Services on past projects that have all been successfully completed, including the installation of the stationary emergency electrical generator at the Main Office.

SCADA Programing & Integration:

Staff requested a proposal from APEX Manufacturing Solutions (APEX) to provide programing and integration of the new emergency electrical generator into CVWD's main SCADA system. This will allow staff to monitor the status of the generator, provide alerts where there is a power outage and upgrade the monitoring and alarms for the lift station. APEX's proposed fee for the project is \$12,840 and this should be completed by June 2021.

Construction Management & Inspection Services:

Staff requested a proposal from Cannon to provide construction management and inspection support (CM&I) services for this project. The proposal was based on the proposed construction schedule and CVWD's need for full-time inspection services. Cannon's proposed fee for the project is \$64,160, which covers the construction period from March 2021 to June 2021.

RECOMMENDATION:

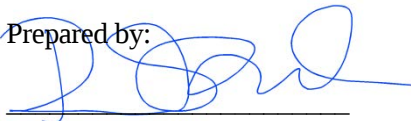
It is staff's recommendation to award the contract for the subject project to the lowest responsible bidder, Affordable Generator Services and to enter into agreements with APEX for necessary SCADA upgrades and Cannon for CM&I services.

FUNDING AVAILABILITY:

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

Account Description	Project Costs
FY 20/21 Wastewater CIP Budget	\$175,000
Transfer funds from Wastewater Reserves (Approved 12/8/20)	\$160,000
Revised Project Budget	\$335,000
Construction Costs	(\$192,235)
10% contingency	(\$19,224)
Cannon - Design Services	(\$86,996)
Cannon - Construction Management Services	(\$64,160)
APEX - SCADA - Programing & Integration	(\$12,840)
Contact Administration, Soils Engineer & Misc. Costs	(\$6,000)
Construction /Design Cost - Total Cost Estimate	(\$381,455)
Request Additional Transfer funds from Wastewater Reserves	\$50,000
Amount Remaining in FY 20/21 Wastewater CIP	\$3,545

Prepared by:



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

Attachments:

1. Bid Summary

Submitted by:



Nem Ochoa
General Manager

CRESCENTA VALLEY WATER DISTRICT

Title: Construction of Emergency Electrical Generator at La Granada
Wastewater Lift Station

E-Job No: S-962

Engineer's Estimate: \$171,000

Project Manager: David S. Gould

BID LOCATION: CVWD's Office

TIME: 2:00 PM

DATE: 2/3/21

BY: JB

CHECKED: DSG

			Engineers Estimate		Affordable Generator Services		Taft Electric Company		Baker Electric, Inc.	
ITEM	DESCRIPTION	QUANTITY	UNIT	AMOUNT	UNIT	AMOUNT	UNIT	AMOUNT	UNIT	AMOUNT
1	Mobilization	Lump sum		\$10,000.00		\$21,972.77		\$6,986.00		\$8,380.00
2	Installation of New Emergency Electrical Generator	Lump sum		\$63,500.00		\$25,020.60		\$61,862.00		\$53,025.00
3	Site Improvements	Lump sum		\$20,500.00		\$28,249.61		\$24,244.00		\$35,758.00
4	Perimeter Fencing and Man-gates	Lump sum		\$10,000.00		\$31,892.79		\$36,552.00		\$101,322.00
5	Electrical Equipment and Conduit and Wiring	Lump sum		\$42,500.00		\$51,395.01		\$58,327.00		\$61,574.00
6	Landscape and Irrigation	Lump sum		\$24,500.00		\$33,704.28		\$38,885.00		\$25,133.00
			EE	\$171,000.00	LOW	\$192,235.06	2ND	\$226,856.00	3RD	\$285,192.00



Project Description:

Crescenta Valley Water District (CVWD) places the greatest importance on the safety and well-being of residents and businesses being served by CVWD's sewer collection system in the City of La Canada Flintridge.

To maintain sewer service during a power outage, CVWD is installing an emergency electrical generator at the Wastewater Lift Station.

Currently, when power is lost, an emergency generator must be brought on-site by CVWD crews to keep the lift station in operation. In the time that it takes to get the portable emergency generator on-site, the wet well at the lift station could reach capacity, causing the sewer to overflow onto the street and into the storm drain system.

Installation of a new permanent electrical generator will keep the lift station operational during power outages so that the wastewater pumps remain in service.

About the Crescenta Valley Water District:

The mission of the Crescenta Valley Water District is to provide quality water and wastewater services to the Crescenta Valley community in a dependable and economically responsible manner.

In carrying out this mission, the District places special emphasis on delivering a high quality water supply and system reliability at the most reasonable cost to its ratepayers.

The District endeavors to promote conservation of its resources and to perform all operations in the most efficient manner to meet the needs of the community.

Construction Time Frame:

The project is scheduled to start in March 2021 and is estimated to be completed in May 2021. Schedule and dates are subject to change.



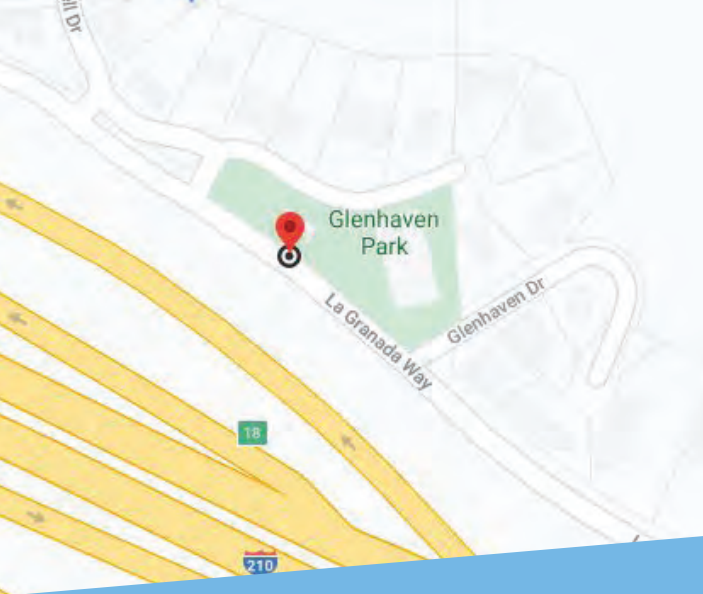
Contact:

2700 Foothill Blvd
La Crescenta, CA 91214
818-248-3925
customerservice@cvwd.com

FOLLOW-UP TO OCTOBER 8, 2020 COMMUNITY MEETING



La Granada Sewer Lift Station Installation of a New Emergency Electrical Generator



Community Meeting Outcome:

CVWD took your input from the October 8th Community Meeting and revised the plans for the installation of the Emergency Generator. The perspectives shown in this brochure reflect the revised plans.

Another Community Meeting will not be held. If you have additional comments please send them to the District office or email them to David Gould at DGould@CVWD.COM before December 2nd, 2020.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
February 9, 2021

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – Director of Engineering
Subject: Status - Local Hazard Mitigation Plan, Project M-1004

ACTION ITEM:

Local Hazard Mitigation Plan, Project M-1004 – Discussion and Status of CVWD’s Local Hazard Mitigation Plan, Project M-1004

BACKGROUND:

The California Governor’s Office of Emergency Services (Cal OES), in conjunction with the Federal Emergency Management Agency (FEMA), made funds available through its 404 Hazard Mitigation Grant Program (HMGP) for public agencies to prepare a local hazard mitigation plan (LHMP). The LHMP will outline potential high priority hazards area within CVWD’s service area and designates possible projects that could be implemented to reduce CVWD’s risk during a natural or man-made event such as drought, water shortage, energy shortage/outage, wildfire, earthquake, terrorism, and cyber-attack.

In April 2020, CVWD received notification from Cal OES that FEMA has approved CVWD’s application to prepare a LHMP under the HMGP. The total eligible cost was \$166,653, with FEMA responsible for 75% of the grant (\$124,990), CVWD is responsible for 25% of the grant (\$41,664), and the LHMP must be completed by February 20, 2023.

In August 2020, CVWD awarded a consultant contract to Tetra Tech, Inc for \$122,709 to prepare the LHMP. Tetra Tech team members have extensive experience preparing LHMP throughout the country and just completed similar projects for East Orange Water District, the City of Los Angeles and Los Angeles County, Department of Public Works.

DISCUSSION:

The goals of the LHMP include the following:

- **Hazard Mitigation Steering Committee (HMSC):** District to organize a HMSC that will include representatives from each participating jurisdiction; staff with other local, state, and federal agencies; take the “whole community” approach including members of the public; and may also include a cross-section of the community, such as residents, private nonprofit organizations, community leaders, and business owners.
- **Detailed Risk Assessment Plan:** Develop a plan to understand the risk and vulnerability of identified natural hazards and to provide a basis for hazard mitigation strategy development. The risk assessment will include 1) prioritization of the hazards that have occurred within the District, 2) maps that delineate areas affected by hazards and identify locations of local assets, 3) develop an overview of the District’s vulnerability to specific hazards, and 4) capability assessment that will inventory existing plans, policies, and procedures that the District has in place to temper the effect of hazards.
- **Development of Mitigation Strategy:** Develop a strategy to address the District’s exposure to identified hazards. This will require meetings of the HMSC and include 1) developing mitigation goal statements that focus on reducing the risk and vulnerability from the identified hazards, 2) developing a comprehensive range of specific mitigation action items being considered to reduce the effects of each hazard, based on the risk assessment, and 3) prepare a plan ensuring that required components are included in the plan.
- **Develop Projects for Future FEMA Grants:** Develop projects that would be eligible for Building Resilient Infrastructure and Communities (BRIC) grant funding through FEMA’s Hazard Mitigation Assistance (HMA) grant funding program.

Tetra Tech and staff started meeting in September 2020 and developed the Core Planning Team (CPT), which consisted of team members from Tetra Tech, John Robinson Consulting, and CVWD. The focus of the CPT is to create goals, objectives, and a mission statement for the Steering Committee (SC) and identify the hazards to be included in the LHMP. The CPT also assembled the SC with potential members and created ground rules for the meetings.

Steering Committee:

The role of the Steering Committee is to support and advise the CPT through the Local Hazard Mitigation Plan process that results in a Plan that can be embraced both politically and by the constituency with respect to the resiliency of the Crescenta Valley community during a hazard event. The SC includes CVWD Board of Director members, public agencies such as Los Angeles County, City of Glendale, and City of La Canada Flintridge, water agencies such as FMWD and La Canada Irrigation District, local groups such as Crescenta Valley Town Council, Crescenta Valley Fire Safety, Community Emergency Response Team, and the Community at large as shown on the attached Steering Committee members list.

The Steering Committee started meeting in October 2020 and has met four (4) meetings to date. The meeting minutes can be found on CVWD's website. The SC elected Director Sharon Raghavachary as Committee Chairperson and Harry Leon, President, CV Town Council as Vice-Chairperson. The SC also completed the following:

- Confirmed the number of SC committee members (11 total) and established ground rules.
- Adopted **Six goals** for the District's Local Hazard Mitigation Plan as listed below:
 1. Protect life and property.
 2. Maintain continuity of essential water and sewer services.
 3. Increase public awareness of the risk of loss of water/sewer service.
 4. Facilitate partnerships with recognized stakeholders within the Crescenta Valley and implement a coordination plan between the stakeholders.
 5. Protect local water supply sources.
 6. Protect against environmental consequences caused by water and sewer system failure initiated by natural hazards.
- Adopted the following **Plan Objectives**:
 1. Implement activities that assist in protecting lives by making CVWD's infrastructure, critical facilities, and other properties more resistant to natural hazards.
 2. Protect water quality and supply.
 3. Properly address aging infrastructure issues to reduce/minimize future hazards and disasters.
 4. Raise awareness and communicate to the Crescenta Valley Community about the risks to District assets.
 5. Leverage grant funding and low interest loan programs to implement hazard mitigation capital projects.
 6. Establish policies to ensure mitigation projects are prioritized for critical facilities, services, and infrastructure.
 7. Create, rehabilitate, enhance, and preserve local ecosystems to serve as natural hazard mitigation functions.
- Reviewed the work plan to identify local natural and man-made hazards in the La Crescenta-Montrose area and the cities of La Cañada Flintridge, and Glendale, including:

☒ Earthquakes	☒ Severe Weather (Rain, Wind, Hail)
☒ Landslides and Debris Flows	☒ Wildfires
☒ Floods	☒ Dam Failure
☒ Drought	
- Reviewed public involvement in the process, including preparing, and emailing a LHMP survey to CVWD customers (See attached survey results), advertisement in CV Weekly, etc.

- Staff put together a web page (<https://www.cvwd.com/local-hazard-mitigation-plan>) on CVWD's website that explains the LHMP, the goals & objectives, the mission statement & vision, list of the Steering Committee & Core Planning Team members, Steering Committee Ground Rules, Frequently Asked Questions, Steering Committee meeting notes and a form for the community to ask questions or provide comments.
- Reviewed preliminary hazard profiles relative to an earthquake event (similar to the 1994 Northridge Quake) and the District's exposure to potential damage and/or loss in terms of probability and replacement costs.

Next Steps:

- Next Steering Committee Meeting – February 17, 2021 at 3:00 pm
- Staff and Tetra Tech are planning for a Public Meeting in March or April to present the findings of the hazard profiles and the District's exposure for public comments.
- Tetra Tech is conducting hazard analysis for the identified hazards using FEMA's HAZUS program, including earthquake and flood modeling. Additionally, Tetra Tech is utilizing the best available data that address wildfire issues.
- Working with CVWD, Tetra Tech is helping the District identify Lifelines (formerly critical facilities). This is coupled with developing action items. It will help position the District to develop projects that could be eligible for grant funding.

Prepared by:



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

Submitted by:



Nem Ochoa
General Manager

Attachments:

1. Steering Committee members list
2. Local hazard mitigation plan survey

M-1004 CVWD LHMP - Distribution List

ID No.	First Name	Last Name	Title	Company Name
Steering Committee				
1 Chair	Sharon	Raghavachary	Board Member	Crescenta Valley Water District
2 Vice-Chair	Harry	Leon	President	Crescenta Valley Town Council
3	James	Bodnar	Board Member	Crescenta Valley Water District
4	Paul	Dutton	CERT Program	Dutton Real Estate
5	Ken	Herman	District Engineer	Foothill Municipal Water District
6	Doug	Caister	General Manager	La Cañada Irrigation District
7	Shahan	Atmajian	EOC Coordinator	City of La Canada Flintridge
8	Brian	Hodge	President	Crescenta Valley Fire Safe Council
9	Michael	De Ghetto	Chief Assistant General Manager	Glendale Water and Power
10	Dan	Hardgrove	Deputy Director of Public Works/Field Services	City of Glendale, Public Works
11	David	Weeshoff	San Fernando Valley Audubon Society Conservation Chair	Retired

M-1004 CVWD LHMP - Distribution List

ID No.	First Name	Last Name	Title	Company Name
Core Planning Team				
12	Rob	Flaner	Hazard Mitigation Program Manager	Tetra Tech, Inc.
13	Desmian	Alexander	Profiling Lead and Junior Planner	Tetra Tech, Inc.
14	Bart	Spencer	Lead Project Planner	Tetra Tech, Inc.
15	Carol	Baumann	Risk Analyst/Assessment Lead	Tetra Tech, Inc.
16	David	Gould	Director of Engineering	Crescenta Valley Water District
17	Brook	Yared	Senior Engineer	Crescenta Valley Water District
18	Nem	Ochoa	General Manager	Crescenta Valley Water District
19	Christy	Colby	Regulatory and Public Affairs Manager	Crescenta Valley Water District
20	Dennis	Maxwell	Director of Operations	Crescenta Valley Water District
21	James	Lee	Director of Finance and Administration	Crescenta Valley Water District
22	Jennifer	Bautista	Intern for Engineering	Crescenta Valley Water District
23	John	Robinson	Grant Administrator	John Robinson Consulting, Inc.

Local Hazard Mitigation Survey - Final Results

Constant Contact Survey Results

Survey Name: Haz Mitigation Plan
Response Status: Partial & Completed
Filter: None
Jan 07, 2021 2:46:40 PM

1. What natural hazard have you experienced or been affected by in the past 3 years? (Check all that apply)

	Number of Response(s)	Response Ratio
None	12	5.7%
Pandemic	173	83.5%
Drought	121	58.4%
Earthquake	73	35.2%
Flooding Landslide/ Debris Flow	4	1.9%
Severe Weather (wind, lightning, extreme cold or heat, winter storm, etc.)	97	46.8%
Wildfire	78	37.6%
Other	3	1.4%
Total	207	100%

2. What man-made hazard have you experienced or been affected by in the last 3 years? (Check all that apply)

	Number of Response(s)	Response Ratio
Critical Infrastructure Failure (utility, transportation, electrical or	28	13.7%
Hazardous Materials (spill or release)	2	<1%
Cyber Attack or Security Incident	16	7.8%
Planned/Unplanned Power Outage	141	69.1%
Planned/Unplanned Water Outage	16	7.8%
Terrorism	0	0.0%
None	53	25.9%
Other	6	2.9%
Total	204	100%

3. How prepared are you to deal with a disaster or big emergency, particularly water disruption? (Select One)

	Number of Response(s)	Response Ratio
Not prepared at all	24	11.5%
Just a little	66	31.8%
Average	81	39.1%
Above prepared	26	12.5%
Very prepared	10	4.8%
No Responses	0	0.0%
Total	207	100%

4. What resources have helped you become more prepared for local emergencies and disasters? (Check all that apply)

	Number of Response(s)	Response Ratio
Community Emergency Response Training (CERT) or other disaster training	43	20.9%
News or another media source	110	53.6%
Attended meetings with disaster preparedness information	36	17.5%
Emergency preparedness information from the government (write name of	31	15.1%
Emergency preparedness information from your local utility (write in name of	27	13.1%
Experience from past disasters	101	49.2%
Schools	18	8.7%
None	20	9.7%
Other	44	21.4%
Total	205	100%

Local Hazard Mitigation Survey - Final Results

5. Which of the following have you done to prepare for a disaster? (Check all that apply)

	Number of Response(s)	Response Ratio
Taken First Aid/CPR Training	97	47.0%
Made a fire escape plan	83	40.2%
Identified an evacuation meeting place	58	28.1%
Identified utility shutoffs	158	76.6%
Identified out-of-state contact	78	37.8%
Made a disaster supply list	66	32.0%
Installed smoke and carbon monoxide detectors on each level of the house	178	86.4%
Written and practiced your family disaster plan	16	7.7%
Stored food and water	137	66.5%
Neighborhood preparedness/planning	16	7.7%
Purchased satellite phone for emergency communications	10	4.8%
Stored extra flashlights and batteries, radio or fire extinguisher	157	76.2%
Stored extra medical supplies (first aid kit, medications)	124	60.1%
None	3	1.4%
Other	10	4.8%
Total	206	100%

6. How concerned are you about the following natural hazards? (Check one for each hazard)

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.

	Not Concerned	Somewhat Concerned	Concerned	Very Concerned	Extremely Concerned
Pandemic	11 5%	36 18%	50 25%	50 25%	57 28%
Drought	19 9%	54 27%	52 26%	45 22%	33 16%
Earthquake	5 2%	44 22%	69 34%	51 25%	33 16%
Flooding	103 52%	51 26%	29 15%	13 7%	4 2%
Hazardous Materials	94 47%	58 29%	31 16%	10 5%	5 3%
Landslide/Debris Flow	91 45%	58 29%	37 18%	10 5%	6 3%
Wildfire	8 4%	35 17%	43 21%	58 28%	60 29%
Terrorism	63 32%	76 38%	31 16%	20 10%	9 5%
Severe Weather	35 18%	64 32%	50 25%	35 18%	16 8%
Climate Change	38 19%	36 18%	36 18%	39 20%	51 26%

7. How concerned are you about the following man-made hazards? (Check one for each hazard)

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.

	Not Concerned	Somewhat Concerned	Concerned	Very Concerned	Extremely Concerned
Cyber Attacks	19 9%	51 25%	65 32%	41 20%	29 14%
Critical Infrastructure failures	15 7%	51 25%	62 31%	43 21%	32 16%
Hazardous Material (spills or releases)	47 24%	69 35%	45 23%	25 13%	14 7%
Planned/Unplanned Power Outage	16 8%	53 26%	74 36%	40 20%	22 11%
Planned/Unplanned Water Outage	10 5%	67 33%	58 29%	40 20%	26 13%

Local Hazard Mitigation Survey - Final Results

8. In your opinion, what are the most effective ways of providing education on emergency preparedness? (Check all that apply)

	Number of Response(s)	Response Ratio
Newspaper	72	34.9%
CVWD Website	80	38.8%
Facebook	58	28.1%
Public Meetings/Workshops/Community Safety Fairs	70	33.9%
TV	109	52.9%
Radio	61	29.6%
Internet	157	76.2%
Fire Department	82	39.8%
Sheriff's Department	74	35.9%
CERT Classes	44	21.3%
Public Awareness Campaign (Great ShakeOut, Winter Storm Preparedness	94	45.6%
Schools	86	41.7%
Public Library	34	16.5%
American Red Cross	37	17.9%
Word of mouth (neighbors)	79	38.3%
Government Agency (specify below)	14	6.7%
Crescenta Valley Fire Safe Council	34	16.5%
Other	18	8.7%
Total	206	100%

9. How prepared do you think CVWD is to provide you with water service following a disaster?

Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.

	Not prepared at all	Somewhat prepared	Prepared	More than Prepared	Very Prepared
	16	69	89	18	5
	8%	35%	45%	9%	3%

10. If water service was temporarily disrupted, how long could you continue without any drinking water? (Select One)

	Number of Response(s)	Response Ratio
1-3 days	85	41.0%
3-5 days	50	24.1%
5-7 days	34	16.4%
More than 7 days	36	17.3%
No Responses	2	<1%
Total	207	100%

11. How would you expect to be notified in case of an immediate threat caused by a local hazard? (Check all that apply)

	Number of Response(s)	Response Ratio
Television	119	57.4%
Email	154	74.3%
Text Message	174	84.0%
Radio	107	51.6%
Social Media	69	33.3%
Telephone	108	52.1%
Nextdoor	70	33.8%
Nixle	33	15.9%
Community Warning System	73	35.2%
Crescenta Valley Fire Safe Council	30	14.4%
Red Cross	23	11.1%
Other	11	5.3%
Total	207	100%

Local Hazard Mitigation Survey - Final Results

12. I live or work in: (needed for demographic data)

	Number of Response(s)	Response Ratio
La Crescenta	163	78.7%
Glendale	14	6.7%
La Cañada Flintridge	11	5.3%
Montrose	10	4.8%
Other	7	3.3%
No Responses	2	<1%
Total	207	100%

13. What is your age range? (needed for demographic data)

	Number of Response(s)	Response Ratio
18-29	0	0.0%
30-39	14	6.7%
40-49	41	19.8%
50-59	47	22.7%
60 or older	104	50.2%
No Responses	1	<1%
Total	207	100%

CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report

February 9, 2021

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

General Manager's Report Topics:

- GM Activities

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

- Operational Activities
- Water Production, Engineering Projects, and Rainfall/Hydrology Report
- District-wide Communications Training
- Updating and Reorganizing CVWD Office Courtyard Water Education Area
- Initiating outreach to the Community Advisory Committee

STAFFING

As of February 4th the District has gone 443 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

Engineering Committee Meeting	- January 27 th
UWMP Update Meeting	- February 3 rd
Utility Cost Management (UCM) Meeting	- February 4 th
Management Staff Meetings	- February 1 st , February 8 th

Submitted by:



Nem Ochoa
General Manager

Field Maintenance and Operations Report

January 2021

1

Water Main Repairs

7

Water Service Lateral Repairs

16

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

16

Meter Boxes Cleaned

18,463

Sewer Pipe Cleaned (ft)

- **Field Maintenance Projects**

- * Developer Jobs: none to report
- * Main Office Project: Water Education Center
- * AMI: Replaced 100 lids/boxes

- **Operations Report**

- * Well Maintenance: Performed & documented inspections
- * Disinfection/Treatment Maintenance:
 - Replaced 2 Chlorine analyzer pumps
- * Booster Pump Maintenance:
 - Cleaned various booster pumps & pump stations
 - Painted 3 boosters & replaced 7 air relief valves

- **Electrical/Telemetry**

- * Generator fleet: major yearly service
- * Repair/replace light fixtures
- * Motor Control Center (MCC) maintenance
- * Maintain SCADA & wireless radio networks

- **Wastewater Lift Station**

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

Field Maintenance and Operations Report

January 2021

Days without a lost-time incident: **443**

3

After Hours Leaks/Repairs

0

Fire Hydrant Maintenance Program

118

Water Quality Samples

142

Valves Exercised

0

Valve Replacements

- **Training/Cross Training**

- * Vactor/Sewer: Wayne B.
- * Backhoe/Mini Excavator: Siaki M.
- * Fire hydrant rebuild training ↓\$
- * Sewer: Updated C.C.T.V. Van software

- **New Certification**

- * None to report

- **Safety**

- * COVID protocols: Increased cleaning
- * Unit #47: Installed back-up camera
- * Installed lift assist to 90 lb. jack hammer
- * Monthly Safety Meeting: Winter Hydration

Engineering Report

February 9, 2021
Staff Report

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

1. Water Production Report

- January 1 – 31 – Water production – 52%/48% split – 96.5 MG for the month
- Average use – 11.0% greater than 2020 and 16.5% greater than 5-yr average

2. Rainfall Update

- 4.15” for January 2021
- Rainfall Total for Rainfall Year 2020/21 – 5.54”

3. Report on Engineering

- **CIP Projects**

- Rosemont Reservoir Rehabilitation
 - Recoating interior shell
 - Estimated completion date – March 2021
- Pipeline Replacement – Project 1 & 2 – 2400 & 2500 Blocks of Janet Lee & 4300 Block of Rosemont.
 - Permit complete
 - Construction to start 2/10/21
- Pipeline Replacement – Project 3 – 3300 & 3400 Blocks of Encinal
 - Pre-construction mtg. – 2/10/21
 - Community mtg. – 2/18/21
 - Construction to start 3/8/21
- Pipeline Replacement – Project 4
 - Pre-construction mtg – 2/24/21
 - Community mtg – 2/25/21
 - Construction to start 3/15/21
- Emergency Generator at Sewer Lift Station
 - Award of Contract – See Staff Report
 - Pre-construction mtg – 2/24/21
 - Shop drawing review & fabrication of electrical generator – estimated to be completed by May 2021
 - Estimated completion date – July 2021
- Rehabilitation of Well 12
 - Advertising for bids
 - Pre-bid meeting – 2/11/21
 - Bid Opening – 2/17/21
 - Award of Contract – 2/23/21
 - Construction – April to May 2021
- Booster Pump Replacement - Paschall – Booster B
 - Estimated completion date – February 2021
- SCADA Radio Communications Network
 - Final report 2/26/21
 - Review at next Engineering Committee for next step

- SCADA System Upgrades
 - o Working on draft Scope of Work
 - o Review at next Engineering Committee
- Ramsdell Mixing Station/Pressure Reducing Station
 - o Working on draft Request for Proposal
 - o Review at next Engineering Committee
- **Grant Program**
 - Local Hazard Mitigation Plan – See Staff Report
 - Stormwater Capture Project at Crescenta Valley County Park
 - o Working on draft agreement with LADWP for Stormwater Rights
- **AMI Communication Network**
 - Installation of Base Stations – Complete
 - Installation of 100 water meter lids & SmartPoints – Complete
 - Next steps – Connecting meters to Base Station & verify data

4. **Developer Projects**

- 4520 Rosemont – New 6 Units– Final concrete paving
- 2314 Montrose – New 5 Units - Developer obtaining construction quotes
- Waiting on Developer
 - 4521 Briggs/2413 Foothill – New 70 Units
 - 3900 Park Place – New 28 Units
 - 2341 Mira Vista – New 6 Units
 - 2345 Mira Vista – New 4 Units
 - 1961 Waltonia – New 6 Units

5. **FMWD** – No Report

6. **Street Projects** – No Report

CRESCENTA VALLEY WATER DISTRICT

WATER PRODUCTION REPORT

January 1 - January 31, 2021

Well Production:	42,877,904	Gals		
GWP Production:	5,697,000	Gals		
Gravity Production:	1,287,750	Gals	% GW	52%
Purchased Water:				
FMWD:	46,650,262	Gals		
City of Glendale:	0	Gals	% Import	48%
TOTAL:	96,512,916	Gals		
	296.19	ac-ft		

Glenwood Nitrate Water

Reclamation Plant:*

0

*Included in Well Production

WATER DEMAND COMPARISON

Time Period	Average Daily Usage (gals)	Current Period Change
January 1 - January 31, 2021	3,190,384	
January 1 - January 31, 2020	2,875,400	11.0%
5-yr Average - January 2016 - 2020	2,739,470	16.5%

RAINFALL: Jan 1 - Jan 31, 2021

4.15"

Season-To-Date:

5.54"

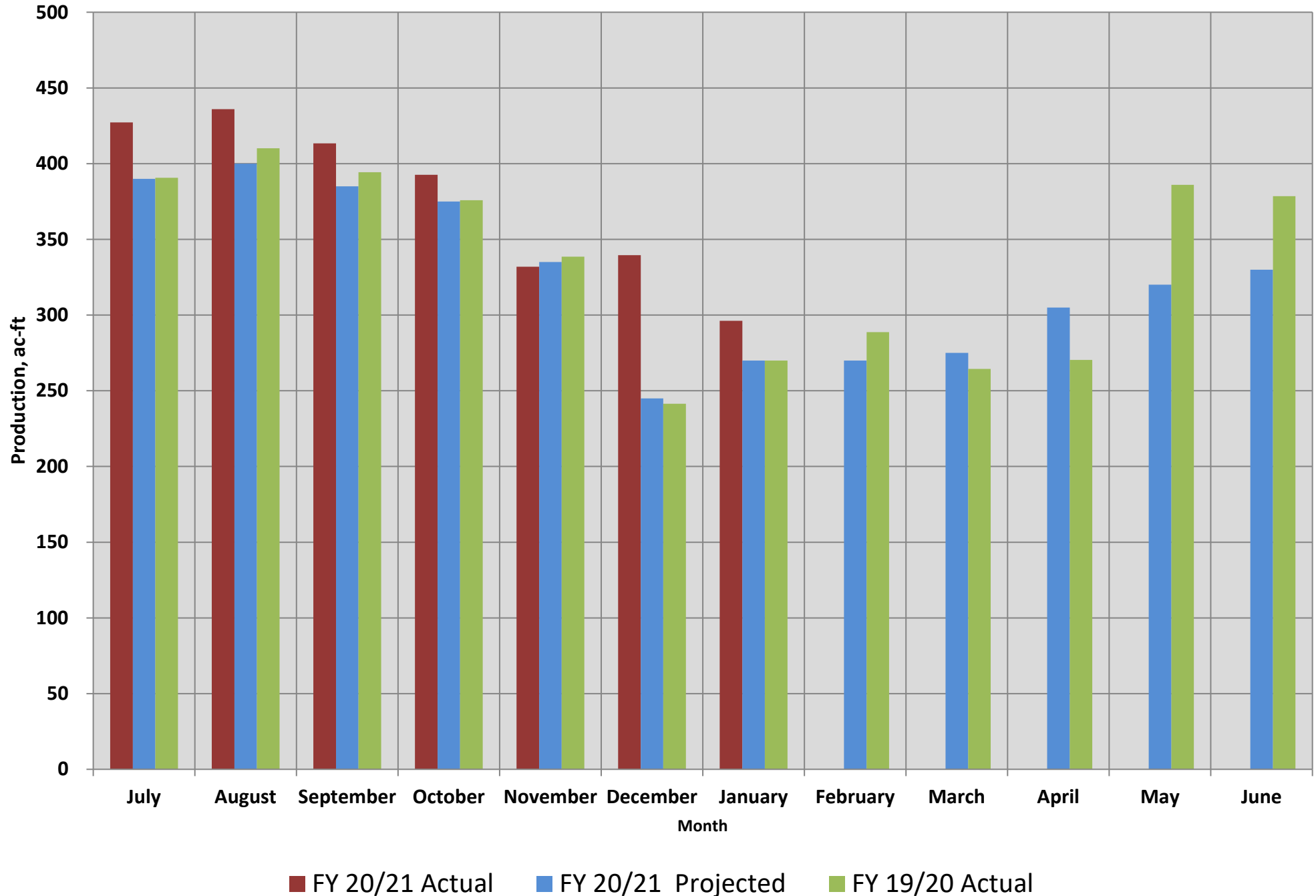
2020/21 Fiscal Year Water Production			WY 20/21 - Groundwater Production Water Rights		GWP (Well 16) Water Production - 2021		Purchased Water Production Tier 2 Allocation - 2021	
Month	Actual Total Water Production (ac-ft)	Projected Total Water Production (ac-ft)	Month	Month	Month	Well Production (ac-ft)	Month	Imported Water Production (ac-ft)
July	427	390	October	160	January	17	January	143
August	436	400	November	130	February		February	
September	413	385	December	151	March		March	
October	393	375	January	136	April		April	
November	332	335	February		May		May	
December	340	245	March		June		June	
January	296	270	April		July		July	
February		270	May		August		August	
March		275	June		September		September	
April		305	July		October		October	
May		320	August		November		November	
June		330	September		December		December	
Total to Date	2,637	2,400	Total to Date	577	Total to Date	17	Total to Date	143
Projected	4,137	3,900	Water Rights	3,294			Tier 2	2,154
% of Projected	67.6%	61.5%	% of Rights	18%			% of Allocation	7%
Remaining	1,263	1,500	Remaining	2,717			Remaining	2,011

NOTE:

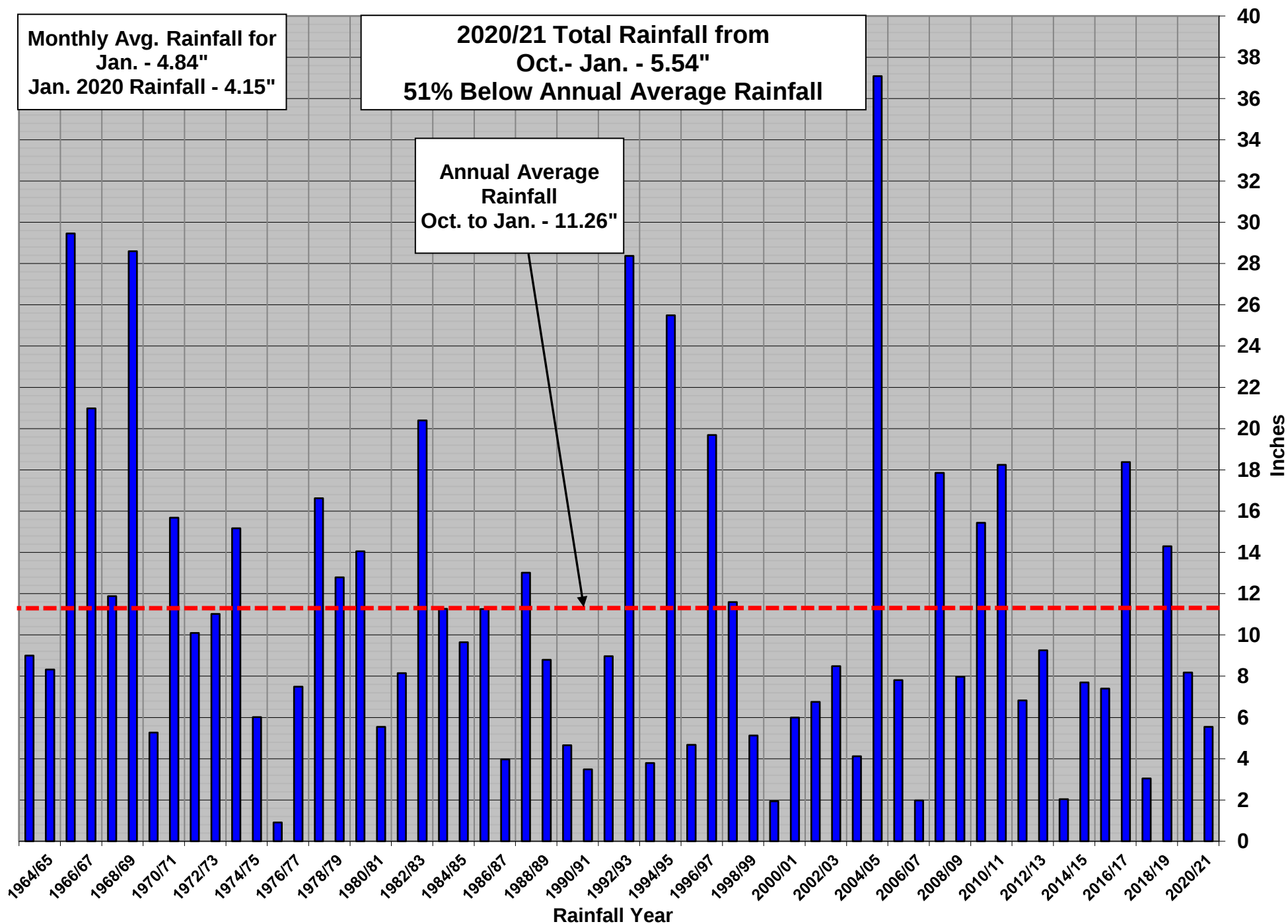
1) Blue Numbers = Estimated Water Production

Monthly Water Production:

FY 20/21 Actual, FY 20/21 Projected & FY 19/20 Actual



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



CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
January 27, 2021 at 3:00 PM

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

Posted January 26, 2021 at 10:00 AM

TELECONFERENCING NOTICE

[This meeting will be held by teleconference only.]

Pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 18, 2020, the public may not attend the meeting in person.

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: 835 8626 8014

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

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.

Action Items

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

1. Presentation – Overview CVWD’s Water and Wastewater Systems
2. Preliminary FY 21/22 CIP Budget
3. Project Cost Update - FY 20/21 Capital Improvement Project Program

Committee Member’s Request for Future Agenda Items

Next Engineering Committee Meeting –

Adjournment

CRESCENTA VALLEY WATER DISTRICT



Overview – CVWD's Water System

January 27, 2021

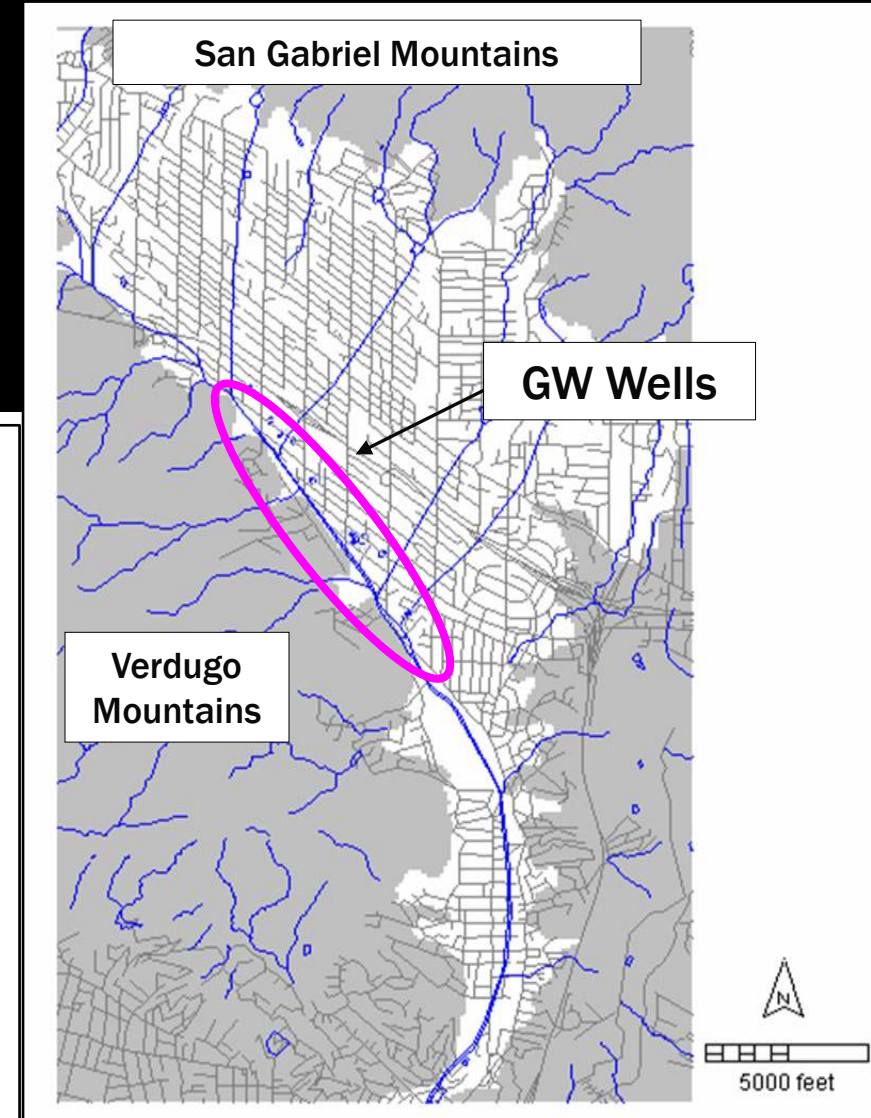
AGENDA

- **Overview of Water System**
 - **Water Supply**
 - **Water Storage**
 - **Water Distribution – Pipelines**
 - **Water Booster Pumps & Booster Station Improvements**
 - **Water Treatment**
 - **Emergency Response/Public Safety**
 - **Facilities & Planning**

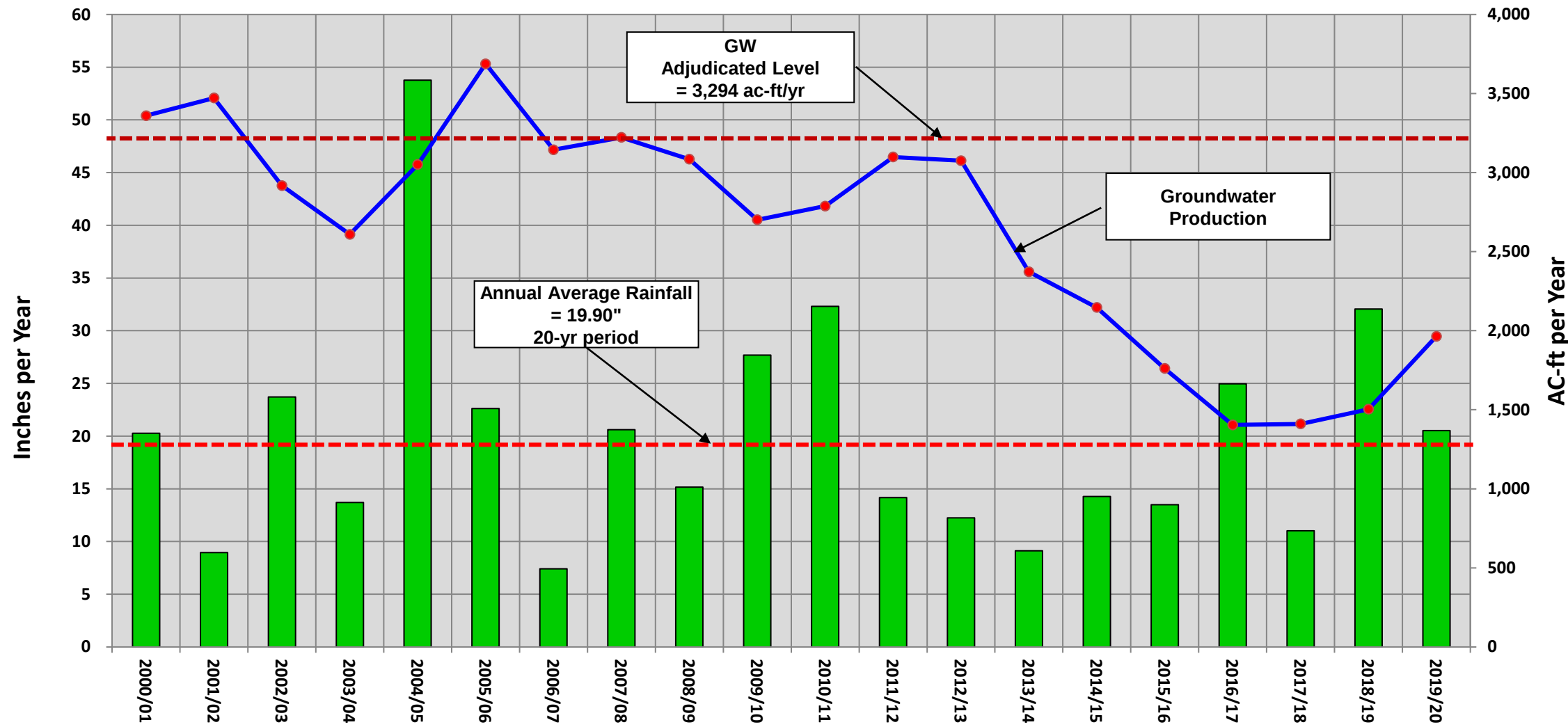
WATER SUPPLY

Two (2) Sources – Groundwater & Imported Water

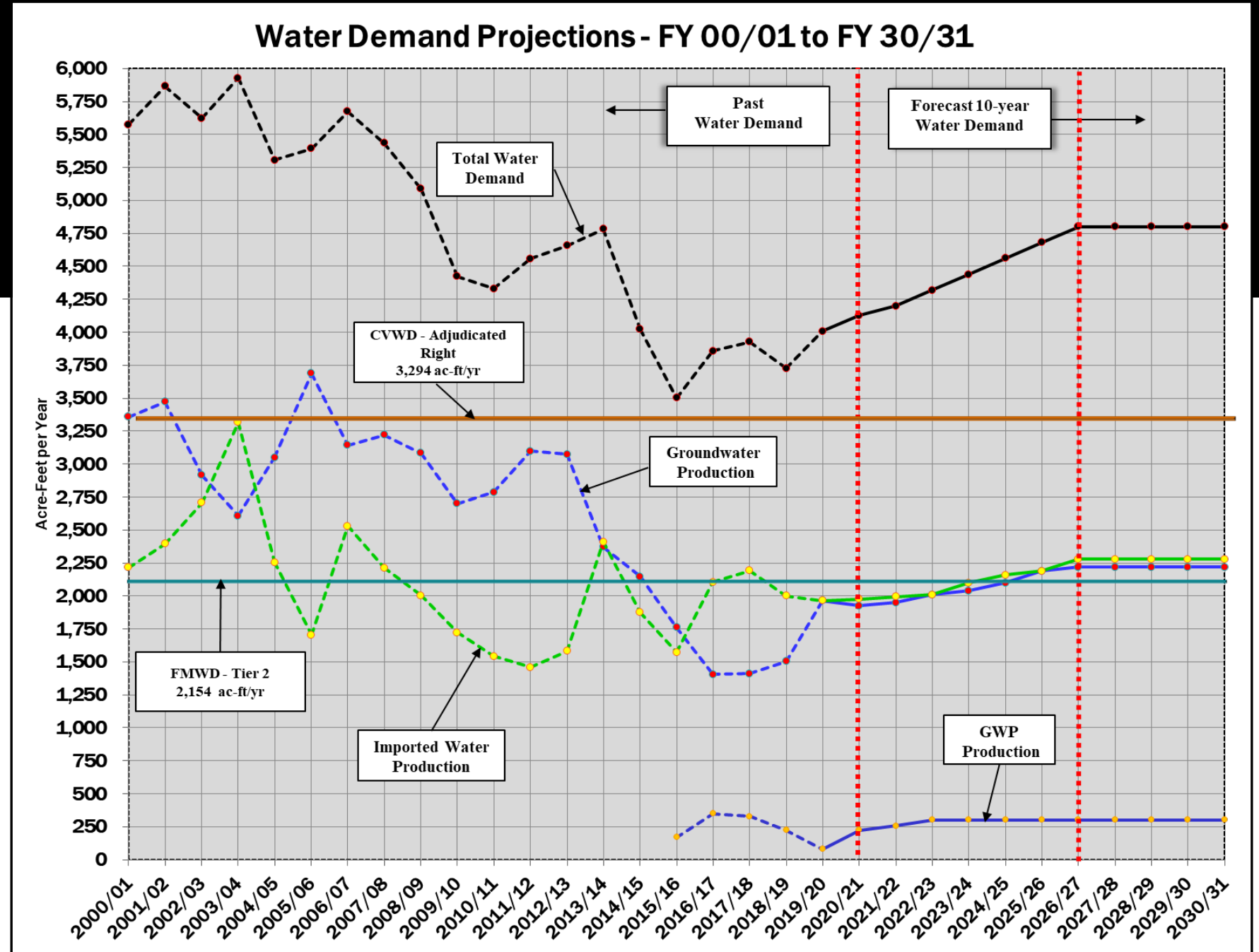
- Groundwater – Verdugo Basin
 - 12 wells located along Verdugo Wash
 - Well Capacity – 2.1 MGD
 - Meets 40% to 50% of water demand
 - Adjudicated Basin - CVWD & Glendale water rights only
 - Allowed to pump up to 3,294 ac-ft/yr
 - GW Well average age – 78 years old
 - Water levels at low due to recent drought



Groundwater Production vs. Rainfall - FY 00/01 to FY 19/20



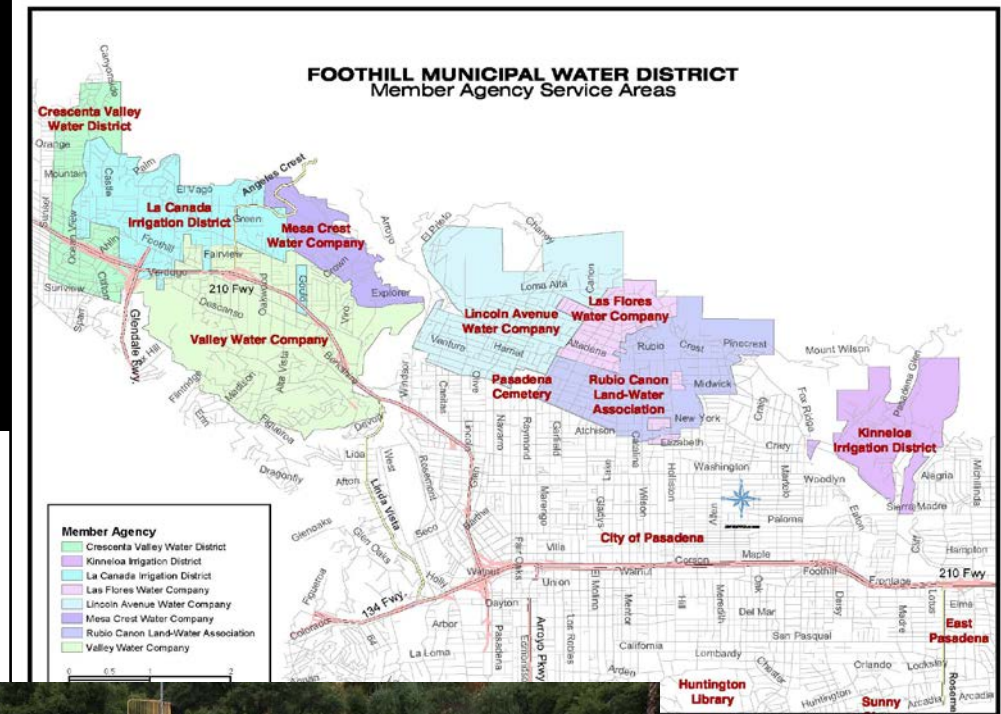
WATER SUPPLY



WATER SUPPLY

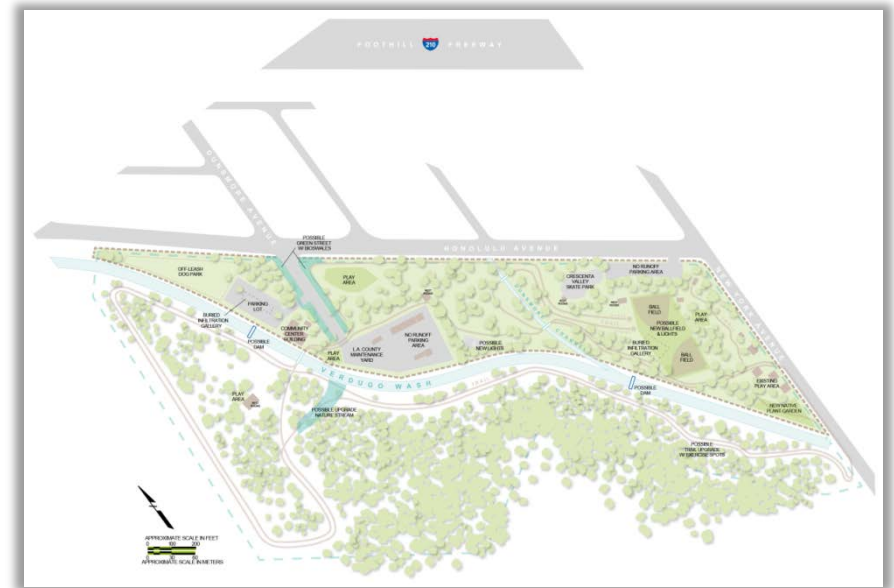
Imported Water – FMWD

- **Foothill Municipal Water District – Wholesaler of Imported Water from Metropolitan Water District to CVWD**
 - 8 sub agencies
 - Serves Altadena, La Canada & La Crescenta
- Provides 5.9 MGD max
- 50% - 60% of water demand
- Imported: MWD - Weymouth Plant – La Verne
 - 80% Colorado River & 20% State Project



GOALS

- **Maximize Groundwater**
 - **Well Rehabilitation**
 - **New Wells**
- **Reduce Imported Water**
- **Water Demand Projections – 1%/yr for next 5 yrs.**
- **50%/50% - Increase Ratio GW/FMWD**
- **Utilizing Stormwater Recharge to increase water in Verdugo Basin**
- **Other Sources**
 - **Recycled Water**
 - **City of Glendale**
- **Cost per ac-ft**
 - **Groundwater - \$450 ac-ft**
 - **Imported Water**
 - **Total Cost - \$1,684 ac-ft**
 - **Variable Cost - \$1,320 ac-ft**
 - **Anticipate cost to increase 3% to 5% annually**



WATER STORAGE

- **Concrete & steel reservoirs ranging in size from 3.0 MG to 0.5 MG**
- **14 Steel Tanks – Installed between 1949 – 1970 – Avg. 60 yrs. old**
- **3 Concrete Tanks – 1 installed 1956 – 2 Installed 1983**
- **Total Storage – 17.5 MG**
- **Daily Emergency Storage 8 to 10 MG**
- **5-to-7-day storage with water supply out of service**

Goals:

- 1. Steel Tanks**
 - a. Re-coating & structural upgrades - every 20-year**
 - b. Completed 3 reservoirs to date**
 - c. Budget - One (1) steel tank rehabilitation per year**
- 2. Concrete Tanks –**
 - a. Cleaning & repair – Every 10-15 years**



WATER DISTRIBUTION - PIPELINES

Pipeline Replacement Cost

2020	Pipeline Age	Pipeline Age Between Years	Liner Feet of Pipe (ft)	Percent of Total Pipe	Cost/LF of Pipe (\$)	Total Cost
1	>70 Yrs	1924 - 1950	28,010	5.5%	\$425	\$11,904,250
2	61 - 69 yrs	1951 - 1959	88,630	17.4%	\$425	\$37,667,750
3	51 - 60 yrs	1960 - 1969	138,260	27.2%	\$425	\$58,760,500
4	41 - 50 yrs	1970 - 1979	67,540	13.3%	\$425	\$28,704,500
5	31 - 40 yrs	1980 - 1989	39,660	7.8%	\$425	\$16,855,500
6	21 - 30 yrs	1990 - 1999	53,970	10.6%	\$425	\$22,937,250
7	11 - 20 yrs	2000 - 2009	76,140	15.0%	\$425	\$32,359,500
8	1 - 10 yrs	2010 - 2019	16,170	3.2%	\$425	\$6,872,250
Grand Total			508,380	100.0%		\$216,061,500
			96.3	Miles		



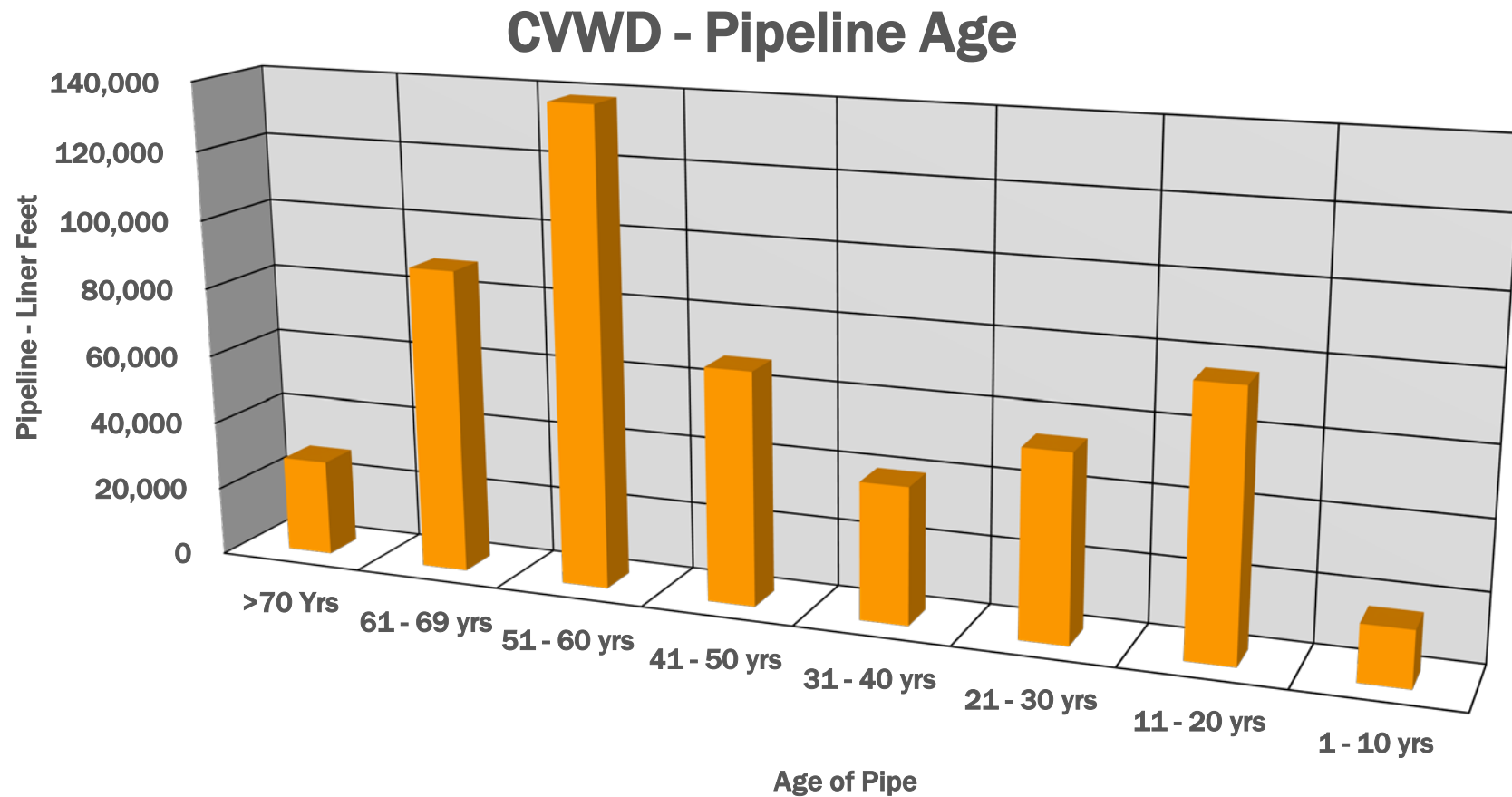
Pipeline Replacement

- **Steel Pipeline**
- **96.3 Miles of pipeline**
- **13% pipeline not interior coated – higher leaks**
- **Pipeline size – range – 2" dia. To 16" dia.**

Goals:

- **Replace pipeline 70 years or older over the next 5-years**
- **Replace about 1 mile (5,280 LF) pipeline/yr.**
- **Estimate annual cost - \$2.5M to \$2.8M/yr.**

WATER DISTRIBUTION



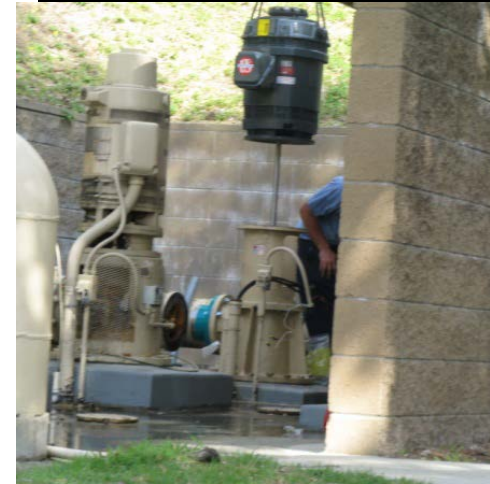
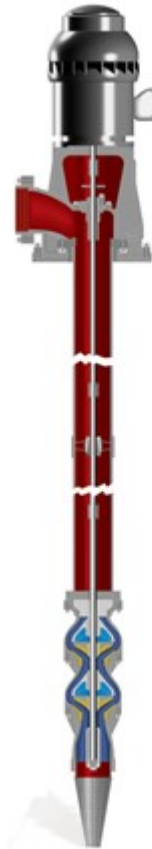
WATER DISTRIBUTION – BOOSTER PUMPS

Booster Pumps

- Pumps water from Water Supply Source to Reservoirs & Water Distribution
- 34 Booster Pumps
- 11 Pressure Zones
- 2 to 4 booster pumps per pressure zones
- 2000 feet of elevation
- Power Costs
 - SCE - \$315,000/yr
 - Glendale - \$410,000/yr

Goals:

- Replace one (1) Booster per year based on lowest pump efficiency.
- Replace motors with super premium efficiency
- Reduce power costs based on “Time of Use” rates



WATER DISTRIBUTION BOOSTER STATION IMPROVEMENTS

Booster Station Improvements

- 1. Buildings**
 - a. 2 existing sites
 - b. 12 sites w/o Bldg
- 2. Electrical Motor Control Center (MCC)**
 - a. Last upgrade - 1995 to 1998
 - b. Use standard equipment
 - c. 3 MCC's upgraded in last 5 years
- 3. Site Improvements**
 - a. Improve site efficiency



Goals

- 1. Upgrade at a Booster Station site includes:
New Building, New MCC, New Pumps & Motors
& Site Improvements**
- 2. Upgrade Booster Station Ranking**
 - a. Paschall Booster Station
 - b. Edmund No. 2 Booster Station
 - c. Cresta Heights Booster Station
- 3. Estimate Project Costs**
 - a. New MCC - \$150,000 to \$300,000
 - b. New Bldg - \$500,000 to \$750,000
 - c. New Pumps & Motors - \$100,000 to \$150,000
 - d. Site Improvements - \$125,000 to \$250,000
 - e. Estimate Cost Range - \$875K to \$1.45M



WATER TREATMENT

1. Disinfection

- a. Chlorine & Chloramines
- b. 5 Disinfection Station

- 1) Glenwood
- 2) Mills
- 3) Pickens Tunnel
- 4) Oak Creek
- 5) Ordunio

2. Nitrate Removal

- a. Glenwood - Resin
- b. Well 2 - Upgrade
- c. Mills Plant - New

3. Emerging contaminants

- a. Future



Goals

1. Conversion

- a. Chlorine
- b. Chloramines

2. Nitrate Removal

- a. Glenwood - Resin
- b. Well 2 - Upgrade
- c. Mills Plant - New

3. Emerging contaminants

- a. PFAS
- b. Future

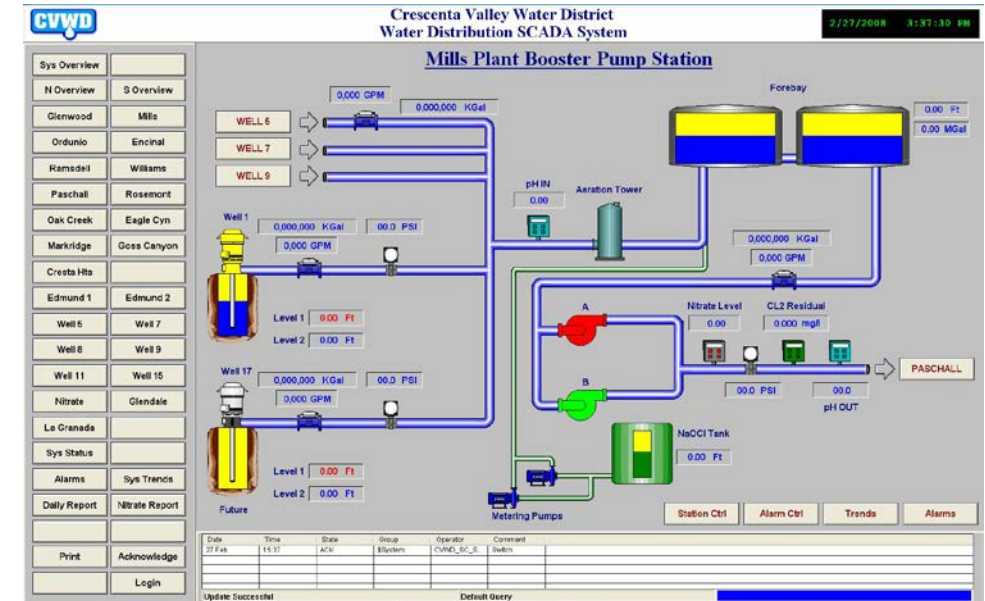
TECHNOLOGY



1. SCADA System
 - a. Tesco Equipment - 1996
 - b. Proprietary Programming
2. SCADA Radio Communications
 - a. 900 MHz Radio
 - b. Interference
3. AMI
 - a. Installed over 5,500 new meters
 - b. Working on AMI Communications

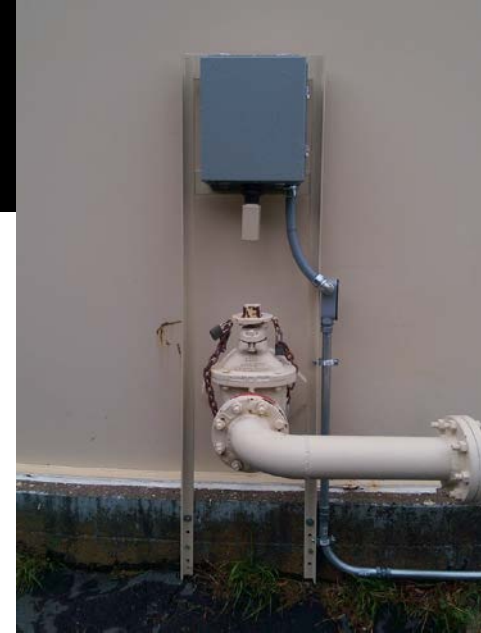
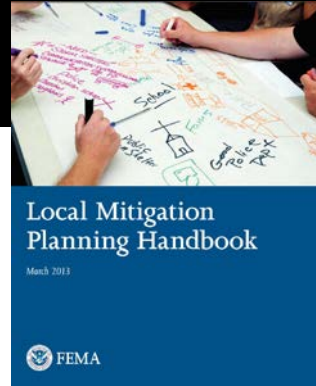
GOALS

1. SCADA System
 - a. Upgrade RTU/PLS
 - b. Upgrade SCADA Alarms
2. SCADA Radio Communications
 - a. Replace 900 MHz Radios
 - b. Upgrade to long-term RF
3. AMI - 4 yr project
 - a. Installation new meters
 - b. Install AMI Communications
 - c. Install Customer Portal
 - d. Complete FY 24/25
4. GIS/Hydraulic Modeling
 - a. Water Atlas
 - b. Sewer Atlas



EMERGENCY RESPONSE/PUBLIC SAFETY

- 1. Seismic Sensors**
 - a. Turns inlet/outlet valve to save water inside reservoirs**
 - b. 10 sites**
- 2. Local Hazardous Mitigation Plan**
 - a. FEMA/CalOSA Grant - \$125,000**
 - b. Steering Committee**
 - c. Complete by October 2021**
- 3. Emergency Elec. Generators**
 - a. 4 Portable**
 - b. 2 Stationary**



GOALS

- 1. Seismic Sensors**
 - a. Complete 4 sites**
- 2. Local Hazardous Mitigation Plan**
 - a. Vulnerability**
 - b. Complete by October 2021**
- 3. Security Cameras – All Sites**
- 4. New Emergency Generators**
- 5. FEMA Grants**
 - a. Pre-Disaster Mitigation**

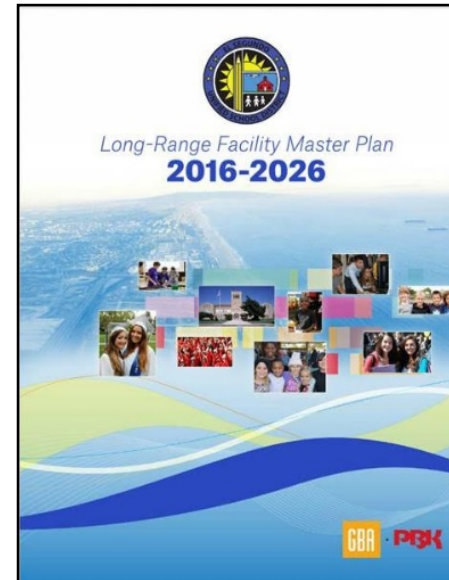
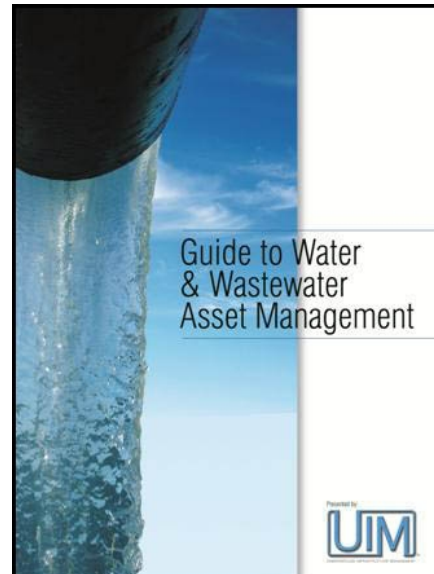
FACILITIES & PLANNING

1. Facilities

- a. 19 Sites
- b. Access Roads
- c. Landscaping
- d. Security/Fencing
- e. Equipment Storage

2. Planning

- a. Water Resources
- b. Asset Management
- c. New Groundwater Wells



GOALS:

1. Facilities

- a. Facilities Maintenance Study
- b. Upgrade Access Roads
- c. Upgrade Landscaping

2. Planning

- a. Water Resources
- b. Asset Management
- c. New Groundwater Wells

QUESTIONS

5- year CIP Program FY 21/22 Draft - 01/26/21	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	\$ 135,000	\$ 265,000	\$ 118,000	\$ 122,000	\$ 126,000
2. Water Storage	\$ 550,000	\$ 681,000	\$ 695,000	\$ 800,000	\$ 1,076,000
3A. Water Distribution - Pipeline	\$ 2,600,000	\$ 2,800,000	\$ 3,000,000	\$ 3,200,000	\$ 3,400,000
3B. Water Distribution - Other	\$ 830,000	\$ 175,000	\$ 86,000	\$ 89,000	\$ 95,000
4. Water Treatment	\$ 125,000	\$ -	\$ -	\$ -	\$ -
5. Technology	\$ 635,000	\$ 865,000	\$ 950,000	\$ 620,000	\$ -
6. Public Safety/Emergency Response	\$ 125,000	\$ 64,000	\$ 151,000	\$ 169,000	\$ 150,000
7. Facilities & Planning	\$ -	\$ 150,000	\$ -	\$ -	\$ 153,000
Capital Improvement Projects - Total	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
Bond Financing - CIP	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -
Water Fund Financing - CIP	\$ 3,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
Total Financing - CIP	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000

5- year CIP Program FY 21/22 Draft - 01/26/21		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 14 Rehabilitation	\$	105,000				
Well Rehabilitation (1 Well per year)			\$ 115,000	\$ 118,000	\$ 122,000	\$ 126,000
ii. New Wells						
Well 19 - Design				\$ -		
Well 19 - Construction					\$ -	
iii. Groundwater Basin Recharge						
Stormwater Recharge Project at CVC Park - Planning	\$	30,000				
Storm water Recharge Project at CVC Park - Design			\$ 150,000			
Storm water Recharge Project at CVC Park - Construction				\$ -	\$ -	
D. Water Supply Studies						
Water Resources Study					\$ -	
Verdugo Basin Groundwater Model			\$ -			
Groundwater Well Replacement Study				\$ -		
Groundwater Pilot Hole Study					\$ -	
WS Total	\$	135,000	\$ 265,000	\$ 118,000	\$ 122,000	\$ 126,000
2. Water Storage						
A. Reservoir Rehabilitation						
i. Steel Reservoir Rehabilitation						
Edmund #2	\$	550,000				
Goss Canyon #1			\$ 581,000			
Goss Canyon #2				\$ 595,000		
Shields					\$ 650,000	
Eagle Canyon						\$ 775,000
ii. Concrete Reservoir Rehabilitation						
Encinal						\$ 145,000
B. Reservoir Water Quality						
i. Water Quality Mixing System						
Reservoir Mixing System - 2 Reservoirs			\$ 100,000			
Reservoir Mixing System - 2 Reservoirs				\$ 100,000		
Reservoir Mixing System - 3 Reservoirs					\$ 150,000	
Reservoir Mixing System - 4 Reservoirs						\$ 156,000

5- year CIP Program FY 21/22 Draft - 01/26/21	Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26
C. Water Storage Studies					
<i>Reservoir Inlet/Outlet & Overflow Piping Study</i>		\$ -			
<i>Conditional Assessment of Reservoirs Study</i>			\$ -		
<i>Ocean View #2 Reservoir Feasibility Study</i>		\$ -		\$ -	
WS Total	\$ 550,000	\$ 681,000	\$ 695,000	\$ 800,000	\$ 1,076,000
3. Water Distribution					
A. Pipeline Replacement					
<i>Annual Pipeline Replacement</i>	\$ 2,600,000	\$ 2,800,000	\$ 3,000,000	\$ 3,200,000	\$ 3,400,000
C. Booster Pump System					
i. Annual Pump /Motor Replacement					
<i>Annual Booster Replace - 1 Booster</i>	\$ 80,000	\$ 85,000	\$ 86,000	\$ 89,000	\$ 95,000
ii. Pump Station Upgrade					
<i>Paschall Booster Station</i>		\$ -	\$ -	\$ -	
<i>Edmund #2 - Booster Station</i>					\$ -
iii. MCC Replacement					
<i>Paschall</i>		\$ -	\$ -	\$ -	
<i>Edmund #2</i>					\$ -
D. Pressure Reducing Stations					
<i>PRS - Zone 2 to Zone 1</i>	\$ 250,000				
E. Miscellaneous Projects					
i. Water Surge Control					
<i>Rehabilitation Surge Tank at Paschall Booster Station</i>				\$ -	
iii. Misc.					
<i>Upgrade - Ramsdell Mixing Station</i>	\$ 500,000				
<i>Mills Plant - Aeration Tower</i>		\$ 90,000			
F. Water Distribution Studies					
WD Total	\$ 3,430,000	\$ 2,975,000	\$ 3,086,000	\$ 3,289,000	\$ 3,495,000
4. Water Treatment					
A. Nitrate Removal					
i. Glenwood					
<i>Replace Ion Exchange Resin at Glenwood</i>				\$ -	
C. Disinfection - Convert to Chloramines					
<i>Conversion to Chloramination</i>	\$ 125,000				
WT Total	\$ 125,000	\$ -	\$ -	\$ -	\$ -

5- year CIP Program FY 21/22 Draft - 01/26/21	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	\$ 103,000				
1-1/2" - to 4" Smart Meters		\$ 250,800	\$ 365,750		
AMI - Meter Lids	\$ 142,000	\$ 543,375	\$ 567,525	\$ 603,750	
AMI - Communication					
AMI - Customer Service Interface	\$ 180,000	\$ 70,825	\$ 16,725	\$ 16,250	
B. Supervisory Control and Data Acquisition (SCADA) System					
SCADA Replacement - Installation	\$ 210,000				
TECH Total	\$ 635,000	\$ 865,000	\$ 950,000	\$ 620,000	\$ -
6. Public Safety/Emergency Response					
A. Emergency Electrical Generators					
New Emergency Electrical Generator - Mills Plant	\$ 125,000				
B. Water Storage					
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		\$ 64,000			
Security Cameras - Well Sites			\$ 25,000		
Security Cameras - Other Sites				\$ 23,000	
D. Miscellaneous					
SF/ER Total	\$ 125,000	\$ 64,000	\$ 151,000	\$ 169,000	\$ 150,000
7. Facilities & Planning					
D. Reservoir Site Improvements					
Facilities Maintenance Master Plan		\$ 150,000			
Facilities Upgrade & Improvements					\$ 153,000
5. Misc. Properties					
6. District Planning					
F & P Total	\$ -	\$ 150,000	\$ -	\$ -	\$ 153,000
Capital Improvement Projects - Total	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000

FY 20/21 Capital Improvement Project Program Cost Update: 1/27/21	Recorded FY 19/20	Budget FY 20/21	<u>FY 20/21</u> Cost to date from 7/1/20 to 12/31/20	<u>FY 20/21</u> Cost Committed from 1/01/21 to 6/30/21	Projected FY 20/21	Comments
Capital Improvement Project Summary						
1. Water Supply	\$ 305,719	\$ 170,000	\$ 56,106	\$ 133,600	\$ 189,706	Cost to-date over Budget
2. Water Storage	\$ 501,116	\$ 480,000	\$ 113,476	\$ 522,649	\$ 636,125	Cost to-date over Budget
3A. Water Distribution - Pipeline	\$ 1,126,030	\$ 2,300,000	\$ 209,076	\$ 2,089,650	\$ 2,298,726	Cost to-date under Budget
3B. Water Distribution - Other	\$ 10,892	\$ 710,000	\$ 107,935	\$ 183,016	\$ 290,951	Cost to-date under Budget
4. Water Treatment	\$ 469,205	\$ -	\$ 44,591	\$ 10,409	\$ 55,000	Cost to-date over Budget
5. Technology	\$ 152,597	\$ 1,070,000	\$ 202,832	\$ 950,977	\$ 1,153,809	Cost to-date over Budget
6. Public Safety/Emergency Response	\$ 5,810	\$ 165,000	\$ 32,875	\$ 132,125	\$ 165,000	Cost to-date at Budget
7. Facilities & Planning	\$ -	\$ 105,000	\$ -	\$ -	\$ -	Cost to-date under Budget
Capital Improvement Projects - Total	\$ 2,571,368	\$ 5,000,000	\$ 766,892	\$ 4,022,426	\$ 4,789,318	Cost to-date under Budget
Bond Financing - CIP	\$ -	\$ 2,695,174	\$ 463,077	\$ 2,232,097	\$ 2,695,174	
Water Fund Financing - CIP	\$ 2,571,368	\$ 2,304,826	\$ 303,815	\$ 1,790,329	\$ 2,094,144	
Total Financing - CIP	\$ 2,571,368	\$ 5,000,000	\$ 766,892	\$ 4,022,426	\$ 4,789,318	

FY 20/21 Capital Improvement Project Program Cost Update: 1/27/21		Recorded FY 19/20	Budget FY 20/21	FY 20/21 Cost to date from 7/1/20 to 12/31/20	FY 20/21 Cost Committed from 1/01/21 to 6/30/21	Projected FY 20/21	Comments
1. Water Supply							
A. Groundwater Water Supply							
i. Well Rehabilitation							
	Well 7 Rehabilitation	\$ 102,696					Completed FY 18/19
	Well 16 Rehabilitation	\$ 103,713					Completed FY 18/19
	Well 11 Rehabilitation	\$ 14,694	\$ -	\$ 56,106	\$ -	\$ 56,106	Completed FY 19/20
	Well 12 Rehabilitation		\$ 95,000	\$ -	\$ 108,600	\$ 108,600	To be Complete by 5/21
ii. New Wells							
	Re-Activate Well 2 - Construction	\$ 79,272					
iii. Groundwater Basin Recharge							
	Stormwater Recharge Project at CVC Park - Planning	\$ 5,344	\$ 75,000	\$ -	\$ 25,000	\$ 25,000	Reduced to \$25K/Planning
D. Water Supply Studies							
WS Total		\$ 305,719	\$ 170,000	\$ 56,106	\$ 133,600	\$ 189,706	Cost to-date over Budget
2. Water Storage							
A. Reservoir Rehabilitation							
i. Steel Reservoir Re-Coating/Roof/Vents Rehabilitation							
	Markridge	\$ 498,530					Completed FY 19/20
	Rosemont	\$ 2,585	\$ 480,000	\$ 58,296	\$ 522,649	\$ 580,945	To be Complete by 4/21
	Oak Creek - 16" Manifold Repair		\$ -	\$ 55,181	\$ -	\$ 55,181	New Project - Completed
WS Total		\$ 501,116	\$ 480,000	\$ 113,476	\$ 522,649	\$ 636,125	Cost to-date over Budget
3. Water Distribution							
A. Pipeline Replacement							
	3200 & 3300 Blocks of Brookhill	\$ 623,009					Completed FY 19/20
	4700 & 4800 Block of Pennsylvania	\$ 503,021					Completed FY 19/20
	Project 1		\$ 538,000	\$ 104,969	\$ 467,750	\$ 572,719	To be Complete by 4/21
	Project 2		\$ 280,000	\$ 14,873	\$ 242,900	\$ 257,773	To be Complete by 4/21
	Project 3		\$ 707,000	\$ 48,386	\$ 697,000	\$ 745,386	To be Complete by 5/21
	Project 4		\$ 775,000	\$ 40,848	\$ 682,000	\$ 722,848	To be Complete by 5/21
	Annual Pipeline Replacement		\$ 2,300,000	\$ 209,076	\$ 2,089,650	\$ 2,298,726	Cost to-date under Budget
C. Booster Pump System							
	Boosters - Glenwood 32 & 33	\$ 4,384	\$ -	\$ 85,950	\$ 1,000	\$ 86,950	Completed FY 19/20
	Booster Replace - Booster B at Paschall		\$ 75,000	\$ -	\$ 17,000	\$ 17,000	Reduced to 17K; completed by 3/21

FY 20/21 Capital Improvement Project Program Cost Update: 1/27/21		Recorded FY 19/20	Budget FY 20/21	FY 20/21 Cost to date from 7/1/20 to 12/31/20	FY 20/21 Cost Committed from 1/01/21 to 6/30/21	Projected FY 20/21	Comments
D. Pressure Reducing Stations							
PRS - Zone 2 to Zone 1		\$ 6,508	\$ 150,000	\$ -	\$ 60,000	\$ 60,000	Moved to FY 21/20/Design only
E. Miscellaneous Projects							
i. Water Surge Control							
Rehabilitation Surge Tank at Glenwood			\$ 35,000	\$ -	\$ 35,000	\$ 35,000	Design
iii. Misc.							
Upgrade - Ramsdell Mixing Station		\$ -	\$ 450,000	\$ 21,984	\$ 70,016	\$ 92,000	Moved to FY 21/20/Design only
WD Total		\$ 1,136,922	\$ 3,010,000	\$ 317,011	\$ 2,272,666	\$ 2,589,677	Cost to-date under Budget
4. Water Treatment							
C. Disinfection - Convert to Chloramines							
Conversion to Chloramination		\$ 469,205	\$ -	\$ 44,591	\$ 10,409	\$ 55,000	Conversion in Fall 2021
WT Total		\$ 469,205	\$ -	\$ 44,591	\$ 10,409	\$ 55,000	Cost to-date over Budget
5. Technology							
A. Automated Meter Information (AMI) System							
AMI - 3/4" to 1" - Smart Meters		\$ 83,590	\$ 50,000	\$ 86,500	\$ -	\$ 86,500	Meters for Zone 1 & 2
AMI - Communication			\$ 150,000	\$ 54,025	\$ 318,625	\$ 372,650	Cost revised, Complete by 5/21
B. Supervisory Control and Data Acquisition (SCADA)							
Communication Radio Network			\$ 260,000	\$ 4,660	\$ 180,000	\$ 184,660	Study/New Radio Network by 6/21
SCADA Replacement - Design		\$ 69,007					
SCADA Replacement - Installation			\$ 610,000	\$ 57,648	\$ 452,352	\$ 510,000	Reduced to \$510K, Final Scope of Work
TECH Total		\$ 152,597	\$ 1,070,000	\$ 202,832	\$ 950,977	\$ 1,153,809	Cost to-date over Budget
6. Public Safety/Emergency Response							
B. Water Storage							
Dunsmore/Pickens - Seismic Sensors		\$ 5,810					
D. Miscellaneous							
FEMA Local Hazard Mitigation Plan			\$ 165,000	\$ 32,875	\$ 132,125	\$ 165,000	Complete by 10/21
SF/ER Total		\$ 5,810	\$ 165,000	\$ 32,875	\$ 132,125	\$ 165,000	Cost to-date at Budget
7. Facilities & Planning							
D. Reservoir Site Improvements							
Roof for Old Encinal - Storage Bldg			\$ 105,000	\$ -	\$ -	\$ -	Project deferred to FY 21/22
F & P Total		\$ -	\$ 105,000	\$ -	\$ -	\$ -	Cost to-date under Budget
Capital Improvement Projects - Total		\$ 2,571,368	\$ 5,000,000	\$ 766,892	\$ 4,022,426	\$ 4,789,318	Overall Cost under Budget

CRESCENTA VALLEY WATER DISTRICT

MEMORANDUM

DATE: January 28, 2021
TO: Engineering Committee
FROM: David S. Gould, Director of Engineering
SUBJECT: CVWD Engineering Committee Meeting No. 322

Following is a summary of Engineering Committee Meeting No. 322, held at 3:00 PM on January 27, 2021, via Teleconference and was attended by the following:

Director Sharon Raghavachary – Committee Chairperson	CVWD
Director Judy Tejada	CVWD
Nem Ochoa – General Manager	CVWD
James Lee –Director of Finance & Administration	CVWD
David Gould – Director of Engineering	CVWD
Brook Yared – Engineer Manager	CVWD
Dennis Maxwell – Director of Operations	CVWD
Christy Colby – Regulatory and Public Affairs Manager	CVWD
Jennifer Bautista – Project Coordinator	CVWD
CVWD Operations and Customer Service Staff	CVWD
Marilyn Tyler	Resident

1. Presentation – Overview CVWD’s Water and Wastewater Systems

Mr. Gould gave a PowerPoint presentation titled “Overview – CVWD’s Water System” to the Engineering Committee, CVWD staff, and the public. The presentation focused on major components of CVWD’s water system, including water supply, water storage, pipelines, booster stations, water treatment, technology, emergency preparedness, public safety, and facilities.

Mr. Gould provided an in-depth discussion on water supply, including cost differential between groundwater and imported water. Director Raghavachary suggested increasing groundwater recharge by working with LA County regarding landscaping and permeable soil to reduce runoff. The group discussed the Low-Impact-Development program by LA County.

Mr. Gould discussed water storage in CVWD’s steel and concrete tanks and the need to continue with rehabilitation to maintain the reservoirs into the future. Mr. Gould suggested a conditional assessment of the reservoirs study to determine the expected life remaining in the reservoirs. Director Raghavachary asked which material, concrete or steel is better to use for the storage tanks. Mr. Gould and Mr. Ochoa stated that steel tanks are a better design because of the longevity of steel tanks, and it is more economical.

Mr. Gould discussed the pipeline replacement program to replace pipelines that are over 70 years old at a rate of one (1) mile per year at a cost of \$2.5M to \$2.8M. Mr. Gould indicated that it is about 28,000 feet (5.3 miles) of old pipe that will be replaced over the next five years. Director Raghavachary suggests that we increase the rate at which the District is replacing its pipelines to prevent an economic loss in the future.

Mr. Gould discussed CVWD’s booster pumps and booster station improvements. Mr. Gould indicated that one booster pump is planned to be replaced a year, and it will include replacing the motor with super premium efficiency to reduce power costs. Also, Mr. Gould discussed upgrading the booster station sites including updating the existing motor control centers (MCC) and to install buildings over the pumps to protect them from the weather. Mr. Ochoa added that booster pumps are critical facilities and that it is important to keep up maintenance.

Mr. Gould discussed water treatment relative to CVWD’s water quality. Mr. Gould indicated that the disinfection system is nearly ready for conversion from chlorine to chloramines and will provide further details at the next Engineering committee meeting.

Mr. Gould continued the presentation by discussing the upgrades to the SCADA system and the SCADA radio communication system. This will include upgrading the SCADA programming and hardware, as well as replacing the 900 MHz radio system. Mr. Gould also discussed the implementation of the AMI program of replacing water meters and installation of the AMI communication system. Mr. Gould indicated that this will be a 4-year project and that next year, the customer service portal will be installed for people to look at their consumption. Finally, Mr. Gould indicated that Mr. Yared is working on updating the hydraulic model which will be utilized to optimize the water distribution system.

Mr. Gould discussed the installation of seismic sensors at reservoir sites to automatically close the inlet/outlet reservoirs during an earthquake event and prevent the loss of water. There are three (3) more sites that the seismic sensors need to be installed. Also, discussed was the purchase of additional emergency electrical generators at key sites and the installation of security cameras at all the sites.

Finally, Mr. Gould discussed the goal of preparing a facilities maintenance assessment study to determine the future needs at the District's 17 sites.

The Engineering committee discussed what the next step with this presentation is? Mr. Gould indicated that the plan will be discussed at the board meeting on 02/09/2021. In addition, if requested, staff would make this presentation available to the CV Town Council. Director Raghavachary suggested the District offer to give the presentation to the public, such that the rate payers would understand what services they are paying for. It was also suggested that the presentation be made into a video and included on CVWD's website.

2. Preliminary FY 21/22 Capital Improvement Program Budget

Mr. Gould discussed the preliminary FY 21/22 Capital Improvement Program (CIP) budget that focused on pipeline replacement, well & reservoir rehabilitation, continuation of the AMI program, booster pump replacement, and a new emergency generator at the Mills Plant. Mr. Gould explained that FY 21/22 will utilize \$2.0M from the bond financing and \$3.0M from the water fund. Mr. Gould also discussed that the preliminary budget also shows proposed projects for the next 5-years. The CIP annual budget was set at \$5M per year and did not include any future bond financing. Mr. Gould pointed out that a number of necessary projects such as the construction of a new groundwater well, installation of the stormwater capture project and upgrading the Paschall booster station were not included in the 5-year CIP program.

Director Raghavachary suggested that she would like to see the District pursue an additional \$10M bond financing to meet the District's future infrastructure needs. This will be discussed further at a future Board meeting. Ms. Tyler points out that the bond financing amount shown for FY 21/22 should have been \$2.3M, not the \$2.0M shown in the table. Mr. Gould will correct the table.

3. Project Cost Update – FY 20/21 Capital Improvement Program

Mr. Gould provided an update on the FY 20/21 Capital Improvement Program (CIP) budget with respect to the status of the project and an updated project schedule. Mr. Gould discussed that the attached project cost summary showed updated cost information each project including costs spent to date, costs committed to either by an approved contract or estimated costs for project still in the planning stage such as the SCADA improvement project. Mr. Gould indicated that the Ramsdell Mixing Station project is behind schedule and that the design portion will be done in FY 20/21 and construction in FY 21/22. Mr. Gould continued by saying that the scope of work for the SCADA replacement project will be presented to the Board at the second meeting in February. Finally, Mr. Gould stated that it has been determined that the project for the roof at Old Encinal has become too costly and has been placed on hold.

Director Raghavachary asked where the funding for the emergency work at Oak Creek Reservoir came from. Mr. Gould explained that the District saved funding by utilizing CVWD's work crew to complete the work. Mr. Ochoa agrees that using the Districts reserve funding would prevent the District from taking funds from other projects.

4. Next Meeting

- a. Next meeting scheduled for February 2021, TBD

Adjournment - The Engineering Committee meeting was adjourned at 4:48pm on January 27, 2021.