

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
June 21, 2022 at 3:00 PM

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

Posted June 17, 2022 at 3:00 PM

TELECONFERENCING NOTICE

Under AB 361 and District Resolution No. 772, the District will continue to hold Board and Committee meetings by teleconference, due to the continuing State of Emergency for COVID-19 and the ongoing imminent risks to the health or safety of the attendees from COVID-19.

[This meeting will be held by teleconference only.]

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: 861 7183 4796

[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/86171834796>

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

Call to Order

Adoption of Agenda

Public Comment:

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

Action Items

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

1. Status of Local & Imported Water Supply
2. Review the Request for Proposal for the 2600 & 2700 Blocks of Orange Ave - FY 22/23 Pipeline Replacement
3. Discussion of Pipeline Replacement on the 3000 & 3100 Blocks of Montrose and the 2300 Block of Jayma Lane as Part of FY 22/23 Pipeline Replacement
4. Status Update - FY 21/22 Capital Improvement Project Budget

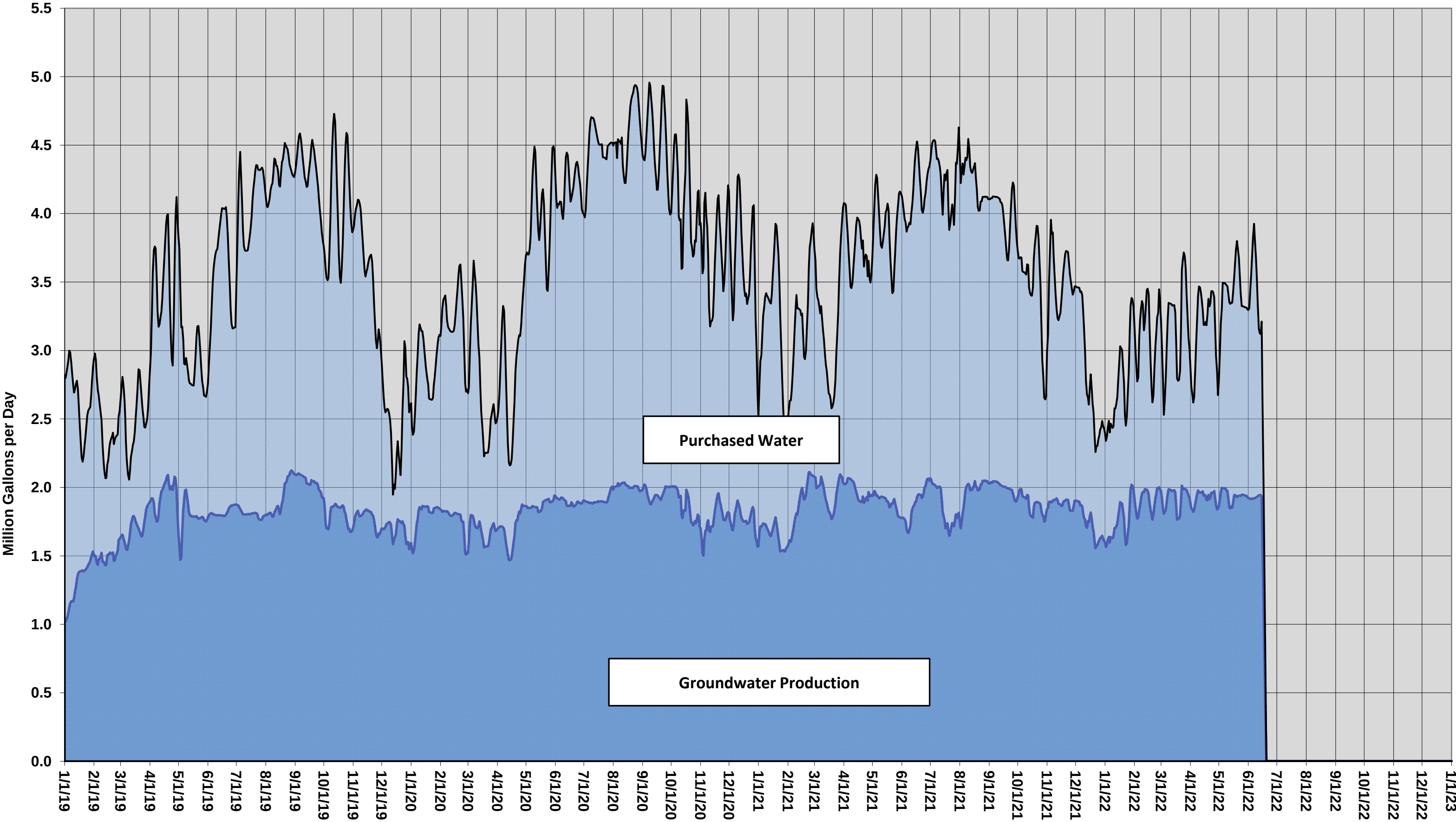
Committee Member's Request for Future Agenda Items

Next Engineering Committee Meeting – July 19, 2022, at 3:00 pm

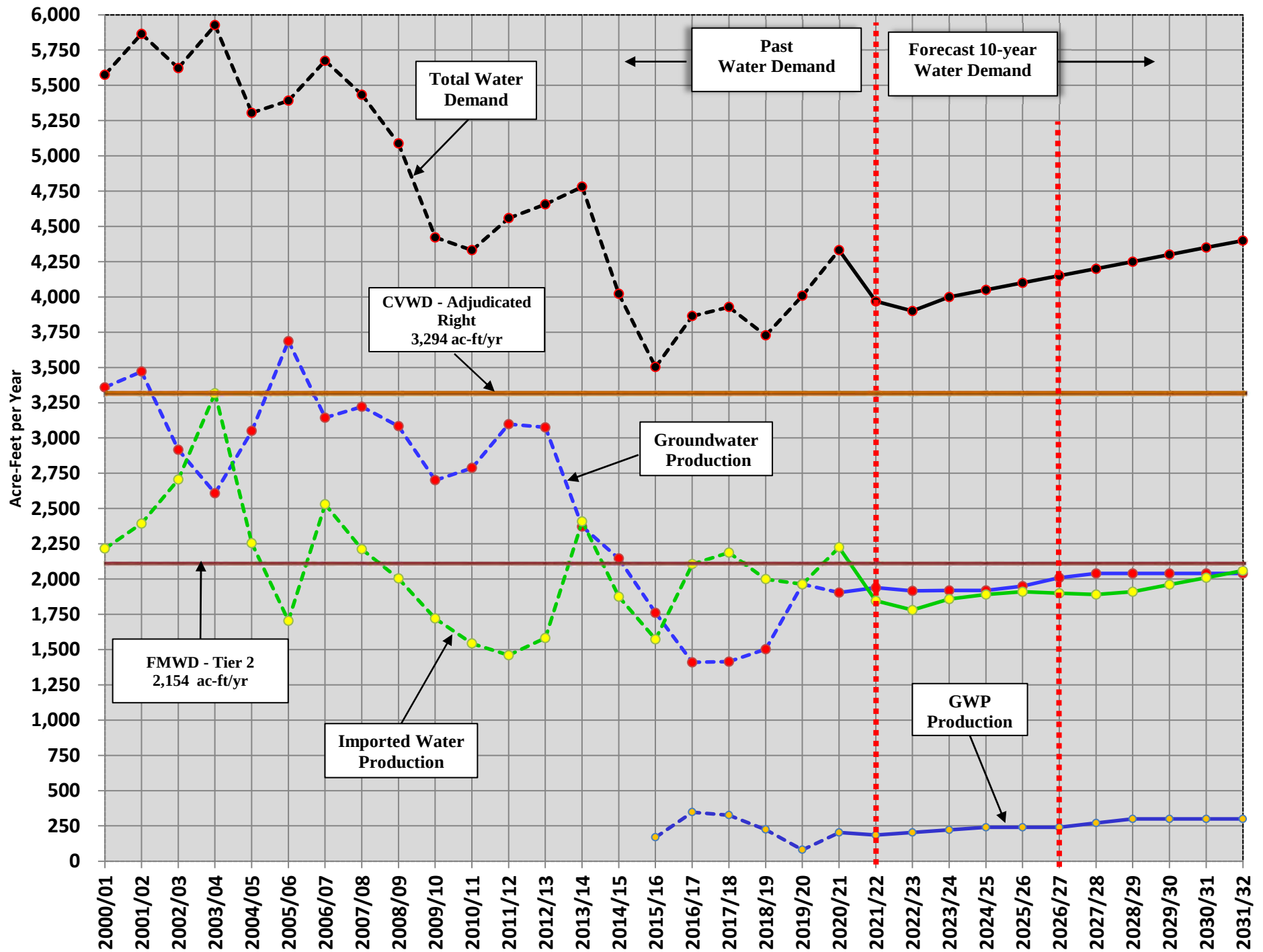
Adjournment

Water Production Chart 2019-2022

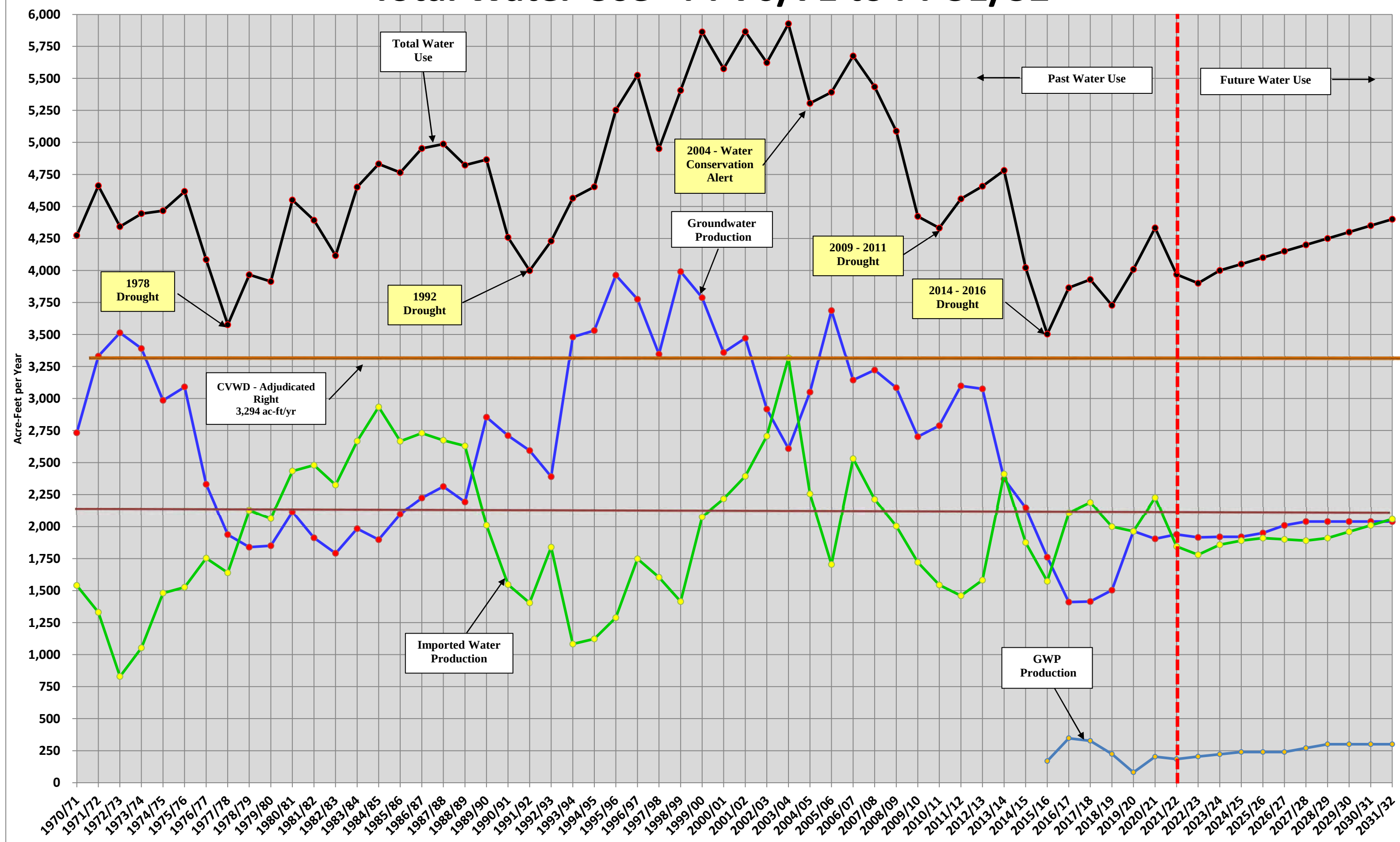
■ Groundwater Production (MGD) ■ Total Water (MGD)



Water Demand Projections - FY 00/01 to FY 31/32 - Update 06/21/22



Total Water Use - FY 70/71 to FY 31/32



CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 2

June 21, 2022

To: Engineering Committee

From: Brook Yared, P.E. –Engineering Manager

Subject: Request for Proposal - Professional Engineering Services for Design of FY 22/23 Pipeline Replacement Project, Project E-1046

BACKGROUND:

Crescenta Valley Water District (CVWD) is embarking on its FY 22/23 capital improvement project program to replace old and undersized steel pipelines within its water distribution system. The District's goal is to replace all pipelines 50-ys & older within the next 85-years. Currently, about 45% of CVWD's pipelines meet this criterion. To meet this goal, staff has put together a program called the "Ramp-up" program. The Ramp Up program starts out at replacing 1.0 miles per year and increases to 2.5 miles in 10 years and then ramps down to 1.0 miles per year for the final 10 years. The specific pipelines to be replaced are based on age of pipeline, pipe size, pipe material and number of previous leaks. The pipelines are also grouped within a specific area of the District for ease of construction.

CVWD's Board approved the FY 22/23 Water Budget in May 2022, and the approved budget showed \$2.5M available for pipeline replacement as part of the CIP budget. With recent changes in economic climate and the recent drought in California, CVWD is deviating from the Ramp Up Program due to these conditions and will be replacing 2,500 LF of pipeline.

CVWD's Engineering Department in previous years, performed the planning, design, specification development, potholing, trench marking, materials ordering, bidding, community outreach, construction administration, and inspection for the pipeline replacement projects.

Staff will need the assistance of a consulting engineering firm to prepare design plans and specifications, including base map survey, performing potholing, obtaining permits from Los Angeles County, Public Works, and Fire Department and DDW, provide quantities list for ordering material prior to construction, and assistance during bidding and construction administration.

The pipeline schedule to be replaced the 12-inch & 6-inch water main on the 2600 & 2700 Blocks of Orange Ave with a new 12-inch water main. Also, replacement of 6-inch water main on the 4800 Block of Adobe Lane, with 575 LF of new 8-inch main as shown in the table below.

Block No.	Street Name	Year Const.	Ex. Pipe Size (in)	New Pipeline Dia. (in)	Length (LF)	Contractor Cost Estimate	Consultant, Materials, Permits, etc.	Total Cost Estimate	Cost/LF
2600	Orange Ave (North)	1947	12	12	1250	\$498,969	\$230,928	\$729,897	
2600	Orange Ave (South)	1947	6	-					
2700	Orange Ave	1953	6	12	600	\$239,505	\$110,845	\$350,350	
5000	Adobe Ln	1948	6	6	575	\$229,526	\$106,227	\$335,753	
	Total				2,425	\$968,000	\$448,000	\$1,416,000	\$584

DISCUSSION:

Staff has prepared a request for proposal (RFP) that will be sent out to at least seven (7) consulting engineering firms to provide a proposal for the project. Each firm has prior experience with providing design services for similar pipeline replacement projects. Attached for your review is the RFP that included the scope of work and other project parameters. Staff has estimated budget of \$115,500 for professional service as outlined in the RFP.

PROJECT SCHEDULE:

Staff also prepared a project schedule for the design, permitting and construction of the project as shown below:

<u>Task</u>	<u>Date</u>
Proposal sent to Consultants	June 23, 2022
Pre-Proposal Meeting – Web Conference	July 1, 2022
Proposal Due	July 20, 2022
Award of Contract	July 26, 2022
Kick Off Meeting	July 28, 2022
Final Design and Permits	October 6, 2022
Board Approval – Advertisement for Bids	October 11, 2022
Pre-Bid Meeting	October 26, 2022
Bid Opening	November 9, 2022
Board Approval – Award of Contract	December 13, 2022 (Tentative)
Start Construction	January 9, 2023

The proposals will be reviewed and ranked in accordance to the following categories and weighted percentages: 1) Proposal, Project Concept & Scope of Work– 30%, 2) Previous work experience – 30%, 3) Expertise of project staff on similar projects – 20%, 4) Coordination with agencies – 10%, and 5) Costs of service – 10%.

RECOMMENDATION:

It is staff's recommendation to the Engineering Committee to proceed with sending out the RFP and bring this item back to a future Board Meeting for approval.

Prepared by:



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

Submitted by:



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

Attachments:

1. Project Location Maps
2. Request for Proposal



REQUEST FOR PROPOSAL

PROFESSIONAL ENGINEERING SERVICES FOR DESIGN OF FY 22/23 PIPELINE REPLACEMENT PROJECT, PROJECT E-1046

PROPOSAL DUE DATE: July 20, 2022

INTRODUCTION:

Crescenta Valley Water District (CVWD) is embarking on its FY 22/23 capital improvement project program, which includes the replacement of old and undersized steel pipelines within the water distribution system. The District's goal is to maintain a pipeline replacement schedule that will replace all pipelines within an 85-year period. Currently about 50% of CVWD's pipelines will be over 85 years old in the next 30 years. To meet this goal, CVWD would have to replace approximately 50 miles of pipeline over the next 30-years, about 1.5 miles of pipeline annually. The specific pipelines to be replaced per year are based on age of pipeline, pipe size, pipe material and number of previous leaks. The pipelines are also grouped within a specific area of the District for ease of construction.

CVWD's Board approved the FY 22/23 Water Budget in May 2022, and the approved budget showed \$2.5M available for pipeline replacement as part of the CIP budget. With recent changes in economic climate, CVWD is deviating from the 1.25 miles of pipeline replacement planned for this coming fiscal year and attempting to return to the original pipeline replacement schedule in the future to accommodate for the 85-year replacement schedule. CVWD's Engineering Department in previous years, performed the planning, design, specification development, potholing, trench marking, materials ordering, bidding, community outreach, construction administration, and inspection for pipeline projects.

For CVWD to meet the accelerated pipeline replacement schedule, we will need the assistance of a consulting engineering firm to prepare design plans and specifications to replace the existing pipelines (as shown in the table below) with approximately 1850 LF of new 12-inch water main and replace the existing 6-inch main on Adobe Lane with 575 LF of new 6-inch main. CVWD is planning to advertise and bid this work as one project and complete the project by June 30, 2023.

Block No.	Street Name	Year Const.	Ex. Pipe Size (in)	New Pipeline Dia. (in)	Length (LF)	Contractor Cost Estimate	Consultant, Materials, Permits, etc.	Total Cost Estimate	Cost/LF
2600	Orange Ave (North)	1947	12	12	1250	\$498,969	\$230,928	\$729,897	
2600	Orange Ave (South)	1947	6	-					
2700	Orange Ave	1953	6	12	600	\$239,505	\$110,845	\$350,350	
5000	Adobe Ln	1948	6	6	575	\$229,526	\$106,227	\$335,753	
	Total				2,425	\$968,000	\$448,000	\$1,416,000	\$584

SCOPE OF WORK

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

- Topographic survey and right-of-way mapping
- Utility research and compiling for base map.
- Pothole plan for utility crossing and connection to existing water mains, including permits.
- Perform Potholing (subcontractor) and confirmation of the depth and location all utility crossing locations.

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

Deliverables:

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

Project Schedule:

<u>Task</u>	<u>Date</u>
Pre-Proposal Meeting – Web Conference	July 1, 2022
Proposal Due	July 20, 2022
Award of Contract	July 26, 2022
Kick Off Meeting	July 28, 2022
Board Approval – Advertisement for Bids	October 11, 2022
Pre-Bid Meeting	October 26, 2022
Bid Opening	November 9, 2022
Board Approval – Award of Contract	December 13, 2022 (Tentative)
Start Construction	January 9, 2023

PROPOSAL REQUIREMENTS:

Scope of Work

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

Proposal Fee Schedule

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

Schedule

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

Project Experience

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

Consultant's Representative

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

Professional Service Agreement

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

Insurance Requirements

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

District Reimbursements

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

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

District Responsibilities:

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

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

Proposal Due Date:

Please submit one (1) copy of the proposal as a PDF file via e-mail via e-mail by 12:00 pm by July 20, 2022, to byared@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. Brook Yared, Engineering Manager at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. If you have any questions or comments, contact Mr. Yared at (818) 236-4117.

g:\engineering\e-jobs open\e-1046 - 8-inch water main 2600-2700 blocks of orange ave & 5000 abode ln\design\e-1046 - rfp pipeline design v3.docx



Legend

Existing System:

Valve

- Valve
- Water Main
- WtLateral
- WtHydrant

parcels_w_zones_R1

parcels_w_zones_R1

12-inch & 6-inch main to be replaced

Total Length - 1250 ft
Diameter New Pipeline - 12-inch
Material - CMLxCMC, 10 ga. Steel

E-1046 - Orange Ave & Adobe Ln. Pipeline Replacement

Location Map

Maxar, Microsoft, Esri Community Maps Contributors, County of Los Angeles, California State Parks, OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USGS



CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 3

June 21, 2022

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: Discussion of Pipeline Replacement Needs for the 3000 & 3100 Blocks of Montrose and the 2300 Block of Jayma Lane

BACKGROUND:

In the last few months, CVWD has experienced a significant increase in the number of leaks on water mains and water laterals. Two areas that the District has seen this increase is on the 3000 & 3100 Blocks of Montrose and the 2300 Block of Jayma Lane. See attached project location maps.

The pipelines on the 3000 & 3100 Blocks of Montrose are located between Pennsylvania Ave and Ramsdell Ave. The main is a 10-inch diameter steel pipe that was installed in 1960 and has experienced six (6) leaks since 2016. This part of Montrose is a heavily travelled roadway with several apartment/condo buildings and churches.

The pipeline on the 2300 Block of Jayma Lane includes two side streets with 2-inch diameter steel pipe that was installed in 1957 and has also experienced six (6) leaks since 2010. The side streets where the meters are located is a private six-foot-wide roadway in rough terrain, which makes it difficult to get equipment into the area. The pipeline is also located at the bottom of the pressure zone with water pressure being at 220 psi.

DISCUSSION:

These pipelines are not slated to be replaced for another 5–10 years based on the District’s “Ramp-Up” pipeline replacement schedule. Yet, with the recent leaks on these water mains, these pipelines need to be replaced sooner than planned. The benefit of replacing now on a scheduled plan is projected to outweigh the cost of piecemeal repairs when they occur as leaks.

3000 & 3100 Blocks of Montrose:

The scope of work will include installation of a new 12-inch water main, reconnection of 4-6” fire services, nine (9) 2” water meter services; three (3) 3” water meter services, and four (4) 1” water services. In addition, there will need to be extensive traffic control and no-parking areas, which will take advance planning and public outreach to notify the residents of the construction activity. A preliminary estimate of the combined pipeline project is approximately \$1.2 million.

2300 Block of Jayma Lane:

The scope of work as currently determined would include relocating the water service laterals from the 6-ft-wide private roadway and installing the meters on the edge of the cul-de-sac. In addition, each resident’s water service line would need to be re-routed from the private roadway to the cul-de-sac and this will require the replacement of the AC pavement in the roadway. In addition, there will also need to be advance planning and public outreach to notify the residents of the construction activity. Staff is continuing to evaluate options and their associated costs.

SUMMARY

The FY 22/23 CIP budget has allocated \$2.52M for pipeline replacement. One option is to reprioritize the pipeline replacement schedule (e.g., 2600/2700 Blocks of Orange Ave) and include these pipelines in FY 23/24 CIP Budget instead. Staff would like to explore this and other options with the committee.

Prepared by:



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

Submitted by:



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

Attachments:

1. Project Location Maps



Legend

Existing System:

Valve Type

- Ball
- FEBV
- FEGV
- HandWheel
- PRV
- PSV
- Plug
- RSFE
- SCTR
- SEGV
- Tapping
- Zone
- <all other values>

- Water Main
- WtLateral

3000 - 3100 Blocks of
Montrose Avenue



Project Location Map

0 0.01 0.03 0.05 0.08 0.1 Miles

Esri Community Maps Contributors, County of Los Angeles, California State Parks, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, Maxar

Crescenta Valley Water District

FY 22/23 Capital Improvement Project Priority List

Capital Improvement Project Program	Budget FY 22/23	Category	Priority	Cumulative Estimated Costs	Project Description
Annual Pipeline Replacement - 3,055 LF and FY 21/22 Pipeline Carryover Costs	\$ 2,523,650	Water Distribution	1	\$ 2,523,650	Pipeline Replacement - Project 1 - 2600 & 2700 blocks of Orange and 5000 Block of Adobe Ln and Carryover from FY 21/22
Steel Reservoir Rehabilitation - Goss Canyon #1	\$ 800,000	Water Storage	1	\$ 3,323,650	Reservoir Rehabilitation - Structural repairs and re-coating at Goss Canyon #1 Reservoir during low demand (Winter) season
Well 14 Rehabilitation	\$ 144,000	Water Supply	1	\$ 3,467,650	Well Rehabilitation - Remove & Inspect Well Pump & Casing, Chemical Treatment Well Casing, Pump Test, New Pump & Motor
Replacement - SCADA System	\$ 395,000	Technology	1	\$ 3,862,650	Replacement of SCADA System - <u>Continuation from FY 21/22</u> - Completion of the replacement of RTU/PLC Equipment including new equipment, programing, integration an testing
AMI - Replace 3" & 4" Smart Meters with SmartPoints (Grant)	\$ 197,000	Technology	1	\$ 4,059,650	Advanced Metering Infrastructure (AMI) - <u>Continuation from FY 21/22</u> Install 3" & 4" water meters with SmartPoints - USBR Grant
Annual Booster Pump Replacement	\$ 50,000	Water Distribution	2	\$ 4,109,650	Booster Pump Replacement - Replace 15-yr and older booster pump with new pump assembly and high efficiency motor - Replace Booster 26 at Cresta Heights Reservoir
AMI - Replace 1-1/2" Meters (Grant)	\$ 335,000	Technology	2	\$ 4,444,650	Advanced Metering Infrastructure (AMI) -Replace 1-1/2" Meters - USBR Grant
AMI - Zone 9, 10, & 11 - Install Meter Lids & SmartPoints	\$ 220,000	Technology	2	\$ 4,664,650	Advanced Metering Infrastructure (AMI) - Install SmartPoints & Meter Lids in Zones 9, 10 & 11
Disinfection - Conversion to Chloramines	\$ 100,000	Water Treatment	2	\$ 4,764,650	Disinfection Changeover - Utilizing a consultant to assist operations staff with conversion, monitoring and standard operating procedures
New Emergency Electrical Generator - Design	\$ 170,000	Public Safety	2	\$ 4,934,650	New Emergency Electrical Generator - Design of a Stationary 200kW Emergency Electrical Generators at the Mills Plant & Paschall Booster Station; 3 - 70kW Emergency Electrical Generator at Wells 5, 7 & 9 - Cal OES Grant
Stormwater Recharge CVC Park - Planning	\$ 75,000	Water Supply	2	\$ 5,009,650	Stormwater Recharge - <u>Continuation from FY 20/21</u> - Concept plan, grant funding options and coordination with stakeholders
Annual Pipeline Replacement - 1,650 LF	\$ -	Water Distribution	3	\$ 5,009,650	Pipeline Replacement - Project 2 - 3000 & 3100 Blocks of Alabama
Replacement - Communication Radio Network	\$ -	Technology	3	\$ 5,009,650	Replacement of SCADA Radio Communication System - <u>Continuation from FY 21/22</u> - Completion to Upgrading Radio System to 5.8GHz radios
Seismic Vulnerability Study - Main Office & Glenwood Plant	\$ -	Facilities & Planning	3	\$ 5,009,650	Seismic Vulnerability Study - at Main Office & Glenwood Plant - Cal OES Grant
Annual Pipeline Replacement - 1,150 LF	\$ -	Water Distribution	4	\$ 5,009,650	Pipeline Replacement - Project 3 - 3400 & 3500 Blocks of Montrose (1150 LF)
Annual Pipeline Replacement - 1,380 LF	\$ -	Water Distribution	4	\$ 5,009,650	Pipeline Replacement - Project 4 - 2400 - 2600 Blocks of Upper Terrace (1380 LF)
PRS - Zone 2 to Zone 1/Upgrade - Ramsdell Mixing Station	\$ -	Water Distribution	4	\$ 5,009,650	New Pressure Reducing Station & Upgrade Ramsdell Mixing Station - <u>Continuation from FY 21/22</u> - Construction of PRS from Zone 2 to zone 1 & Upgrade to Ramsdell Mixing Station
Pay-Go Total	\$ 5,009,650				

Notes:

Priority Level 1: Projects **MUST** be constructed during FY 22/23

Priority Level 2: Projects **SHOULD** be constructed during FY 22/23

Priority Level 3: Projects **Could Be Postponed** to FY 23/24 (Unless Awarded Grant)

Priority Level 4: Projects **Postponed** to FY 23/24 or later

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 4

June 21, 2022

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: Status Update - FY 21/22 Capital Improvement Project Budget

DISCUSSION:

The following is an update of the FY 21/22 Capital Improvement Project status and budget update.

1. **2800 to 3100 Blocks of Los Olivos (E-1033)**
 - a. Construction Started – March 8, 2022
 - b. Installed 3,400 LF of pipeline and 87 water services to date
 - c. Working on connections of new water mains to system
 - d. End Construction – July 22, 2022
2. **3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thelma St (E-1034)**
 - a. Construction to Start – End of July 2022
 - b. End Construction – September 2022

Summary of FY 21/22 Pipeline Replacement Budget:

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22	E-Job	Budget FY 21/22	<u>FY 21/22</u> Cost to date from 7/1/21 to 5/31/22	<u>FY 21/22</u> Cost Committed from 61/22 to 6/30/22	Projected FY 21/22	Carry Over to FY 22/23
2800 - 3100 Blocks of Los Olivos	E-1033	\$ 1,500,000	\$ 647,082	\$ 250,000	\$ 897,082	\$ 606,594
4700 Block of Cheryl	E-1034	\$ 1,100,000	\$ 247,495	\$ 50,000	\$ 297,495	\$ 566,555
FY 21/22 Pipeline Replacement		\$ 2,600,000	\$ 894,578	\$ 300,000	\$ 1,194,578	\$ 1,173,148

3. FY 20/21 – Pipeline Replacement Projects – Carryover to FY 21/22

- a. E-1022 – Project completed in October 2021

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22	E-Job	Recorded FY 20/21	Budget FY 21/22	<u>FY 21/22</u> Cost to date from 7/1/21 to 5/31/22	<u>FY 21/22</u> Cost Committed from 61/22 to 6/30/22	Projected FY 21/22
2400 & 2500 Blocks of Janet Lee	E-1008	\$ 861,188	\$ -	\$ 59,632	\$ -	
4300 Block of Rosemont	E-1019	\$ 39,407	\$ -	\$ 1,304	\$ -	
3400 & 3500 Block of Encinal	E-1021	\$ 760,569	\$ -	\$ 31,620	\$ -	
4800 block of Dyer, 2800 block of El Caminito, 4800 block of Glenwood, 2800 block of Stevens & 2700 block of Paraiso Way	E-1022	\$ 175,758	\$ 400,000	\$ 638,477	\$ -	
FY 20/21 Pipeline Replacement		\$ 1,836,922	\$ 400,000	\$ 731,033	\$ -	\$ 731,033

4. Steel Reservoir Rehabilitation at Edmund #2 (E-1036)

- Contract awarded to J. Colon Coatings Inc.
- Structural work, interior coating and exterior coating are complete
- Reservoir back in service on May 25, 2022

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22	E-Job	Budget FY 21/22	FY 21/22 Cost to date from 7/1/21 to 5/31/22	FY 21/22 Cost Committed from 61/22 to 6/30/22	Projected FY 21/22
Edmund #2	E-1036	\$ 590,000	\$ 596,627	\$ 134,000	\$ 730,627

5. Replacement of SCADA Equipment, Programing & Integration (E-939)

- APEX Manufacturing Solutions and CVWD have ordered equipment and materials.
- Completed Wells 5, 7, 8, 9, 11, 14, & 16.
- Next Site – Encinal Reservoir and Booster Station.

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22	E-Job	Budget FY 21/22	FY 21/22 Cost to date from 7/1/21 to 5/31/22	FY 21/22 Cost Committed from 61/22 to 6/30/22	Projected FY 21/22
SCADA Replacement - Installation	E-939	\$ 374,000	\$ 248,668	\$ 71,632	\$ 320,300

6. New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station (E-977)

- 90% design under review by staff
- Construction deferred to FY 23/24

The original budget for FY 21/22 was \$728,000 for design and construction. Staff has been working with Cannon on finalizing the design of the project and the preliminary construction cost estimate provided by Cannon was at \$1.4M, which is more than the original cost estimate. Staff reassessed the remaining portions of the project for FY 21/22 with the plan to complete the design in FY 22/23 and construction in FY 23/24.

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22	E-Job	Recorded FY 20/21	Budget FY 21/22	FY 21/22 Cost to date from 7/1/21 to 5/31/22	FY 21/22 Cost Committed from 61/22 to 6/30/22	Projected FY 21/22
Upgrade to Ramsdell Mixing Station - Design	E-977	\$ 2,869	\$ 728,000	\$ 48,594	\$ 1,406	\$ 50,000

7. AMI – Customer Engagement Platform (E-1035)

- WaterSmart completed transferring data from Springbrook
- “Welcome Letter” to customers completed
- Customer Portal layout and content by WaterSmart completed
- Tentative Launch Date – June 29, 2022

8. AMI – Installation of ¾” & 1” meters (E-1035)

- Installation of ¾” & 1” meters within Zone 1
 - Installed 403 meters to-date and Zone 1 should be completed by end of July
- Installation of SmartPoints and Meter Lids in Zone 1
 - Deferred to FY 23/24

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

- a. Site Survey -June to August 2022
- b. Ordering 3” & 4” meters; Delivery September 2022.
- c. Install and connect 32 - 3” & 4” meters starting in September 2022.

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22	E-Job	Budget FY 21/22	FY 21/22 Cost to date from 7/1/21 to 5/31/22	FY 21/22 Cost Committed from 61/22 to 6/30/22	Projected FY 21/22
3” & 4” Smart Meters	E-1031	\$ 200,000	\$ 2,009	\$ 991	\$ 3,000
AMI - 3/4” to 1” - Smart Meters	E-1035	\$ 233,000	\$ 10,411	\$ 1,589	\$ 12,000
AMI - Customer Service Interface	E-1035	\$ 87,000	\$ 45,860	\$ 1,140	\$ 47,000

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

- a. Project 1 – New emergency electrical generators at 5 sites
 - i. New stationary generators at Mills Plant, Paschall Booster Station, & Wells 5, 7 & 9
 - ii. Preliminary cost - \$1.5M
 - 1) 75% reimbursement from Cal OES - \$1.125M
 - 2) 25% reimbursement from CVWD - \$375,000
- b. Project 2 – Seismic Evaluation of CVWD’s facilities application
 - i. Facilities Seismic Vulnerability Study for Main Office and Glenwood Building
 - ii. Preliminary cost - \$100,100
 - 1) 75% reimbursement from Cal OES - \$75,075
 - 2) 25% reimbursement from CVWD - \$25,025

11. Well 9 Rehabilitation

- a. On Hold
- b. Working with General Pump Company on Annual Well & Pump Rehabilitation Contract

12. Booster 26 at Cresta Heights Replacement

- a. On Hold
- b. Working with General Pump Company on Annual Well & Pump Rehabilitation Contract

13. Replacement of SCADA communication radio network (E-1025)

- a. Finalizing Scope of Work
- b. Moved to FY 23/24 CIP Budget

14. Conversion of Disinfection System to Chloramines (E-995)

- a. Moved to FY 22/23 CIP Budget

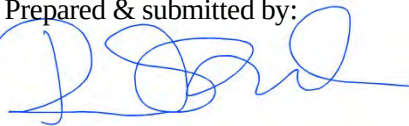
FY 2021/21 CIP Budget

See attached for updated CIP Budget with actual costs to date.

SUMMARY:

Staff continues to provide updated information to the Engineering Committee as the FY 21/22 CIP program progress over the next month.

Prepared & submitted by:



David S. Gould, P.E.

Director of Engineering & Operations

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22	Recorded FY 20/21		Budget FY 21/22	<u>FY 21/22</u> Cost to date from 7/1/21 to 5/31/22	<u>FY 21/22</u> Cost Committed from 6/1/22 to 6/30/22	Projected FY 21/22	Project Rollover to FY 22/23
1. Water Supply	\$ 153,866		\$ 135,000	\$ 7,166	\$ 1,382	\$ 8,548	\$ -
2. Water Storage	\$ 663,213		\$ 616,900	\$ 624,828	\$ 134,000	\$ 758,828	\$ -
3A. Water Distribution - Pipeline - Pyramid - 20 yrs	\$ 1,838,368		\$ 3,000,000	\$ 1,625,928	\$ 300,000	\$ 1,925,928	\$ 1,173,150
3B. Water Distribution - Other	\$ 139,017		\$ 781,000	\$ 48,594	\$ 1,406	\$ 50,000	\$ -
4. Water Treatment	\$ 54,073		\$ 75,000	\$ -	\$ -	\$ -	\$ -
5. Technology	\$ 466,671		\$ 1,019,000	\$ 326,223	\$ 75,352	\$ 401,575	\$ -
6. Public Safety/Emergency Response	\$ 134,549		\$ 30,450	\$ 49,130	\$ -	\$ 49,130	\$ -
7. Facilities & Planning	\$ 3,956		\$ -	\$ -	\$ -	\$ -	\$ -
Capital Improvement Projects - Total	\$ 3,453,712		\$ 5,657,350	\$ 2,681,868	\$ 512,140	\$ 3,194,008	\$ 1,173,150
Bond Financing - CIP	\$ 2,695,174		\$ 2,304,826			\$ 2,304,826	
Water Distribution - Pipeline Total			\$ 3,000,000			\$ 1,925,928	
Remaining CIP			\$ 2,657,350			\$ 1,268,081	
Water Fund Financing - CIP	\$ 758,538		\$ 3,352,524			\$ 889,182	
Total Financing - CIP	\$ 3,453,712		\$ 5,657,350			\$ 3,194,008	

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22			E-Job	Recorded FY 20/21	Budget FY 21/22	<u>FY 21/22</u> Cost to date from 7/1/21 to 5/31/22	<u>FY 21/22</u> Cost Committed from 6/1/22 to 6/30/22	Projected FY 21/22
1. Water Supply								
A. Groundwater Water Supply								
i. Well Rehabilitation								
	Well 11 Rehabilitation			\$	56,106			
	Well 12 Rehabilitation	E-1028		\$	94,042			
	Well 9 Rehabilitation							
iii. Groundwater Basin Recharge								
	Stormwater Recharge Project at CVC Park - Planning	E-985		\$	3,718			
WS Total					\$	153,866		
2. Water Storage								
A. Reservoir Rehabilitation								
i. Steel Reservoir Rehabilitation								
	Markridge			\$	367			
	Rosemont	E-1018		\$	607,665			
	Oak Creek - 16" Manifold Repair	E-1026		\$	55,181			
	Edmund #2	E-1036						
WS Total					\$	663,213		
3. Water Distribution								
A. Pipeline Replacement								
	2400 & 2500 Blocks of Janet Lee	E-1008		\$	861,188			
	4300 Block of Rosemont	E-1019		\$	39,407			
	3400 & 3500 Block of Encinal	E-1021		\$	760,569			
	2800 Block of El Caminito, 4800 Block of Glenwood	E-1022		\$	175,758			
	FY 20/21 Pipeline Replacement			\$	1,836,922			
	2800 - 3100 Blocks of Los Olivos	E-1033		\$	774			
	4700 Block of Cheryl	E-1034		\$	671			
	FY 21/22 Pipeline Replacement			\$	1,445			
i. Annual Pump /Motor Replacement								
	Boosters - Glenwood 32 & 33			\$	85,951			
	Booster - Paschall Booster B	E-1029		\$	20,385			
	Booster - Booster 26 at Cresta Heights							
D. Pressure Reducing Stations								
	PRS - Zone 2 to Zone 1	E-977		\$	32,680			
E. Miscellaneous Projects								
iii. Misc.								
	Upgrade - Ramsdell Mixing Station	E-977		\$	-			
WD Total					\$	1,977,384		
						\$	-	\$
						\$	105,000	\$
						\$	-	\$
						\$	30,000	\$
						\$	2,618	\$
						\$	1,382	\$
						\$	4,000	\$
						\$	135,000	\$
						\$	7,166	\$
						\$	1,382	\$
						\$	8,548	\$
						\$	26,900	\$
						\$	26,929	\$
						\$	-	\$
						\$	1,272	\$
						\$	-	\$
						\$	590,000	\$
						\$	596,627	\$
						\$	134,000	\$
						\$	730,627	\$
						\$	616,900	\$
						\$	624,828	\$
						\$	134,000	\$
						\$	758,828	\$
						\$	59,632	
						\$	1,304	
						\$	31,937	
						\$	638,477	
						\$	400,000	\$
						\$	731,350	\$
						\$	-	\$
						\$	731,350	\$
						\$	1,500,000	\$
						\$	647,082	\$
						\$	250,000	\$
						\$	897,082	\$
						\$	1,100,000	\$
						\$	247,495	\$
						\$	50,000	\$
						\$	297,495	\$
						\$	2,600,000	\$
						\$	894,578	\$
						\$	300,000	\$
						\$	1,194,578	\$
						\$	53,000	\$
						\$	-	\$
						\$	-	\$
						\$	728,000	\$
						\$	48,594	\$
						\$	1,406	\$
						\$	50,000	\$
						\$	3,781,000	\$
						\$	1,674,522	\$
						\$	301,406	\$
						\$	1,975,928	\$

FY 21/ 22 Capital Improvement Project Program Cost Update: 06/21/22			E-Job	Recorded FY 20/21	Budget FY 21/22	<u>FY 21/22</u> Cost to date from 7/1/21 to 5/31/22	<u>FY 21/22</u> Cost Committed from 6/1/22 to 6/30/22	Projected FY 21/22
4. Water Treatment								
C. Disinfection - Convert to Chloramines								
<i>Conversion to Chloramination</i>			E-995	\$	54,073	\$ 75,000	\$ -	\$ -
WT Total				\$	54,073	\$ 75,000	\$ -	\$ -
5. Technology								
A. Automated Meter Information (AMI) System								
<i>AMI - Communication</i>			E-1020	\$	215,080			
<i>3" & 4" Smart Meters</i>			E-1031	\$	1,004	\$ 200,000	\$ 2,009	\$ 991
<i>AMI - 3/4" to 1" - Smart Meters</i>			E-1035	\$	71,693	\$ 233,000	\$ 10,411	\$ 1,589
<i>AMI - Customer Service Interface</i>			E-1035			\$ 87,000	\$ 45,860	\$ 1,140
<i>AMI - USBR Grant</i>			E-1041			\$ -	\$ 1,664	\$ -
B. Supervisory Control and Data Acquisition (SCADA) System								
<i>Communication Radio Network</i>			E-1025	\$	72,917	\$ 125,000	\$ 17,610	\$ -
<i>SCADA Replacement - Installation</i>			E-939	\$	105,977	\$ 374,000	\$ 248,668	\$ 71,632
TECH Total				\$	466,671	\$ 1,019,000	\$ 326,223	\$ 75,352
6. Public Safety/Emergency Response								
D. Miscellaneous								
<i>FEMA Local Hazard Mitigation Plan</i>			M-1004	\$	134,549	\$ 30,450	\$ 49,130	\$ -
SF/ER Total				\$	134,549	\$ 30,450	\$ 49,130	\$ -
7. Facilities & Planning								
D. Reservoir Site Improvements								
<i>Roof for Old Encinal - Storage Bldg</i>			E-1027	\$	3,956			
F & P Total				\$	3,956	\$ -	\$ -	\$ -
Capital Improvement Projects - Total				\$	3,453,712	\$ 5,657,350	\$ 2,681,868	\$ 512,140
								\$ 3,194,008