

# CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD  
LA CRESCENTA, CALIFORNIA

To be held on

Thursday, March 18, 2021 at 11:00 a.m.

Agenda for the Meeting of the Community Advisory  
Committee of the Crescenta Valley Water District

Posted March 16, 2021 at 1:30 p.m.

## TELECONFERENCING NOTICE

**(This meeting will be held by audio and video conference only)**

**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: 883 8637 9558**

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

**<https://us02web.zoom.us/j/88386379558>**

### Action Items

- 1) Discussion of the CIP Budget, Rates and Bond options.

There is no packet for this discussion item. This will be a live presentation.

The Engineering Committee Packet from March 16<sup>th</sup> is included for your information.

### Committee Member's Request for Future Agenda Items

### Next Community Advisory Committee Meeting

### Adjournment

# CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD  
LA CRESCENTA, CALIFORNIA

To be held on  
March 16, 2021 at 2:30 PM

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

Posted March 15, 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: 856 8249 8434

[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/85682498434>

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](mailto: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. Discussion of the Draft FY 21/22 Capital Improvement Project Budget
2. Discussion regarding the Engineering Dept Office Remodel
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

## STAFF REPORT

Information Item No. 1  
March 16, 2021

**To:** Engineering Committee  
**From:** David S. Gould, P.E. – Director of Engineering  
**Subject:** FY 21/20 Preliminary Water Capital Improvement Project Program

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### **BACKGROUND:**

Staff has been working on the preliminary FY 21/22 Water Capital Improvement Project (CIP) Budget since December 2021 including the \$5M Bond proceeds for upcoming fiscal year budget.

### **DISCUSSION:**

Staff has prepared the following for discussion with the Engineering Committee.

1. Summary of Preliminary FY 21/22 CIP Budget
2. Pipeline Replacement Schedules – 75-yr, 85- yr and 100-yr replacement schedules

<b>Years to Complete</b>	<b>LF/Yr</b>	<b>Miles/Yr</b>	<b>Pipe Replaced in 20-yrs (LF)</b>	<b>Replaced up to Year</b>	<b>Annual Cost - \$475/LF</b>
75	6,680	1.27	136,000	1959	\$3,173,000
80	6,263	1.19			\$2,974,717
85	5,894	1.12	105,600	1958	\$2,799,734
90	5,567	1.05			\$2,644,193
95	5,274	1.00			\$2,505,025
100	5,010	0.95	52,800	1955	\$2,379,774
200	2,505	0.47			\$1,189,887

3. 5-year CIP budget

Prepared & Submitted by:



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

Attachment:

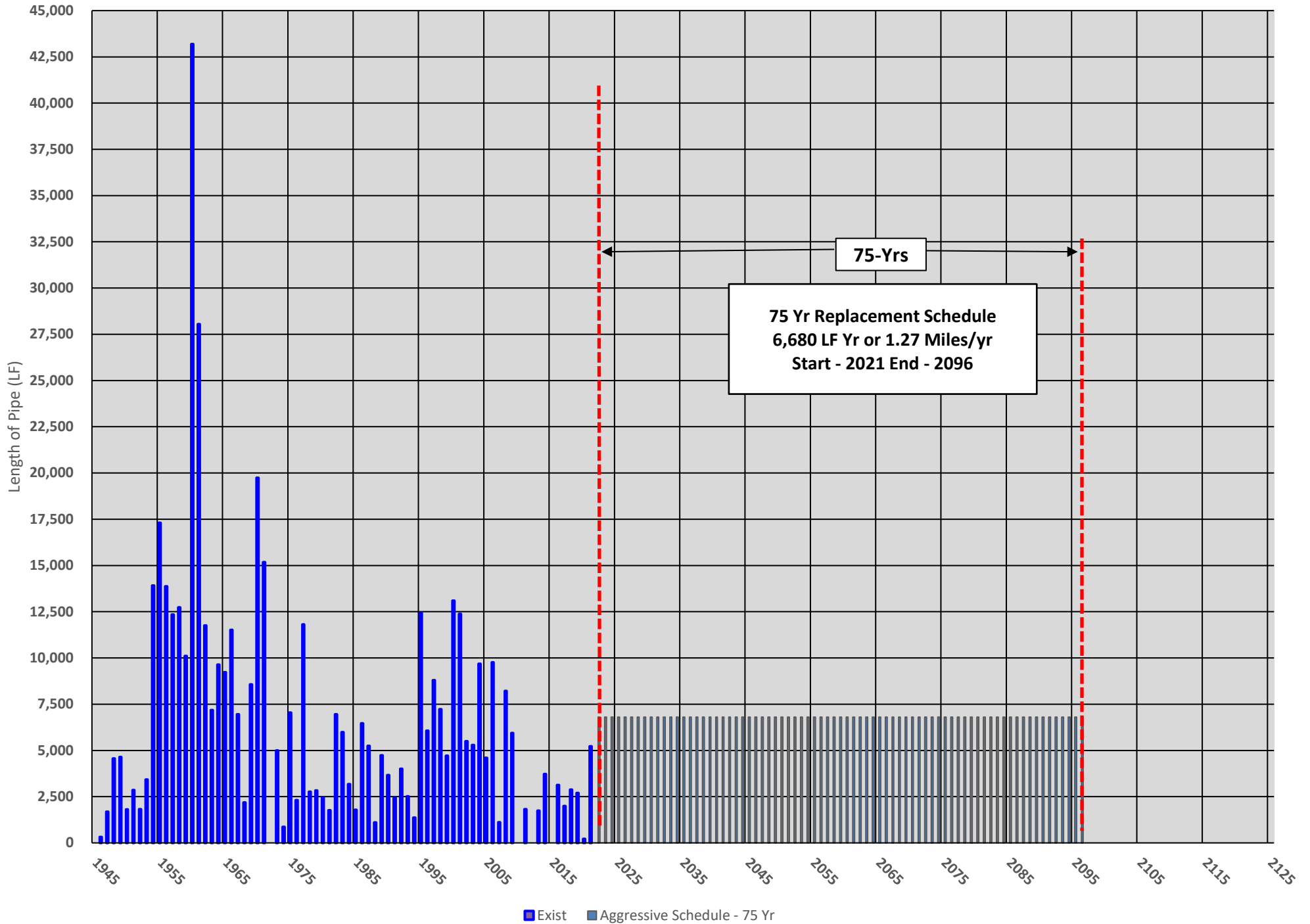
1. FY 21/22 CIP Summary
2. Pipeline Replacement Schedules
3. 5-yr CIP Budget

## Crescenta Valley Water District

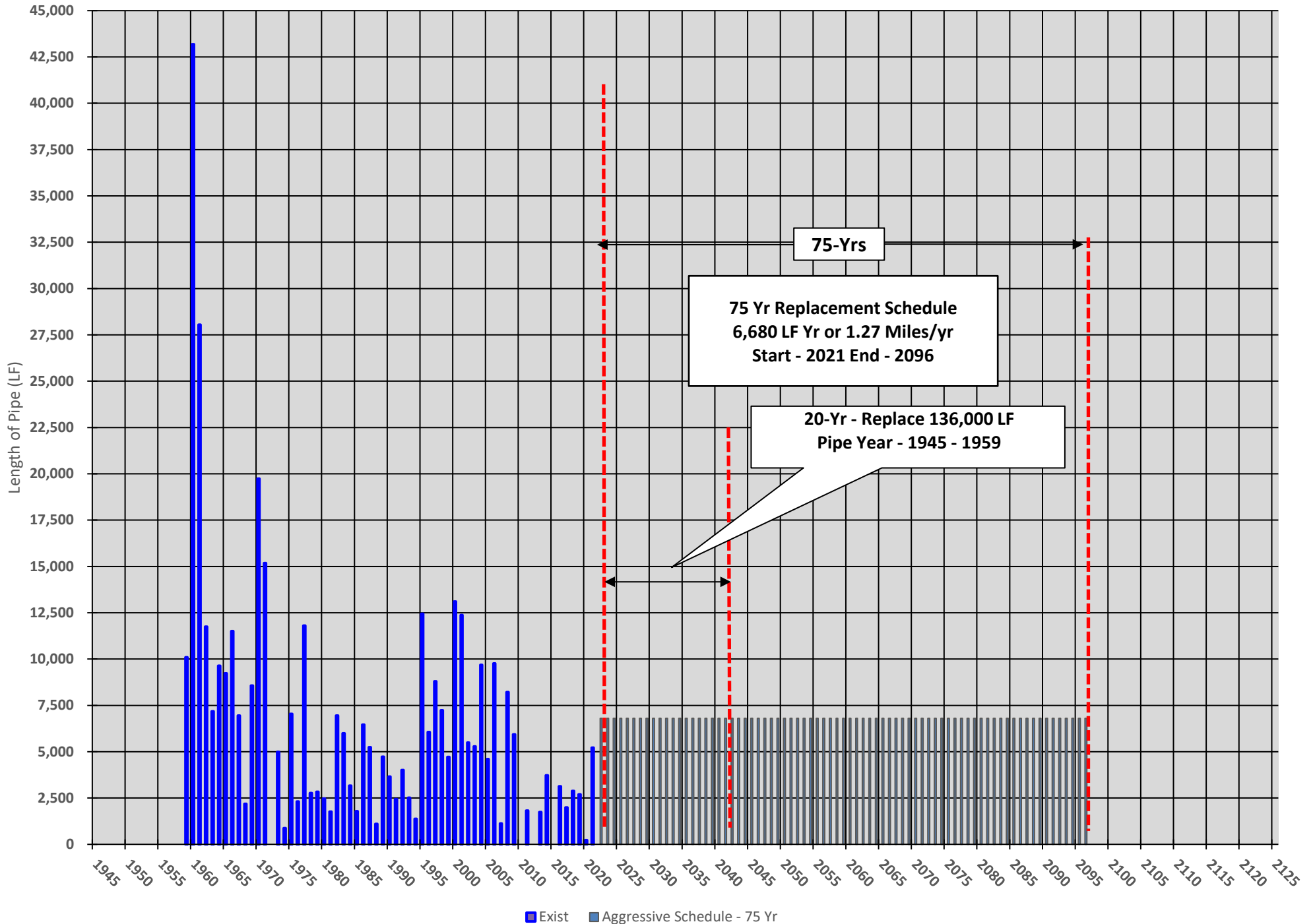
### FY 21/22 Capital Improvement Project Priority List

Capital Improvement Project Program	Budget FY 20/21	Category	Bond (B) or PayGo (P)	Cumulative Estimated Costs	Completion Date	Project Description
<b>Bond Proceeds</b>						
Annual Pipeline Replacement	\$ 2,304,826	Water Distribution	B	\$ 2,304,826	Jun-22	<b>Pipeline Replacement</b> - 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama & 4700 & 4800 Blocks of Cheryl - Total 5,510 LF; <b>89% Bond Funding</b>
<b>Bond Proceeds Subtotal</b>	<b>\$ 2,304,826</b>					
<b>Pay-Go</b>						
Annual Pipeline Replacement	\$ 295,174	Water Distribution	P	\$ 295,174	Jun-22	<b>Pipeline Replacement</b> - 2800 to 3100 Blocks of Los Olivos; 3200 Block of Alabama & 4700 & 4800 Blocks of Cheryl - Total 5,510 LF; <b>11% Pay-Go Funding</b>
Steel Reservoir Rehabilitation - Edmund #2	\$ 590,000	Water Storage	P	\$ 885,174	Mar-22	<b>Reservoir Rehabilitation</b> - Structural repairs and re-coating at Edmund #2 Reservoir during low demand (Winter) season
Well 14 Rehabilitation	\$ 105,000	Water Supply	P	\$ 990,174	Feb-22	<b>Well Rehabilitation</b> - Remove & Inspect Well Pump & Casing, Chemical Treatment Well Casing, Pump Test, New Pump & Motor
PRS - Zone 2 to Zone 1/Upgrade - Ramsdell Mixing Station	\$ 793,000	Water Distribution	P	\$ 1,783,174	Apr-22	<b>New Pressure Reducing Station &amp; Upgrade Ramsdell Mixing Station - <u>Continuation from FY 20/21</u></b> - Construction of PRS from Zone 2 to zone 1 & Upgrade to Ramsdell Mixing Station
Replacement - SCADA System	\$ 374,000	Technology	P	\$ 2,157,174	Jan-22	<b>Replacement of SCADA System - <u>Continuation from FY 20/21</u></b> - Completion of the replacement of RTU/PLC Equipment including new equipment, programing, integration and testing
Replacement - Communication Radio Network	\$ 125,000	Technology	P	\$ 2,282,174	Sep-21	<b>Replacement of SCADA Radio Communication System - <u>Continuation from FY 20/21</u></b> - Completion to Upgrading Radio System to 5.8GHz radios
AMI - 3/4" to 1" - Smart Meters & AMI Customer Portal	\$ 520,000	Technology	P	\$ 2,677,174	Jun-22	<b>Advanced Metering Infrastructure (AMI) - <u>Continuation from FY 20/21</u></b> 1) Install 590 3/4" and 1" water meters in Zone 1 2) Install AMI Customer Engagement Portal 3) Install 3" & 4" meters - <b>USBR Grant</b>
Annual Booster Pump Replacement	\$ 53,000	Water Distribution	P	\$ 2,730,174	Mar-22	<b>Booster Pump Replacement</b> - Replace 15-yr and older booster pump with new pump assembly and high efficiency motor - Replace Booster 26 at Cresta Heights Reservoir
Stormwater Recharge CVC Park - Planning	\$ 30,000	Water Supply	P	\$ 2,760,174	Jun-22	<b>Stormwater Recharge - <u>Continuation from FY 20/21</u></b> - Concept plan, grant funding options and coordination with stakeholders
Disinfection - Conversion to Chloramines	\$ 75,000	Water Treatment	P	\$ 2,835,174	Dec-21	<b>Disinfection Changeover</b> - Utilizing a consultant to assist operations staff with conversion, monitoring and standard operating procedures
<b>Pay-Go Subtotal</b>	<b>\$ 2,960,174</b>					
<b>Total CIP</b>	<b>\$ 5,265,000</b>					

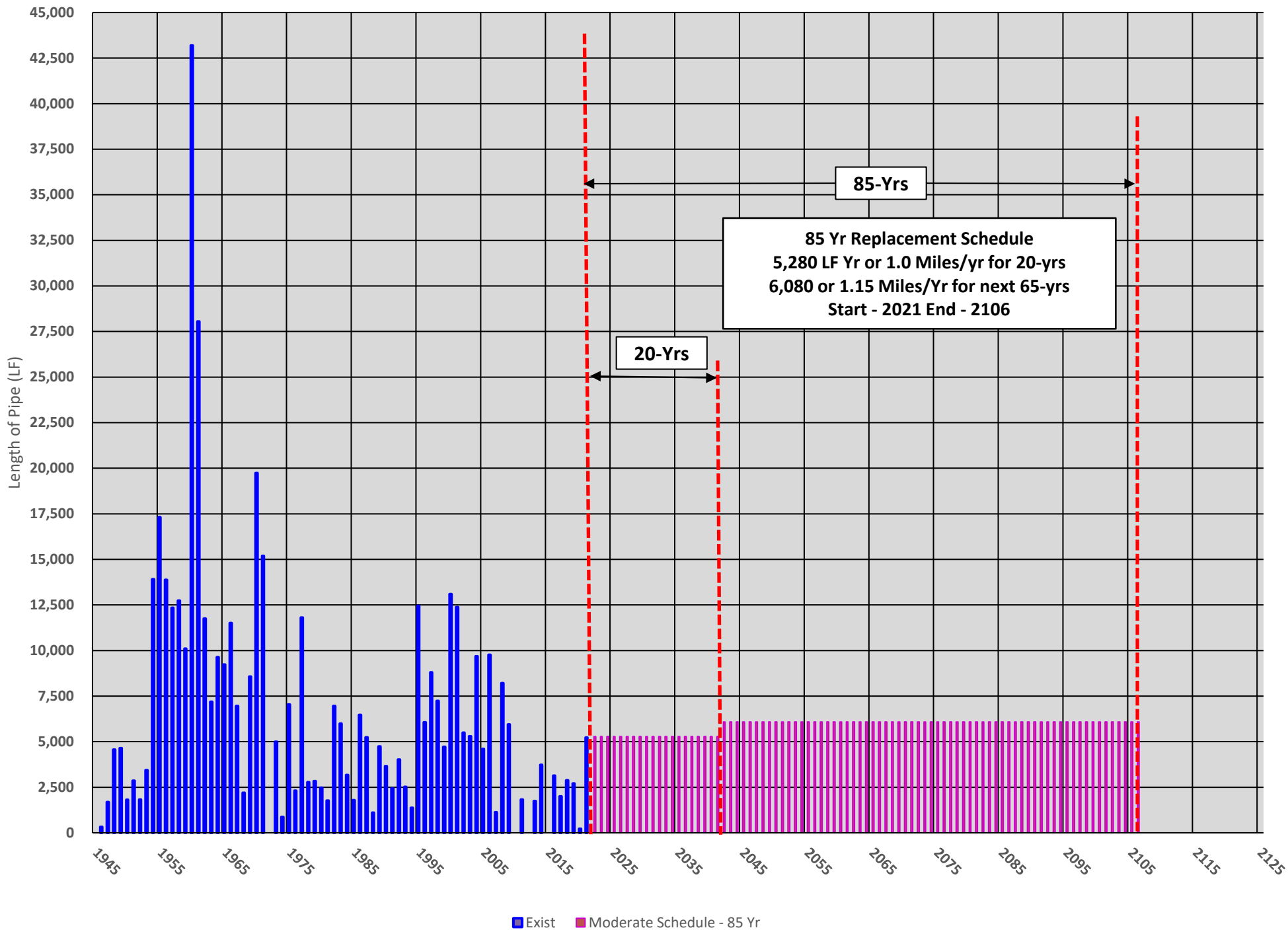
# Pipeline Replacement 75-year Schedule



# Pipeline Replacement 75-year Schedule



# Pipeline Replacement 85-year Schedule







5- year CIP Program Preliminary - 03/15/21	Projected FY 20/21	Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26
<b>5-Year Capital Improvement Project Summary</b>						
1. Water Supply	\$ 171,106	\$ 135,000	\$ 265,000	\$ 118,000	\$ 122,000	\$ 126,000
2. Water Storage	\$ 635,181	\$ 590,000	\$ 731,000	\$ 751,000	\$ 800,000	\$ 1,076,000
3A. Water Distribution - Pipeline	\$ 2,420,500	\$ 2,600,000	\$ 2,800,000	\$ 3,000,000	\$ 3,200,000	\$ 3,400,000
3B. Water Distribution - Other	\$ 240,951	\$ 846,000	\$ 175,000	\$ 124,000	\$ 89,000	\$ 95,000
4. Water Treatment	\$ 44,591	\$ 75,000	\$ -	\$ -	\$ -	\$ -
5. Technology	\$ 1,032,000	\$ 1,019,000	\$ 815,000	\$ 831,000	\$ 620,000	\$ -
6. Public Safety/Emergency Response	\$ 165,000	\$ -	\$ 64,000	\$ 176,000	\$ 169,000	\$ 150,000
7. Facilities & Planning	\$ 592	\$ -	\$ 150,000	\$ -	\$ -	\$ 153,000
<b>Capital Improvement Projects - Total</b>	<b>\$ 4,709,921</b>	<b>\$ 5,265,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>
<b>Bond Financing - CIP</b>	<b>\$ 2,695,174</b>	<b>\$ 2,304,826</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Water Fund Financing - CIP</b>	<b>\$ 2,014,747</b>	<b>\$ 2,960,174</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>
<b>Total Financing - CIP</b>	<b>\$ 4,709,921</b>	<b>\$ 5,265,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>

5- year CIP Program Preliminary - 03/15/21	Projected FY 20/21	Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26
<b>1. Water Supply</b>						
<b>A. Groundwater Water Supply</b>						
<b>i. Well Rehabilitation</b>						
Well 11 Rehabilitation	\$ 56,106					
Well 9 Rehabilitation	\$ 95,000					
Well 14 Rehabilitation		\$ 105,000				
Well Rehabilitation (1 Well per year)			\$ 115,000	\$ 118,000	\$ 122,000	\$ 126,000
<b>ii. New Wells</b>						
Well 19 - Design					\$ -	
Well 19 - Construction						\$ -
<b>iii. Groundwater Basin Recharge</b>						
Stormwater Recharge Project at CVC Park - Planning	\$ 20,000	\$ 30,000				
Storm water Recharge Project at CVC Park - Design			\$ 150,000			
Storm water Recharge Project at CVC Park - Construction				\$ -	\$ -	
<b>D. Water Supply Studies</b>						
Verdugo Basin Groundwater Model			\$ -			
Groundwater Well Replacement Study					\$ -	
<b>WS Total</b>	<b>\$ 171,106</b>	<b>\$ 135,000</b>	<b>\$ 265,000</b>	<b>\$ 118,000</b>	<b>\$ 122,000</b>	<b>\$ 126,000</b>
<b>2. Water Storage</b>						
<b>A. Reservoir Rehabilitation</b>						
<b>i. Steel Reservoir Rehabilitation</b>						
Rosemont	\$ 580,000					
Oak Creek - 16" Manifold Repair	\$ 55,181					
Edmund #2		\$ 590,000				
Goss Canyon #1			\$ 595,000			
Goss Canyon #2				\$ 595,000		
Shields					\$ 650,000	
Eagle Canyon						\$ 775,000
<b>ii. Concrete Reservoir Rehabilitation</b>						
Encinal						\$ 145,000
<b>B. Reservoir Water Quality</b>						
<b>i. Water Quality Mixing System</b>						
Reservoir Mixing System - 2 Reservoirs			\$ 136,000			
Reservoir Mixing System - 2 Reservoirs				\$ 156,000		
Reservoir Mixing System - 3 Reservoirs					\$ 150,000	
Reservoir Mixing System - 4 Reservoirs						\$ 156,000

5- year CIP Program Preliminary - 03/15/21	Projected FY 20/21	Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26
<b>C. Water Storage Studies</b>						
<i>Reservoir Inlet/Outlet &amp; Overflow Piping Study</i>			\$ -			
<i>Ocean View #2 Reservoir Feasibility Study</i>			\$ -		\$ -	
<b>WS Total</b>	<b>\$ 635,181</b>	<b>\$ 590,000</b>	<b>\$ 731,000</b>	<b>\$ 751,000</b>	<b>\$ 800,000</b>	<b>\$ 1,076,000</b>
<b>3. Water Distribution</b>						
<b>A. Pipeline Replacement</b>						
<i>Annual Pipeline Replacement</i>	<b>\$ 2,420,500</b>	<b>\$ 2,600,000</b>	<b>\$ 2,800,000</b>	<b>\$ 3,000,000</b>	<b>\$ 3,200,000</b>	<b>\$ 3,400,000</b>
<b>C. Booster Pump System</b>						
<b>i. Annual Pump /Motor Replacement</b>						
<i>Boosters - Glenwood 32 &amp; 33</i>	<b>\$ 85,951</b>					
<i>Annual Booster Replace - 1 Booster</i>	<b>\$ 25,000</b>	<b>\$ 53,000</b>	<b>\$ 85,000</b>	<b>\$ 86,000</b>	<b>\$ 89,000</b>	<b>\$ 95,000</b>
<b>ii. Pump Station Upgrade</b>						
<i>Paschall Booster Station</i>			\$ -	\$ -	\$ -	
<i>Edmund #2 - Booster Station</i>						\$ -
<b>iii. MCC Replacement</b>						
<i>Paschall</i>			\$ -	\$ -	\$ -	
<i>Edmund #2</i>						\$ -
<b>D. Pressure Reducing Stations</b>						
<i>PRS - Zone 2 to Zone 1</i>	<b>\$ 80,000</b>					
<b>E. Miscellaneous Projects</b>						
<b>i. Water Surge Control</b>						
<i>Rehabilitation Surge Tank at Glenwood</i>	<b>\$ -</b>			<b>\$ 38,000</b>		
<b>iii. Misc.</b>						
<i>Upgrade - Ramsdell Mixing Station</i>	<b>\$ 50,000</b>	<b>\$ 793,000</b>				
<i>Mills Plant - Aeration Tower</i>			<b>\$ 90,000</b>			
<b>F. Water Distribution Studies</b>						
<b>WD Total</b>	<b>\$ 2,661,451</b>	<b>\$ 3,446,000</b>	<b>\$ 2,975,000</b>	<b>\$ 3,124,000</b>	<b>\$ 3,289,000</b>	<b>\$ 3,495,000</b>
<b>4. Water Treatment</b>						
<b>A. Nitrate Removal</b>						
<b>i. Glenwood</b>						
<i>Replace Ion Exchange Resin at Glenwood</i>					\$ -	
<b>C. Disinfection - Convert to Chloramines</b>						
<i>Conversion to Chloramination</i>	<b>\$ 44,591</b>	<b>\$ 75,000</b>				
<b>WT Total</b>	<b>\$ 44,591</b>	<b>\$ 75,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

5- year CIP Program Preliminary - 03/15/21	Projected FY 20/21	Budget FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26
<b>5. Technology</b>						
<b>A. Automated Meter Information (AMI) System</b>						
AMI - 3/4" to 1" - Smart Meters	\$ 100,500	\$ 133,000	\$ 19,200			
1-1/2" & 2" Smart Meters			\$ 250,800	\$ 263,475	\$ 16,250	
3" & 4" Smart Meters		\$ 300,000				
AMI - Meter Lids			\$ 545,000	\$ 567,525	\$ 603,750	
AMI - Communication	\$ 301,500					
AMI - Customer Service Interface		\$ 87,000				
<b>B. Supervisory Control and Data Acquisition (SCADA) System</b>						
Communication Radio Network	\$ 130,000	\$ 125,000				
SCADA Replacement - Installation	\$ 500,000	\$ 374,000				
<b>TECH Total</b>	<b>\$ 1,032,000</b>	<b>\$ 1,019,000</b>	<b>\$ 815,000</b>	<b>\$ 831,000</b>	<b>\$ 620,000</b>	<b>\$ -</b>
<b>6. Public Safety/Emergency Response</b>						
<b>A. Emergency Electrical Generators</b>						
New Emergency Electrical Generator - Mills Plant		\$ -				
<b>B. Water Storage</b>						
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
<b>C. Security</b>						
Security Cameras - Reservoir Sites			\$ 64,000			
Security Cameras - Well Sites				\$ 50,000		
Security Cameras - Other Sites					\$ 23,000	
<b>D. Miscellaneous</b>						
FEMA Local Hazard Mitigation Plan	\$ 165,000					
<b>SF/ER Total</b>	<b>\$ 165,000</b>	<b>\$ -</b>	<b>\$ 64,000</b>	<b>\$ 176,000</b>	<b>\$ 169,000</b>	<b>\$ 150,000</b>
<b>7. Facilities &amp; Planning</b>						
<b>D. Reservoir Site Improvements</b>						
Roof for Old Encinal - Storage Bldg	\$ 592	\$ -				
Facilities Maintenance Master Plan			\$ 150,000			
Facilities Upgrade & Improvements						\$ 153,000
<b>5. Misc. Properties</b>						
<b>F &amp; P Total</b>	<b>\$ 592</b>	<b>\$ -</b>	<b>\$ 150,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 153,000</b>
Capital Improvement Projects - Total	\$ 4,709,921	\$ 5,265,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000

# CRESCENTA VALLEY WATER DISTRICT

## STAFF REPORT

Information Item No. 3  
March 16, 2021

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

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### **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 available for FY 20/21 CIP. The \$5M Bond process was completed on September 15, 2020.

### **DISCUSSION:**

The following is the **March 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:** Harper and Associates Engineering (Harper) and staff completed the design and project was awarded to Crosno Construction.  
**Project Schedule:** On Schedule
  - January 2021 – Re-coating work began.
  - April 2021 – Anticipate work to be completed.
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. **Project 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:** Staff completed design, and project awarded to Brkich Construction.  
**Project Schedule:** Behind Schedule
    - March 8, 2021 – Begin construction on the 2400 & 2500 Blocks of Janet Lee
    - May 2021 – Anticipate work to be completed.
  - B. **Projects 3:** Replacement of 10-inch pipeline on the 3400 & 3500 Blocks of Encinal (Project 3)  
**Progress:** Civiltec and staff completed the design and project awarded to T.E. Roberts Const.  
**Project Schedule:** Behind Schedule
    - March 15, 2021 – Begin construction
    - May 2021 – Anticipate work to be completed.
  - 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).  
**Progress:** Civiltec and staff completed the design and project awarded to Brkich Construction.  
**Project Schedule:** On Schedule
    - April 5, 2021 – Begin Construction
    - July 2021 – Anticipate work to be completed.

3. **Local Hazard Mitigation Plan** - CVWD awarded a grant from Cal OES and FEMA to prepare a Local Hazard Mitigation Plan (LHMP) to address high priority hazards related to its water and sewer systems during a drought, energy shortage/outage, wildfire, earthquake, terrorism or cyber-attack. 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:** Steering Committee Meeting #6 will be on 3/17/21, LHMP Core Team meets bi-weekly to coordinate the plan, and information is updated regularly on CVWD's website

**Project Schedule:** On Schedule

- April 21, 2021 – Public Meeting
- LHMP to be completed by October 2021.

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:** On Schedule

- March 2021 to April 2021 – Shop drawing approval, order, and delivery emergency generator
- April 2021 to July 2021 – Construction

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 Zones 1 & 2, and 2) installation of the AMI network communication system.

**Progress:** Field crews have replaced around 403 ¾-inch & 1-inch water meters for FY 20/21. Esource completed the RFQ, and contract awarded to Aqua Metric for the AMI network communication system.

**Project Schedule:** On Schedule

- January 2021 to May 2021 – Installation and verification of AMI network communication system & installation of 100 meters for proof of concept.

6. **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 6 years ago, is nearing the end of its useful life and has been malfunctioning.

**Progress:** Staff completed the RFP and awarded the contract to Systems Integrated to prepare a SCADA radio feasibility study (Study).

**Project Schedule:** On Schedule

- January 2021 - Systems Integrated working on assessment of the current equipment and developing options.
- April 2021 - Study to be completed.

7. **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.

8. **Groundwater Well Rehabilitation** – This project is for the rehabilitation of Well 12, which was last rehabilitated in 2010.

**Progress:** The project is design complete, and the contract was awarded to Legend Pump.

**Project Schedule:** On Schedule

- March 2021 – April 2021 - Construction

9. **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

10. **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 - Project canceled due to higher-than-expected costs.

11. **New Pressure Reducing Valve (PRV) Station & Upgrade Ramsdell/Mayfield Mixing Station** – This project includes the installation of 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 is working on the request for proposal.

**Project Schedule:** Behind Schedule

- April 2021 – Send out RFP.
- May 2021 – RFP Due
- June 2021 – Award of Consulting Contract

12. **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 that provides information on the status of the water system, controls for booster pump operation, and relays 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.

**Progress:** Staff is currently working on an assessment of the current equipment and programing to prepare a request for proposal with a scope of work for a consulting firm.

**Project Schedule:** On Schedule

- April 2021 – Send out Request for Proposal (RFP)
- May 2021 – Award of Consulting Contract

13. **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:** Staff met with LADWP and are preparing a proposal outlining the project and water rights to discuss further with LADWP.

**Project Schedule:** On Schedule



- March 2021 – Finalize request letter with LADWP.
- April 2021 – Present to future Engineering Committee on status of project.

14. **Rehabilitation Surge Tank at Glenwood** – This project is the rehabilitation of the surge tank at the Glenwood plant. A preliminary design was completed in 2017.

**Progress:** Project put on hold

**SUMMARY:**

In summary, many of the FY 20/21 CIP projects are either under design or starting construction. 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:



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

Attachment: FY 20/21 Capital Improvement Project Program - Cost Update: 3/15/21

<b>FY 20/21 Capital Improvement Project Program Cost Update: 03/15/21</b>	<b>Recorded FY 19/20</b>	<b>Budget FY 20/21</b>	<b><i>FY 20/21 Cost to date from 7/1/20 to 02/28/21</i></b>	<b><i>FY 20/21 Cost Committed from 3/01/21 to 6/30/21</i></b>	<b>Projected FY 20/21</b>
<b>Capital Improvement Project Summary</b>					
<b>1. Water Supply</b>	\$ 300,375	\$ 170,000	\$ 60,259	\$ 110,847	\$ 171,106
<b>2. Water Storage</b>	\$ 498,530	\$ 480,000	\$ 113,031	\$ 522,150	\$ 635,181
<b>3A. Water Distribution - Pipeline</b>	\$ 1,126,030	\$ 2,300,000	\$ 254,161	\$ 2,166,338	\$ 2,420,500
<b>3B. Water Distribution - Other</b>	\$ 10,892	\$ 710,000	\$ 125,670	\$ 115,281	\$ 240,951
<b>4. Water Treatment</b>	\$ 469,205	\$ -	\$ 44,591	\$ -	\$ 44,591
<b>5. Technology</b>	\$ 152,597	\$ 1,070,000	\$ 261,158	\$ 770,842	\$ 1,032,000
<b>6. Public Safety/Emergency Response</b>	\$ 5,810	\$ 165,000	\$ 39,380	\$ 125,620	\$ 165,000
<b>7. Facilities &amp; Planning</b>	\$ -	\$ 105,000	\$ 592	\$ -	\$ 592
<b>Capital Improvement Projects - Total</b>	\$ 2,563,438	\$ 5,000,000	\$ 898,843	\$ 3,811,078	\$ 4,709,921
<b>Bond Financing - CIP</b>	\$ -	\$ 2,695,174	\$ 551,009	\$ 2,144,165	\$ 2,695,174
<b>Water Fund Financing - CIP</b>	\$ 2,563,438	\$ 2,304,826	\$ 347,835	\$ 1,666,912	\$ 2,014,747
<b>Total Financing - CIP</b>	\$ 2,563,438	\$ 5,000,000	\$ 898,843	\$ 3,811,078	\$ 4,709,921

FY 20/21 Capital Improvement Project Program Cost Update: 03/15/21		Recorded FY 19/20	Budget FY 20/21	<u>FY 20/21</u> Cost to date from 7/1/20 to 02/28/21	<u>FY 20/21</u> Cost Committed from 3/01/21 to 6/30/21	Projected FY 20/21
<b>1. Water Supply</b>						
<b>A. Groundwater Water Supply</b>						
<b>i. Well Rehabilitation</b>						
	Well 7 Rehabilitation	\$ 102,696				
	Well 16 Rehabilitation	\$ 103,713				
	Well 11 Rehabilitation	\$ 14,694	\$ -	\$ 56,106	\$ -	\$ 56,106
	Well 12 Rehabilitation		\$ 95,000	\$ 2,885	\$ 92,115	\$ 95,000
<b>ii. New Wells</b>						
	Re-Activate Well 2 - Construction	\$ 79,272				
<b>iii. Groundwater Basin Recharge</b>						
	Stormwater Recharge Project at CVC Park - Planning		\$ 75,000	\$ 1,268	\$ 18,732	\$ 20,000
<b>D. Water Supply Studies</b>						
	<b>WS Total</b>	\$ 300,375	\$ 170,000	\$ 60,259	\$ 110,847	\$ 171,106
<b>2. Water Storage</b>						
<b>A. Reservoir Rehabilitation</b>						
<b>i. Steel Reservoir Re-Coating/Roof/Vents Rehabilitation</b>						
	Markridge	\$ 498,530				
	Rosemont		\$ 480,000	\$ 57,850	\$ 522,150	\$ 580,000
	Oak Creek - 16" Manifold Repair		\$ -	\$ 55,181	\$ -	\$ 55,181
	<b>WS Total</b>	\$ 498,530	\$ 480,000	\$ 113,031	\$ 522,150	\$ 635,181
<b>3. Water Distribution</b>						
<b>A. Pipeline Replacement</b>						
	3200 & 3300 Blocks of Brookhill	\$ 623,009				
	4700 & 4800 Block of Pennsylvania	\$ 503,021				
	Project 1		\$ 538,000	\$ 117,236	\$ 445,514	\$ 562,750
	Project 2		\$ 280,000	\$ 14,873	\$ 289,877	\$ 304,750
	Project 3		\$ 707,000	\$ 58,402	\$ 691,598	\$ 750,000
	Project 4		\$ 775,000	\$ 63,651	\$ 739,349	\$ 803,000
	Annual Pipeline Replacement		\$ 2,300,000	\$ 254,161	\$ 2,166,338	\$ 2,420,500
<b>C. Booster Pump System</b>						
	Boosters - Glenwood 32 & 33	\$ 4,384	\$ -	\$ 85,951	\$ -	\$ 85,951
	Booster Replace - Booster B at Paschall		\$ 75,000	\$ 17,735	\$ 7,265	\$ 25,000

<b>FY 20/21 Capital Improvement Project Program Cost Update: 03/15/21</b>	<b>Recorded FY 19/20</b>	<b>Budget FY 20/21</b>	<b><u>FY 20/21</u> Cost to date from 7/1/20 to 02/28/21</b>	<b><u>FY 20/21</u> Cost Committed from 3/01/21 to 6/30/21</b>	<b>Projected FY 20/21</b>
<b>D. Pressure Reducing Stations</b>					
<i>PRS - Zone 2 to Zone 1</i>	\$ 6,508	\$ 150,000	\$ 21,984	\$ 58,016	\$ 80,000
<b>E. Miscellaneous Projects</b>					
<b>i. Water Surge Control</b>					
<i>Rehabilitation Surge Tank at Glenwood</i>		\$ 35,000	\$ -	\$ -	\$ -
<b>iii. Misc.</b>					
<i>Upgrade - Ramsdell Mixing Station</i>	\$ -	\$ 450,000	\$ -	\$ 50,000	\$ 50,000
<b>WD Total</b>	\$ 1,136,922	\$ 3,010,000	\$ 379,832	\$ 2,281,619	\$ 2,661,451
<b>4. Water Treatment</b>					
<b>C. Disinfection - Convert to Chloramines</b>					
<i>Conversion to Chloramination</i>	\$ 469,205	\$ -	\$ 44,591	\$ -	\$ 44,591
<b>WT Total</b>	\$ 469,205	\$ -	\$ 44,591	\$ -	\$ 44,591
<b>5. Technology</b>					
<b>A. Automated Meter Information (AMI) System</b>					
<i>AMI - 3/4" to 1" - Smart Meters</i>	\$ 83,590	\$ 50,000	\$ 45,954	\$ 54,546	\$ 100,500
<i>AMI - Communication</i>		\$ 150,000	\$ 137,862	\$ 163,638	\$ 301,500
<b>B. Supervisory Control and Data Acquisition (SCADA)</b>					
<i>Communication Radio Network</i>		\$ 260,000	\$ 4,660	\$ 125,340	\$ 130,000
<i>SCADA Replacement - Design</i>	\$ 69,007				
<i>SCADA Replacement - Installation</i>		\$ 610,000	\$ 72,682	\$ 427,318	\$ 500,000
<b>TECH Total</b>	\$ 152,597	\$ 1,070,000	\$ 261,158	\$ 770,842	\$ 1,032,000
<b>6. Public Safety/Emergency Response</b>					
<b>D. Miscellaneous</b>					
<i>FEMA Local Hazard Mitigation Plan</i>		\$ 165,000	\$ 39,380	\$ 125,620	\$ 165,000
<b>SF/ER Total</b>	\$ 5,810	\$ 165,000	\$ 39,380	\$ 125,620	\$ 165,000
<b>7. Facilities &amp; Planning</b>					
<b>D. Reservoir Site Improvements</b>					
<i>Roof for Old Encinal - Storage Bldg</i>		\$ 105,000	\$ 592	\$ -	\$ 592
<b>F &amp; P Total</b>	\$ -	\$ 105,000	\$ 592	\$ -	\$ 592
<b>Capital Improvement Projects - Total</b>	\$ 2,563,438	\$ 5,000,000	\$ 898,843	\$ 3,811,078	\$ 4,709,921