CRESCENTA VALLEY WATER DISTRICT

2700 Foothill Boulevard
La Crescenta, California

Agenda for the
Adjourned Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on Tuesday, February 25, 2020 at 7:00 p.m.

Posted: February 21, 2020 at 3:00 p.m.

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.

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 Minutes of the Regular Meeting on February 11, 2020.
2. Ratification of Disbursements for January 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. **Acceptance of Audited Financial Statements for Fiscal Year 2018-19** – Consideration and motion to accept the audited Financial Statements for Fiscal Year 2018-19.
2. **Second Quarter Budget Report** – Report of revenues and expenditures for the second quarter of Fiscal Year 2020.
3. **2020 Water & Wastewater Cost of Service Study Update** – Update on the study objectives and methodology and information for customer engagement and understanding.
4. **New Emergency Electrical Generator at the La Granada Wastewater Lift Station, Project S-962** – Consideration and motion to authorize the General Manager to amend the professional service agreement with Cannon Corporation for additional professional services related to the installation of a new emergency electrical generator at the La Granada wastewater lift station at a cost not to exceed $51,966 and to find said project exempt from the provisions of the California Environmental Quality act (CEQA).

Information Items

Written Communications to District/Board

General Manager's Report

Attorney's Report

Reports of Committees

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

Director's Oral Reports

Report on issues, meetings, or activities attended by Directors.

Closed Session

Conference with Labor Negotiators – District-designated representative: Nem Ochoa

Employee Organization: Employees' Association/AFSCME
Unrepresented employees: Management Unit

Action Item

5. **Discussion and possible action on employee positions and management unit compensation**

Board Members' Request for Future Agenda Items

Adjournment

g:\management\agenda\adjourn\19-20 adjourned agenda\022520aa.docx

CRESCENTA VALLEY WATER DISTRICT
REGULAR MEETING, BOARD OF DIRECTORS
February 11, 2020

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District, made at the Regular Adjourned Meeting on January 28, 2020 a Regular Meeting was held on February 11, 2020, at 7:00 p.m. at the District office at 2700 Foothill Blvd., La Crescenta, California, with President Kerry Erickson presiding.

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

Directors:	**James D. Bodnar** **Kerry D. Erickson** **Kenneth R. Putnam** **Sharon S. Raghavachary** **Judy L. Tejeda**
Attorney:	**Thomas Bunn**
General Manager:	**Nem Ochoa**
Director of Finance & Administration:	**James Lee**
Director of Engineering:	**David Gould**
Others Present:	**Mark Hass, Information Technology Manager** **Dennis Maxwell, Director of Operations** **Brook Yared, Senior Engineer** **Arturo Montes, Finance & Administration Manager** **Pam Leddy, Administrative Assistant** **Wendy Holloway, Customer Service Manager** **Christy Colby, Regulatory & Public Affairs Manager**

PLEDGE OF ALLEGIANCE

Director Erickson opened the meeting by requesting Director Putnam to lead the Directors and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Tejeda, seconded by Director Raghavachary and carried by a 5-0 vote that the Agenda for the Regular Adjourned Meeting of January 28, 2020 be adopted as presented.

PUBLIC COMMENTS – Ms. Marilyn Tyler opened discussion regarding the potential issuance of bonds.

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – No report

CONSENT CALENDAR

It was moved by Director Putnam, seconded by Director Tejeda , and carried by a 5-0 vote to approve the Minutes of the Special Board meeting held on January 24, 2020.

It was moved by Director Putnam, seconded by Director Tejeda , and carried by a 5-0 vote to approve the Minutes of the Regular Adjourned Board Meeting held on January 28, 2020.

ACTION CALENDAR

Notice to Proceed for Financial Advisory Services – Mr. Lee introduced Mr. John Phan of Urban Futures, Inc. and gave a brief overview of his background. Mr. Phan gave a presentation on the market update and bonding capacity for the District and the benefits of refinancing debt and bond financing for new capital improvement projects.

Following discussion:

It was moved by Director Raghavachary, seconded by Director Bodnar, and carried by a 5-0 vote to provide John Phan a notice to proceed to perform due diligence and assemble a financing team for potential bond financing services.

Resolution No. 757 – Water Reserve Funding Policy– Mr. Ochoa presented a matrix of water agency reserve policy comparisons. Mr. Lee provided proposed amendments to Article 21 of the District's Rules and Regulations pertaining to the District's Water Reserve Funding Policy. The proposed reserve policy outlined includes an Operating Reserve Fund, a Pipeline Reserve Fund, and a Capital Improvement Project (CIP) Reserve Fund to replace the MTBE-related language in Article 21.

Following discussion:

The Board directed staff to have further discussion through committee before adopting Resolution No. 757.

Outreach Plan for the Long-Term Infrastructure Reliability and Funding Roadmap – Ms. Colby outlined a list of opportunities to increase customer awareness, solicit customer feedback on the upcoming 2020/2021 fiscal year budget, and discuss the District's Long Term Infrastructure Reliability and Funding Roadmap. An invitation was given to the Board to add comments to or make suggestions on several handouts the District intends to distribute to the public at the notated events and through the website and other media platforms.

Final Paving on the 4600-4900 Blocks of Pennsylvania Ave., Project E-1009B – Mr. Gould requested the Board to authorize the General Manager to award a contract to the lowest responsible bidder, All American Asphalt, for the final grind and AC overlay on the 4600 & 4900 Blocks of Pennsylvania Ave. at a cost of $82,620 and establish a contingency amount of $8,260 (10 % of contract) to cover the cost of unforeseen or additional work.

Following discussion:

It was moved by Director Bodnar, seconded by Director Tejeda and carried by a 5-0 vote to authorize the General Manager to award a contract to the lowest responsible bidder, All American Asphalt, for final grind and AC pavement replacement between the 4600 to 4900 Blocks of Pennsylvania Ave. at

a cost of $82,620 and establish a contingency amount of $8262 (10% of contract) to cover the cost of unforeseen or additional work.

INFORMATION ITEMS – An article from the January 30, 2020 edition of Crescenta Valley Weekly regarding CVWD's water infrastructure.

WRITTEN COMMUNICATIONS TO DISTRICT – None

REPORTS OF PERSONNEL – None

GENERAL MANAGER – Mr. Gould reported that water production for the month of January 2020 was 87.9 million gallons, a 62/38 split between imported and produced water. The total rainfall for the month of January 2020 was 0.26", down from 8.9" in January 2019. He presented updated information on current CIP and developer and street projects. The water meter replacement program will resume next week, and a number of fire hydrants have been repaired by the CVWD crew.

ATTORNEY – No report

REPORTS OF COMMITTEES

Engineering Committee – David Gould reported that the Committee had met on January 30, 2020 at the CVWD Main Office. A meeting is scheduled on February 21, 2020 at 9:30 a.m.

Finance Committee – Mr. Lee reported that the Committee had met on January 30, 2020, at the CVWD Main Office. A meeting is scheduled on February 21, 2020 at 11:00 a.m.

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

Policy Committee – Director Erickson reported that the Committee had not met; however, a meeting is scheduled on February 21, 2020 at 1:00 p.m.

Community Relations/Water Conservation Committee – Director Tejeda reported that the Committee had met on January 30, 2020 at the CVWD Main Office.

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

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

<u>DIRECTORS'ORAL REPORTS</u>

Director Bodnar – Director Bodnar thanked the Staff for their help in providing materials for his presentation to the 6th grade class at Mountain Avenue Elementary School on Friday, February 7, 2020.

Director Raghavachary – No report

Director Tejeda – No report

Director Putnam – No report

Director Erickson – No report

<u>CLOSED SESSION</u> – It was moved by Director Bodnar, seconded by Director Raghavachary and carried by a 5-0 vote to approve the settlement with C&T Electrical Communications and California Building Evaluation and Construction.

<u>ADJOURNMENT</u>

There being no other business to come before the Board, at 8:56 p.m., it was moved by Director Tejeda, seconded by Director Raghavachary, and carried by a 5-0 vote that the meeting be adjourned to February 25, 2020 at 7:00 p.m.

<u>APPROVED</u>

Kerry D. Erickson President	James Lee Director of Finance & Administration

CASH DISBURSEMENTS LIST
JANUARY 2020

Check#	Check Date	Payable To	Description	Water Amount	Wastewater Amount
0	1/28/2020	Southern California Edison	Purchased power - January 2020	16,060.67	250.74
0	1/28/2020	CalPERS	Contributions - December 2019	24,785.31	14,506.51
0	1/14/2020	Los Angeles County Public Works	Excavation permits for various sites	3,300.00	
40464	1/3/2020	Maritess Allmon	Wellness program reimbursement	225.00	75.00
40465	1/3/2020	Alex Sandoval	20 years of service award	150.00	50.00
40466	1/6/2020	Wendy Holloway	Mileage reimbursement - September to December 2019	50.03	24.64
40467	1/6/2020	Dennis A. Maxwell, Jr	Glenwood plant - reimbursement for new stove	606.67	215.61
40468	1/6/2020	Jacob Whittaker	Education reimbursement	231.37	69.11
40469	1/14/2020	A to Z Home Repair, Inc.	2303 El Moreno - remove bees from meter box	125.00	
40470	1/14/2020	ACWA Joint Powers Ins Authority	Group health - January 2020	39,412.61	25,918.87
40471	1/14/2020	ADS, LLC	Monthly sewer monitoring - December 2019		1,100.00
40472	1/14/2020	Affordable Generator Services, Inc.	C-993 - progress payment to install emergency generator - main office	41,454.70	
40473	1/14/2020	Affordable Generator Services, Inc.	Unit #41 - major annual service & parts	6,272.81	
40474	1/14/2020	Airgas National Carbonation	Well #2 - carbon dioxide rental tank - December 2019	55.00	
40475	1/14/2020	Airgas USA, LLC	Cylinder rental for weld stop, safety supplies	438.52	311.98
40476	1/14/2020	Ajemco, Inc.	Glenwood - kitchen remodel	4,950.00	1,650.00
40477	1/14/2020	Akel Engineering Group Inc.	GIS and hydraulic model update - October/November 2019	18,634.00	
40478	1/14/2020	All American Landscape Co.	Office - landscape maintenance - January 2020	255.50	94.50
40479	1/14/2020	Allen Pipeline, Inc.	E-995 - install fire service, Hermosa & Sunset	12,196.43	
40480	1/14/2020	American Water Works, Inc.	Unit #3 - service: oil, fuel filter, oil filter, belts	445.17	272.84
40481	1/14/2020	Ameripride Uniform Services, Inc.	Uniform rentals - December 2019	649.57	194.02
40482	1/14/2020	Anawalt Lumber & Materials Co.	Misc. hardware - December 2019	17.91	3.85
40483	1/14/2020	Apex Manufacturing Solutions	E-995 - programming for new disinfection system - Glenwood & Mills	9,853.77	
40484	1/14/2020	ARC	Monthly MSP Billing - January 2020	581.31	193.77
40485	1/14/2020	Association of CA Water Agency	2020 annual membership dues	16,078.92	5,402.50
40486	1/14/2020	AT&T	Voice communication - January 2020	244.04	191.73
40487	1/14/2020	AT&T Mobility	Cell phone service - January 2020	1,950.44	582.60
40488	1/14/2020	Regino Avalos	Landscape maintenance - December 2019	1,578.08	461.92
40489	1/14/2020	BC Laboratories, Inc.	Water analysis (E-995 portion: $1530.00)	4,858.15	

40490	1/14/2020	BC Laboratories, Inc.	Water analysis (E-995 portion $1200.00)	1,385.25	
40491	1/14/2020	Blaine Tech Services	Quarterly MTBE sampling at monitoring wells	4,006.50	
40492	1/14/2020	Brik-Art	E-995 - install concrete pad - Pickens Canyon	11,320.00	
40493	1/14/2020	Cannon	E-956 - final project close out - November 2019	1,267.00	
40494	1/14/2020	Cargill, Inc. - Salt Division	Nitrate plant - 24 tons solar salt	5,459.91	
40495	1/14/2020	CCS Interactive, Inc.	Web redesign & monthly website hosting, forms, analytical report - Jan. 2020	1,753.33	
40496	1/14/2020	Neeras Chari	Refund check	86.48	
40497	1/14/2020	Citibank	Misc. supplies - December 2019	579.94	535.30
40498	1/14/2020	City of Glendale	Well lease & water purchase - October 2019	14,522.67	
40499	1/14/2020	Clark Pest Control, Inc.	Encinal Reservoir - monthly pest control service	152.35	12.65
40500	1/14/2020	Clifton Larson Allen	Progress billing - FY 2018/19 audit	940.00	1,060.00
40501	1/14/2020	Colonial Life & Accidents Ins.	Employee paid insurance - January 2020	228.67	
40502	1/14/2020	Contractor Compliance & Mont Inc.	E-956 - Labor compliance services - November 2019	480.00	
40503	1/14/2020	Core & Main	Meter couplings for stock	235.29	
40504	1/14/2020	Cortech Engineering	E-995 - metering pumps for sodium, adapters & monitors	7,684.43	
40505	1/14/2020	CV Strategies	E-956 - communication services - October 2019	1,948.75	
40506	1/14/2020	Dataprose LLC	Printing and postage for billing - December 2019	1,593.95	1,531.44
40507	1/14/2020	Do-it Center	Misc. hardware - December 2019	1,187.71	233.83
40508	1/14/2020	Duke's Root Control, Inc.	Interceptor line - 704' of root foaming		3,548.16
40509	1/14/2020	Dunn-Edwards Corporation	Misc. supplies	9.18	3.05
40510	1/14/2020	Eurofins Eaton Analytical Inc.	Water analysis - December 2019	606.00	
40511	1/14/2020	Foothill Car Wash, Lube & Oil	Unit #'s 44, 47, 49 - oil changes	141.35	147.57
40512	1/14/2020	Glendale Adventist Occ Med	Pre-employment physical - Jennifer Bautista/Jonathan Martinez (interns)	276.90	113.10
40513	1/14/2020	Golden Bell Products, Inc.	Sewer inceptor line - bacterial suspension matrix		832.20
40514	1/14/2020	Grace Environmental Services	Nitrate plant at Well #2 - monthly monitoring assistance - December 2019	4,130.75	
40515	1/14/2020	Grainger	Misc. supplies & equipment - January 2020	90.31	3.58
40516	1/14/2020	Great America Leasing Corp.	Kyocera copier rental - January 2020	898.75	863.50
40517	1/14/2020	Gsolutionz Professional Services	Voice communication - January 2020	247.03	194.08
40518	1/14/2020	Hamilton Tool & Engineering	Machine weld pipe fittings	1,102.50	
40519	1/14/2020	Harper & Associates Eng., Inc.	E-1006 - Markridge reservoir inspection services - November 2019	3,392.00	
40520	1/14/2020	Home Depot Credit Services	Misc. hardware - December 2019	189.60	63.20
40521	1/14/2020	J's Maintenance	Janitorial service - December 2019	1,006.58	321.42
40522	1/14/2020	J. Colon Coatings, Inc.	E-1006 Markridge Reservoir rehab - progress payment	47,856.25	
40523	1/14/2020	John Robinson Consulting, Inc.	E-995 - consulting services - November 2019	2,025.00	
40524	1/14/2020	LA County Tax Collector	Property taxes (2nd payment)	6,828.88	2,276.27
40525	1/14/2020	Lagerlof, Senecal, Gosney & Kruse	Legal services - November 2019	8,212.30	1,802.70
40526	1/14/2020	LANAIR Group, LLC	Infrastructure management agreement - January 2020	1,443.08	295.56
40527	1/14/2020	Simon Lee	Refund check	94.32	

40528	1/14/2020	Liebert Cassidy Whitmore	Legal services - November 2019	3,796.73	833.42
40529	1/14/2020	Liebert Cassidy Whitmore	Legal services - December 2019	2,697.39	592.11
40530	1/14/2020	Manhole Adjusting, Inc.	Manhole rehabilitation - adjust 22 manhole covers to grade		16,170.00
40531	1/14/2020	McCall's Meter Sales & Service	Replacement - 12" flow meter for Glendale interconnection	5,863.21	
40532	1/14/2020	Northern Tool & Equip Co.	Nitrate plant - compressor & maintenance kit	1,651.54	
40533	1/14/2020	O'Reilly Auto Parts	Misc. parts - December 2019	73.26	44.89
40534	1/14/2020	Office Depot - Credit Plan	Misc. supplies - December 2019	829.65	984.93
40535	1/14/2020	Paveco Construction Inc.	E-1009 - paving for pipeline replacement Pennsylvania Ave.	53,631.89	
40536	1/14/2020	Pep Boys, Fleet Services	Unit #27 - service, oil change, coolant & wipers	485.23	297.39
40537	1/14/2020	Quinn Power Systems	Unit #54 - misc. tools	66.26	40.60
40538	1/14/2020	Ramco	Bobtail concrete and crushed misc. base - December 2019	1,234.97	
40539	1/14/2020	Saf-T-Flo Water Services Corp.	E-995 - Pickens Canyon - 2 static mixers	6,997.84	
40540	1/14/2020	Sawyer Petroleum	Clear diesel - 381 gallons	1,320.63	351.05
40541	1/14/2020	David Schram	Refund check	63.68	
40542	1/14/2020	Scotty's Industrial Products	Misc. supplies	15.76	12.71
40543	1/14/2020	Serge's Automotive	Unit #43 - fuel pump, battery and oil change	719.75	441.13
40544	1/14/2020	Fernando Sibulo	Refund check	7.38	
40545	1/14/2020	So. Cal Compton Pipe Supply Co., Inc.	6 fire hydrants for stock	9,940.67	
40546	1/14/2020	Southland Pipe Corp.	E-1002 - 4400 block of Cloud - steel pipe for Cloud preschool	8,543.20	
40547	1/14/2020	Spectrum Business	Mills Plant - data communications - January 2020	336.65	118.26
40548	1/14/2020	Spectrum Business	Office - data communications - January 2020	2,113.39	743.24
40549	1/14/2020	Spectrum Business	Plant - data communications - January 2020	2,195.63	771.43
40550	1/14/2020	State Water Resource Control Board	Annual connection Fees - July 1, 2019 to June 30, 2020	28,602.20	
40551	1/14/2020	State Water Resource Control Board	James Halaszynski - certification renewal for Grade T2	60.00	
40552	1/14/2020	State Water Resource Control Board	James Halaszynski - certification renewal for Grade D3	140.00	55.17
40553	1/14/2020	Staples Business Advantage	USA & CA flags	59.77	
40554	1/14/2020	Sully-Miller Contracting Co.	Cold mix for temporary repairs - 8 tons	665.76	131.00
40555	1/14/2020	The Gas Company	Plant - gas purchased	414.87	
40556	1/14/2020	Toro's Lawnmower & Garden	Unit #32B & C - maintenance & repairs		352.88
40557	1/14/2020	Univar USA, Inc.	Sodium hypochloride - 840 gallons	1,923.60	
40558	1/14/2020	Vision Service Plan	Group vision - January 2020	278.46	185.64
40559	1/14/2020	Waste Management - Sun Valley	Plant - disposal service - January 2020	1,010.75	319.17
40560	1/14/2020	WQTS	E-995 - consulting services - December 2019	50,909.51	
40561	1/14/2020	Western Water Works	Meter boxes, slip on weld flanges & brass supplies for stock	1,620.36	
40562	1/14/2020	Jacob Whittaker	Safety boots	325.82	116.17
40563	1/14/2020	James Woodward	Refund check	93.44	
40564	1/17/2020	Mark Hass	Health reimbursement	392.16	261.44
40565	1/17/2020	Ron Mitchell	Health reimbursement	264.30	176.20

40567	1/28/2020	Affordable Generator Services, Inc.	C-993 - final payment to install emergency generator - main office	5,460.41	1,100.00
40568	1/28/2020	Aflac	Employee paid insurance - January 2020	1,620.37	
40569	1/28/2020	Allen Pipeline, Inc.	E-976 welding for vault & new fire hydrant install at 2712 Harmony	1,742.40	
40570	1/28/2020	American Water Works, Inc.	Misc. tools	53.41	55.59
40571	1/28/2020	Ansell Health Care Products, LLC	Sewer crew - safety gloves (bulk)		923.79
40572	1/28/2020	Aqua Solutions, Inc.	Well #2 - purification kit & carbon filters	1,161.19	
40573	1/28/2020	BC Laboratories, Inc.	Water analysis - December 2019	3,387.00	
40574	1/28/2020	BC Laboratories, Inc.	Water analysis - December 2019	4,103.90	
40575	1/28/2020	Bronson Photography	Director Raghavachary - 8 x 10 print	64.92	18.30
40576	1/28/2020	Bryan's Prompt Plumbing	3935 Pennsylvania (rental) - replace garbage disposal and clean drain	318.25	156.75
40577	1/28/2020	California Water Environment	Morgen DuRose - membership renewal	144.00	48.00
40578	1/28/2020	Cerdant, Inc.	Network security services - January 2020	209.00	66.00
40579	1/28/2020	City of Los Angeles Sanitation	Sewer facilities charge - Nov/Dec 2019		6,466.88
40580	1/28/2020	City of Los Angeles	Capital and O&M installment payment for sewer treatment		197,311.00
40581	1/28/2020	Cues, Inc.	Unit #33 - annual Granitexp software support plan renewal		1,800.00
40582	1/28/2020	Cypress Ancillary Benefits	Group dental - February 2020	2,259.42	1,519.62
40583	1/28/2020	Direct Connection	Business cards for 9 employees	123.46	118.62
40584	1/28/2020	EmbroidMe	David Rawlings & Alex Sandoval - t shirts	302.64	90.40
40585	1/28/2020	Federal Express	Misc. shipping charges - December 2019	13.10	12.58
40586	1/28/2020	Foothill Municipal Water	Imported water purchased - Dec. 2019	190,111.55	
40587	1/28/2020	Grainger	Misc. supplies - January 2020	64.72	59.75
40588	1/28/2020	Joseph A. Huerta	Mileage - September to December 2019	5.99	0.39
40589	1/28/2020	Industrial Metal Supply Co	E-976 Pickens Canyon - diamond plate lid cover for actuator	468.81	
40590	1/28/2020	L.A. Dept. Water and Power	Power purchased - January 2020	54.73	
40591	1/28/2020	Lagerlof, Senecal, Gosney & Kruse	Legal Services - December 2019	11,922.80	2,617.20
40592	1/28/2020	Liebert Cassidy Whitmore	Legal services - December 2019	3,379.39	741.81
40593	1/28/2020	Logan Supply Co., Inc.	Misc. paint supplies - December 2019	174.93	161.49
40594	1/28/2020	Matt-Chlor Inc.	Mills & Glenwood - chlorine treatment	1,657.54	
40595	1/28/2020	Mimecast North America, Inc.	Email security - January 2020	708.34	
40596	1/28/2020	Monterey Tow Service	Henrietta/Parham main repair - remove parked car	80.00	
40597	1/28/2020	Newegg, Inc.	Upgrade wireless access points	671.83	212.15
40598	1/28/2020	Northern Tool & Equip Co.	Pneumatic pavement breaker	751.90	460.84
40599	1/28/2020	Paper Cuts, Inc.	Paper shredding - December 2019	27.93	25.82
40600	1/28/2020	Parkhouse Tire, Inc.	Unit #16 - repair tire install new valve stem	115.22	70.62
40601	1/28/2020	Pep Boys, Fleet Services	Unit #8 - new brakes	1,450.09	888.75
40602	1/28/2020	Rassac Air Systems	Plant - repairs to heating system	654.29	218.09
40603	1/28/2020	Red Wing Shoe Store	Wayne Boyce safety boots	146.36	59.78
40604	1/28/2020	Reliable Road Service, Inc.	Unit #18 - replaced lift cylinder & hydraulic oil	1,522.92	933.39

40606	1/28/2020	Royal Industrial Solutions	E-995 Pickens - electrical equipment	3,106.39	
40607	1/28/2020	Serge's Automotive	Unit #43 - coolant leak and rear brakes	772.11	473.23
40608	1/28/2020	Shell	Gas purchased - December 2019 thru January 2020	1,653.12	493.79
40609	1/28/2020	Simpler Systems	Monthly maintenance - January 2020	500.00	
40610	1/28/2020	Spectrum Business	Glenwood - data communications January 2020	307.54	108.05
40611	1/28/2020	Steven Engineering Inc.	E-995 Pickens and Ordunio/well #2 - radio com. Equipment	761.37	
40612	1/28/2020	The Gas Company	Office - gas purchased - January 2020	220.81	69.73
40613	1/28/2020	Toro's Lawnmower & Garden	Misc. repairs & parts - December 2019	159.85	114.11
40614	1/28/2020	Traffic Management Products, Inc.	Sewer crew - 24 safety cones		381.68
40615	1/28/2020	Underground Service Alert	Underground notifications - December 2019	242.74	114.21
40617	1/28/2020	Wells Fargo Card Services	Hass - monthly recurring software, cell phone supplies, computer hardware	1,351.79	161.29
40618	1/28/2020	Wells Fargo Card Services	Lee - background check fee for interns	3.55	1.45
40619	1/28/2020	Wells Fargo Card Services	Maxwell - sand bags, smog tests for 6 units, workign and networking lunches	1,609.92	524.15
40620	1/28/2020	Wells Fargo Card Services	Ochoa - working lunches	47.06	23.17
40621	1/28/2020	Wells Fargo Card Services	Colby - reimbursement for instacart	9.99	
40622	1/28/2020	Western Water Works	E-995 -f ittings,tees, elbows - Nitrate plant -butterfly valves - misc. items for stock	5,694.52	
40623	1/28/2020	Wells Fargo Card Services	Gould - CWEA water reuse workshop 2020	105.44	32.27
40624	1/31/2020	County Clerk of Los Angeles	E-1011 - CEQA notice for Well #16 project	75.00	
			Subtotals	$ 766,840.04	$ 307,733.63
			Total Disbursements for January 2020		$ 1,074,573.67

Payroll Report

Directors	$ 1,980.00
Office Regular Payroll	$ 142,501.00
Office OT	$ 279.00
Plant Regular Payroll	$ 92,685.00
Plant OT & Standby	$ 11,668.00
Employer Payroll Taxes	$ 21,179.00
Payroll Service Charges	$ 596.00
Total Payroll for January 2019	$ 270,888.00

CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1
February 25, 2020

To: Honorable President and Members of the Board of Directors

From: Nem Ochoa – General Manager

Subject: **Acceptance of Audited Financial Statements**

ACTION ITEM:

1. **Acceptance of Audited Financial Statements for Fiscal Year 2018-19** – Consideration and motion to accept the Audited Financial Statements for Fiscal Year 2018-19.

BACKGROUND:

Audited financial statements serve to ensure that the District's financial position is accurately stated and that the District's internal controls are working so that funds are managed appropriately. Additionally, they are required for disclosure to the District's creditors. Clifton Larson Allen (CLA) is the District's auditor. They and staff met with the Finance Committee on February 21, 2020 to review the audited financial statements for FY 2018-19.

The highest set of opinions an auditor can confer is: 1) there are no major weaknesses found in the District's internal controls; and 2) the financial statements present fairly, in all material aspects, the financial position of the District. CLA shared these opinions with the Committee in addition to the process used to perform the audit.

The Board and staff take the appropriate management of funds seriously. For at least the last five years, through two different audit firms, the District's financials have been reported by the auditors as presenting fairly, in all material respects, the financial position of the District. That said, no agency's financial system is perfect, and staff is always trying to improve its ability to segregate duties and implement system approvals utilizing its staff and budget available.

Staff has provided a copy of the final draft of the report for review and approval. Ms. Renee Graves and Ms. Daphne Liu of CLA will make a short presentation and will be available as a resource related to the statements.

RECOMMENDATION

Staff recommends that the Board accept the Audited Financial Statements for Fiscal Year 2018-19.

Prepared by:	Submitted by:
James Lee	Nem Ochoa
Director of Finance & Administration	General Manager

Attachment(s): 1) Audited Financial Statements for Fiscal Year 2018-19

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
February 25, 2020

To: Honorable President and Members of the Board of Directors

From: Nem Ochoa – General Manager

Subject: **Second Quarter Report on Revenues and Expenditures**

ACTION ITEM:

Discuss the District's Second Quarter Report on revenues and expenditures for the fiscal year ended June 30, 2020.

DISCUSSION:

The 2nd quarter, or halfway mark of the fiscal year, is complete. Department-level budgets continue to increase accountability and communication across departments. The Qtr2 report adds a management estimate section that is intended to provide additional context to the actual revenue and expenditures figures.

WATER FUND

Qtr2 estimates show strong irrigation sales and anticipated development activity and grant revenue, and total revenues are expected to be just under budget by 1.2%. Water sales continue to lag, but there is opportunity for accelerated sales in the spring on the heels of a relatively dry winter.

Well 16 continues to be offline, increasing the need for FMWD purchases.

CIP was budgeted for $2.88 million. Engineering projects that CIP for water distribution and water supply will run over budget due to change orders. Engineering expects that CIP for technology will come in under budget, for a net CIP impact of $99K over budget. Operations staff agreed to repurpose one of its vehicles to reduce fleet-related capital outlays and permit a budget transfer to address CIP.

The water budget as approved draws $730K from reserve funds over the year. The budget is currently projected to run over by $150K, making the net impact a $885K total draw on the water reserve fund by fiscal year-end. Any increase in water sales could improve that forecast significantly.

The following are notable over/under variances for each department's budget:

- Dept 1 – Board
  - Director expenses are in line with expectations

- Dept 2 – Operations
  - The Operations department expenses as a whole are in line with expectations, with some accounts coming in slightly over and others slightly under budget.
  - The Building Maintenance account is almost completely exhausted at the 2nd quarter because of painting and fascia restoration done to the building, as well as other necessary repairs. Other planned repairs will be deferred to next year.
  - Uniform expense has gone up, and staff is working to find a substitute vendor with a more affordable option before the end of the fiscal year.

- Staff continues to diminish the need for trench plate rentals which is projected to produce savings of $7K.
- Radio communication issues, which had generated OT hours and gas usage in Qtr1 have been remediated in Qtr2, reducing these costs.

➢ <u>Dept 3 – Engineering</u>
- The Assistant Engineer continues to be out on medical leave, and interns continue to fill capacity at a combined cost that is less than the compensation that is not paid out during the Assistant Engineer's absence.

➢ <u>Dept 4 – Regulatory & Public Affairs</u>
- Regulatory expenses are currently well under budget. The department has shared its investment in an extensive outreach plan, and these expenses are anticipated to increase through the remainder of the year.
- Overages from the above are expected to be offset from cost savings of approximately $35K resulting from moving lab sampling from a monthly basis to a quarterly basis.

➢ <u>Dept 5 – Technology</u>
- The Computers and Networks expense is projected to be on target with budget, department will only replace critical devices.
- The expenses for Training and Conferences/Seminars are lower than budgeted based on staff not having availability to attend.
- The Technology department is synchronizing reduction of services in Enterprise Voice Communications and increasing services in Wireless Voice & Data for a net cost savings of $3K.

➢ <u>Dept 6 – Administration</u>
- A significant portion of the Building Maintenance budget was used to paint the Mills House. A non-budgeted expense, it was a proactive measure to comply with code enforcement.
- Labor overtime is higher than budgeted based on the additional training hours needed for the Administrative Analyst to transition into an updated role per the recently updated organizational chart.
- Liability Insurance and Legal expense are expected to increase significantly to appropriately account for pending personnel issues.

WASTEWATER FUND

The revenues and expenses for the wastewater fund are on track with the budget. Wastewater charges are static through the year and are more predictable than water. We project that revenues should stay the same or increase when the variable wastewater use is adjusted for the most recent winter water use.

The wastewater budget as approved draws $699K from reserve funds over the year. The budget is currently projected to run under by $52K, making the net impact a $647K total draw on the wastewater reserve fund by fiscal year-end.

The following are Notable over/under variances by department.

- Dept 2 – Operations
    - Pipeline Maintenance is expected to be under budget by approximately $18K.
    - Auto/Truck Maintenance will also come in under budget by $10K
    - The Lift Station required $12K in unforeseen maintenance causing that account to go over budget by $10K. We would like to move the excess pipeline maintenance budget to the Lift Station
    - The Sewer Interceptor Line required unplanned roach spraying and root foaming causing the Interceptor Maintenance expense to go over budget by $8K. We would like to make an $8k budget transfer from the excess Auto Truck Maintenance to the Interceptor Line Maintenance.

Prepared by:

James Lee
Director of Finance & Administration

Submitted by:

Nem Ochoa
General Manager

Attachment(s):
1. Second Quarter Budget Report

g:\management\board meeting staff reports\2020\02-25-20 board memo - Second Quarter Budget Report.docx

SUMMARY

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

Q2

Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
	2nd Quarter Actuals				Management Estimate		
Revenue							
Water Sales - Fixed	$ 3,023,931	$ 1,519,397	$ 1,504,534	50%	$ 3,038,100	$ (14,169)	100%
Water Sales - Metered	9,141,201	4,743,562	4,397,639	52%	8,719,166	422,035	95%
Interest Income Water	200,000	90,000	85,000	45%	180,000	20,000	90%
Other Income Water	160,000	72,028	128,229	45%	139,280	20,720	87%
Construction Revenue	452,500	117,776	334,724	26%	742,000	(289,500)	164%
Revenue	**$ 12,977,632**	**$ 6,542,762**	**$ 6,450,126**	**50%**	**$ 12,818,546**	**$ 159,086**	**99%**
Expenses							
Labor & Benefits	3,376,264	1,590,515	1,785,749	47%	3,175,328	200,936	94%
Imported Water (Foothill)	3,332,018	1,751,092	1,580,926	53%	3,500,000	(167,982)	105%
Imported Water (Glendale)	157,850	21,511	136,339	14%	60,980	96,870	39%
Power Cost	695,671	417,979	277,692	60%	836,000	(140,329)	120%
Operating Cost	2,315,039	1,082,335	1,232,704	47%	2,317,457	(2,418)	100%
Expenses	**$ 9,876,842**	**$ 4,863,432**	**$ 5,013,410**	**49%**	**$ 9,889,765**	**$ (12,923)**	**100%**
Debt Service	**$ 550,000**	**$ 275,000**	**$ 275,000**	**50%**	**$ 550,000**	**$ -**	**100%**
CIP	2,877,500	1,334,130	1,543,370	**46%**	3,000,000	(122,500)	104%
Infastructure	308,370	97,356	211,014	**32%**	164,000	144,370	53%
OPEB	100,000		100,000	**0%**	100,000	-	100%
Total CIP, Infastructure, OPEB	**3,285,870**	**1,431,486**	**1,854,384**	**44%**	**$ 3,264,000**	**$ 21,870**	**99%**
Net Revenue minus Expenses	**(735,080)**	**(27,155)**			**(885,219)**		

REVENUE

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

Q2

Description		Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Revenue								
4010-000	Water Sales - Consumers	$ 8,752,663	$ 4,391,437	$ 4,361,226	50%	$ 8,132,291	$ 620,372	93%
4010-007	Irrigation	388,538	352,125	36,413	91%	586,875	(198,337)	151%
4010-008	Water Sales- Service Charge	2,945,771	1,480,350	1,465,422	50%	2,960,000	$ (14,229)	100%
4010-009	Water Sales - Fire Service	78,160	39,047	39,113	50%	78,100	60	100%
4020-000	Water Sales - Others	90,000	40,993	49,007	46%	80,000	$ 10,000	89%
4110-000	Meter Installation/Hydrant	50,000	-	50,000	0%	50,000	-	100%
4220-000	Water Systems Connect Fee	100,000	27,776	72,224	28%	125,000	$ (25,000)	125%
4230-000	Other Income - Misc	10,000	3,995	6,005	40%	8,000	2,000	80%
4230-010	Other Income - Flood Meters	-	-	-	0%	-	$ -	0%
4230-020	Other Income - Applications	35,000	11,610	23,390	33%	22,000	13,000	63%
4240-000	Interest Earned - Water	175,000	90,000	85,000	51%	180,000	$ (5,000)	103%
4245-000	Interest Earned-2007 COPS	-	-	-	0%	-	-	0%
4260-000	Unrealized Gain/Loss on Invest	-	-	-	0%	-	$ -	0%
4265-000	Fair Value Adjustment	-	-	-	0%	-	-	0%
4270-000	Gain/Loss on Sale of Assets	2,500	-	2,500	0%	-	$ 2,500	0%
4271-000	Gain/Loss Sale of Investments	25,000	-	25,000	0%	-	25,000	0%
4275-001	Rental Income - PA House	11,000	6,380	4,620	58%	11,280	$ (280)	103%
4275-002	Rental Income - Sycamore House	14,000	9,050	4,950	65%	18,000	(4,000)	129%
4280-000	MTBE Settlement	-	100	(100)	0%	200	$ (200)	0%
4285-000	Grant Revenue - State	300,000	90,000	210,000	30%	567,000	(267,000)	189%
4287-000	Capital Contributions - Local	-	-	-	0%	-	$ -	0%
Revenue		**$ 12,977,632**	**$ 6,542,862**	**$ 6,434,770**	**50%**	**$ 12,818,746**	**$ 158,886**	**99%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

			2nd Quarter Actuals			Management Estimate		
	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Compensation and Benefits								
5000-100	Director Fees	$ 9,000	$ 3,105	$ 5,895	35%	$ 6,210	$ 2,790	69%
5000-200	Officer Salaries	175,515	86,541	88,974	49%	173,000	$ 2,515	99%
5000-300	Administrative Service - Labor	617,590	291,860	325,730	47%	571,700	$ 45,890	93%
5000-310	Administrative Service - OT	5,000	5,033	(33)	101%	9,960	$ (4,960)	199%
5000-350	Engineering Labor	352,170	134,076	218,094	38%	270,000	$ 82,170	77%
5000-360	Engineering Labor OT	3,300	2,661	639	81%	4,000	$ (700)	121%
5000-400	Maintenance Labor	452,983	191,086	261,897	42%	416,000	$ 36,983	92%
5000-410	Maintenance Labor OT	47,250	20,603	26,647	44%	42,000	$ 5,250	89%
5000-500	System Operations	347,661	168,495	179,166	48%	340,000	$ 7,661	98%
5000-510	System Operations OT	16,000	11,542	4,458	72%	18,000	$ (2,000)	113%
5000-800	Standby Pay	47,852	25,667	22,185	54%	51,000	$ (3,148)	107%
5045-000	Automobile Allowance	11,700	7,663	4,037	65%	15,350	$ (3,650)	131%
5047-000	Phone Allowance	-	126	(126)	0%	252	$ (252)	0%
5050-000	Employer Portion of PERS	436,200	190,172	246,028	44%	380,350	$ 55,850	87%
5052-000	GASB 68 Adjustment - Water	-	-	-	0%	-	$ -	0%
5052-001	GASB 75 Adjustment	-	-	-	0%	-	$ -	0%
5060-000	Taxes-Payroll	146,669	82,022	64,648	56%	168,810	$ (22,141)	115%
5070-000	Sick Leave/Vacation-Office	192,847	129,532	63,315	67%	224,402	$ (31,555)	116%
5080-000	Health Dental Vision	332,486	185,055	147,431	56%	371,623	$ (39,137)	112%
5080-055	Retiree Health Care Expense	-	-	-	0%	-	$ -	0%
5080-100	Retiree Health Care Expense	108,000	23,540	84,460	22%	47,000	$ 61,000	44%
5082-000	Life and Disability Insurance	11,816	5,680	6,136	48%	8,700	$ 3,116	74%
5083-000	Self Insurance	14,850	6,361	8,489	43%	16,900	$ (2,050)	114%
5084-000	Wellness Program	-	2,221	(2,221)	0%	5,025	$ (5,025)	0%
5085-000	Workers' Compensation Ins	47,375	17,476	29,899	37%	35,046	$ 12,329	74%
Compensation and Benefits		**$ 3,376,264**	**$ 1,590,515**	**$ 1,785,749**	**47%**	**$ 3,175,328**	**$ 200,936**	**94%**

EXPENSE

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

Q2

	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Gen'l and Admin Expenses								
5090-000	GL, Property, Fidelity Ins	$ 61,200	$ 28,347	$ 32,853	46%	57,000	$ 4,200	93%
5100-000	Accounting	6,750	5,311	1,439	79%	6,000	$ 750	89%
5125-000	Legal	90,000	72,598	17,402	81%	140,000	$ (50,000)	156%
5130-000	Administrative Consultants	186,658	32,536	154,122	17%	146,000	$ 40,658	78%
5135-000	Interns	5,000	1,044	3,956	21%	20,000	$ (15,000)	400%
5140-000	Election Expense	-	-	-	0%	-	$ -	0%
5150-000	Building Maintenance-Office	39,645	35,976	3,669	91%	40,000	$ (355)	101%
5160-000	Furniture & Fixtures Expense	-	-	-	0%	-	$ -	0%
5170-000	Landscaping Expense	16,197	4,502	11,695	28%	9,000	$ 7,197	56%
5180-000	Office Supplies & Misc Expense	15,887	7,641	8,246	48%	15,850	$ 37	100%
5190-000	Computers and Network	27,000	15,170	11,830	56%	27,000	$ -	100%
5195-000	Computer Software	50,400	30,700	19,700	61%	50,400	$ -	100%
5200-000	Utilities	38,276	19,670	18,606	51%	39,400	$ (1,124)	103%
5225-000	Enterprise Voice Com	17,073	3,388	13,685	20%	7,000	$ 10,073	41%
5226-000	Wireless Voice & Data	15,724	10,938	4,786	70%	22,000	$ (6,276)	140%
5227-000	Data Communications - Fiber	47,340	28,213	19,127	60%	56,000	$ (8,660)	118%
5230-000	Printing Postage Stationery	36,000	20,496	15,504	57%	41,000	$ (5,000)	114%
5240-000	Uncollectible Accounts	4,302	-	4,302	0%	-	$ 4,302	0%
5250-000	Water System Fees	60,000	43,252	16,748	72%	60,000	$ -	100%
5260-000	Engineering Expense	9,769	5,017	4,752	51%	10,500	$ (731)	107%
5300-000	Training-Office	19,852	7,948	11,904	40%	17,500	$ 2,352	88%
5320-000	Conferences & Seminars	14,616	7,350	7,266	50%	14,294	$ 322	98%
5320-005	Conferences & Seminars-Board	-	-	-	0%	-	$ -	0%
5350-000	Misc Administration	5,759	3,449	2,310	60%	6,183	$ (424)	107%
5350-005	Misc Administration-Board	-	-	-	0%	-	$ -	0%
5355-000	Memberships/Subscriptions	25,410	19,147	6,263	75%	26,049	$ (639)	103%
5365-000	Bank Charges	33,000	17,251	15,749	52%	34,500	$ (1,500)	105%
5135-000	Interns	5,000	1,044	3,956	21%	20,000	$ (15,000)	400%
5270-000	Water Conservation Expense	25,500	5,046	20,454	20%	17,000	$ 8,500	67%
5270-400	Water Conservation Rebates	5,000	50	4,950	1%	5,000	$ -	100%
5270-600	Community Outreach	20,000	2,130	17,870	11%	19,000	$ 1,000	95%
Gen'l and Admin Expenses		**$ 881,358**	**$ 428,215**	**$ 453,143**	**49%**	**$ 906,676**	**$ (25,318)**	**103%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

Description		Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Depreciation								
5800-000	Depreciation - Office	$ -	$ 16,803	$ (16,803)	0%	33,600	$ (33,600)	0%
5805-000	Depreciation-Pumping	-	248,049	(248,049)	0%	496,100	$ (496,100)	0%
5810-000	Depreciation-Distribution	-	369,681	(369,681)	0%	739,400	$ (739,400)	0%
5815-000	Depreciation-Nitrate Plant	-	10,103	(10,103)	0%	20,200	$ (20,200)	0%
5820-000	Depreciation-Collection System	-	-	-	0%	-	$ -	0%
Depreciation		**$ -**	**$ 644,636**	**$ (644,636)**	**0%**	**$ 1,289,300**	**$ (1,289,300)**	**0%**
Non-Operating Expense								
5900-000	Amortization of Intangibles	-	-	-	0%	-	$ -	0%
5900-001	Amortization of Inv Premium	-	-	-	0%	-	$ -	0%
5900-002	Loan Costs	-	-	-	0%	-	$ -	0%
5910-000	Interest Expense - Notes	-	-	-	0%	-	$ -	0%
5920-100	Rental Expenses - PA House	857	-	857	0%	800	$ 57	93%
5920-200	Rental Expenses - Sycamore	1,385	-	1,385	0%	1,000	$ 385	72%
Non-Operating Expense		**$ 2,242**	**$ -**	**$ 2,242**	**0%**	**$ 1,800**	**$ 442**	**80%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Operations Expense								
5145-000	Taxes-Property	$ 18,000	$ 6,829	$ 11,171	38%	14,000	$ 4,000	78%
5310-000	Operator Certifications-Educ	3,600	1,639	1,961	46%	3,300	$ 300	92%
5330-000	Safety & Security	20,553	9,448	11,105	46%	19,000	$ 1,553	92%
5340-000	Uniforms	11,836	7,821	4,015	66%	15,000	$ (3,164)	127%
5360-000	Emergency Operations/Repairs	12,000	6,000	6,000	50%	12,000	$ -	100%
5370-000	Permit & Assessment Fees	3,000	-	3,000	0%	3,000	$ -	100%
5380-000	Tools and Eq Maintenance	15,484	9,764	5,720	63%	15,500	$ (16)	100%
5390-000	Nitrate Plant	82,500	29,933	52,567	36%	82,000	$ 500	99%
5441-000	Inventory Shrinkage/Overage	-	16,871	(16,871)	0%	20,000	$ (20,000)	0%
5442-000	Inventory Disposal	-	41	(41)	0%	41	$ (41)	0%
5445-000	Telemetering & Signal System	-	(0)	0	0%	-	$ -	0%
5460-000	Water Treatment Expense	102,000	52,450	49,550	51%	105,000	$ (3,000)	103%
5450-100	Lab & Sampling Expense	125,000	39,662	85,338	32%	90,000	$ 35,000	72%
5450-200	Non-Lab & Sampling	74,004	-	74,004	0%	74,000	$ 4	100%
5445-100	Telemetering & Signal System	21,791	18,046	3,745	83%	22,000	$ (209)	101%
5445-200	SCADA Hardware	9,000	156	8,844	2%	4,500	$ 4,500	50%
5445-300	SCADA Software	23,550	12,740	10,811	54%	20,000	$ 3,550	85%
5445-400	SCADA Phone Lines	1,355	-	1,355	0%	-	$ 1,355	0%
5402-000	Power Purchased - Pumping	695,671	417,979	277,692	60%	836,000	$ (140,329)	120%
Operations Expense		**$ 1,219,344**	**$ 629,377**	**$ 589,967**	**52%**	**$ 1,335,341**	**$ (115,997)**	**110%**
Water System Expense								
5400-000	Water Usage Cost Exp Well 16	$ 157,850	$ 21,511	$ 136,339	14%	60,980	$ 96,870	39%
5401-000	Purchased Water FMWD	3,332,018	1,751,092	1,580,926	53%	3,500,000	$ (167,982)	105%
5401-002	Purchased Water Glend Welll 16	-	-	-	0%	-	$ -	0%
Water System Expense		**$ 3,489,868**	**$ 1,772,603**	**$ 1,717,265**	**51%**	**$ 3,560,980**	**$ (71,112)**	**102%**

EXPENSE

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

Q2

	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Distribution System Expense								
5410-000	Backflow Expense	$ 700	$ 111	$ 589	16%	400	$ 300	57%
5423-100	Pipelines - Maintenance	43,569	16,082	27,487	37%	33,000	$ 10,569	76%
5423-300	Fire Hydrant Repair/Replace	12,000	1,689	10,311	14%	10,000	$ 2,000	83%
5423-500	Pipelines-Trench Plate Rentals	2,000	-	2,000	0%	-	$ 2,000	0%
5423-700	Pipelines - Valves	6,000	722	5,278	12%	2,000	$ 4,000	33%
5424-100	Reservoir Maintenance	76,967	39,371	37,596	51%	85,000	$ (8,033)	110%
5424-200	Reservoir Landscape	20,000	9,303	10,698	47%	21,000	$ (1,000)	105%
5425-100	Meter Maintenance	86,451	34,480	51,971	40%	100,000	$ (13,549)	116%
5425-300	Meter Repair/Replace/Upgrade	10,000	6,766	3,234	68%	13,500	$ (3,500)	135%
5425-400	Lateral Leaks and Repairs	85,000	43,516	41,484	51%	87,000	$ (2,000)	102%
5425-500	Meters - Trench Plate Rentals	5,000	-	5,000	0%	-	$ 5,000	0%
5431-000	Land Lease Cost Expense Well1(	16,000	8,220	7,780	51%	16,440	$ (440)	103%
5432-100	Well Site - Maintenance	50,000	36,804	13,196	74%	62,000	$ (12,000)	124%
5432-200	Well Site - Landscape	7,000	3,498	3,502	50%	7,000	$ -	100%
5433-000	Booster Pumps - Maintenance	72,000	9,485	62,515	13%	15,000	$ 57,000	21%
5434-000	Emergency Power Generators	22,500	12,119	10,381	54%	24,000	$ (1,500)	107%
5440-100	Auto/Truck Maintenance	60,914	22,948	37,966	38%	60,000	$ 914	98%
5440-200	Auto/Truck Maintenance-Gas	21,332	12,133	9,199	57%	24,000	$ (2,668)	113%
5440-300	Auto/Truck Maintenance-Diesel	21,537	10,067	11,470	47%	20,000	$ 1,537	93%
5423-200	Pipelines - Paving	15,500	16,520	(1,020)	107%	20,000	$ (4,500)	129%
5423-400	Pipelines - Leak Detect/Repair	28,000	1,148	26,852	4%	5,000	$ 23,000	18%
5425-200	Meters - Paving	205,000	51,796	153,204	25%	104,000	$ 101,000	51%
5425-700	D-Job Meters/Hydrants	39,996	105,645	(65,649)	264%	200,000	$ (160,004)	500%
5432-300	Well Site - Lease Payment	300	300	-	100%	300	$ -	100%
Distribution System Expense		**$ 907,766**	**$ 442,721**	**$ 465,045**	**49%**	**$ 909,640**	**$ (1,874)**	**100%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Year End Expense	Budget Balance	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Compensation and Benefits								
01-01-5000-100	Director Fees	9,000.00	3,105	5,895.00	35%	$ 6,210	$ 2,790	69%
01-01-5060-000	Taxes-Payroll	-	234	(233.92)	0%	468	(468)	0%
01-01-5085-000	Workers' Compensation Ins	-	23	(23.02)	0%	46	(46)	0%
Compensation and Benefits		**9,000.00**	**3,361.94**	**5,638.06**	**37%**	6,724	2,276	75%
Gen'l and Admin Expenses								
01-01-5320-000	Conferences & Seminars	2,712.00	1,615	1,097.18	60%	$ 3,230	$ (518)	119%
01-01-5350-000	Misc Administration	2,264.00	1,342	922.48	59%	2,683	(419)	119%
Gen'l and Admin Expenses		**4,976.00**	**2,956.34**	**2,019.66**	**59%**	5,913	(937)	119%

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
			2nd Quarter Actuals			Management Estimate		
Compensation and Benefits								
01-02-5000-300	Administrative Service - Labor	$ 269,609	$ 89,963	$ 179,646	33%	$ 200,000	$ 69,609	74%
01-02-5000-310	Administrative Service - OT	500	303	197	61%	500	-	100%
01-02-5000-400	Maintenance Labor	452,983	191,086	261,897	42%	416,000	36,983	92%
01-02-5000-410	Maintenance Labor OT	47,250	20,603	26,647	44%	42,000	5,250	89%
01-02-5000-500	System Operations	347,661	168,495	179,166	48%	340,000	7,661	98%
01-02-5000-510	System Operations OT	16,000	11,542	4,458	72%	18,000	(2,000)	113%
01-02-5000-800	Standby Pay	47,852	25,667	22,185	54%	51,000	(3,148)	107%
01-02-5050-000	Employer Portion of PERS	186,553	62,418	124,135	33%	125,000	61,553	67%
01-02-5060-000	Taxes-Payroll	69,455	38,690	30,765	56%	81,000	(11,545)	117%
01-02-5070-000	Sick Leave/Vacation	85,759	59,133	26,626	69%	100,000	(14,241)	117%
01-02-5080-000	Health Dental Vision	170,368	84,446	85,922	50%	170,000	368	100%
01-02-5082-000	Life and Disability Insurance	5,215	1,642	3,573	31%	3,300	1,915	63%
01-02-5083-000	Self Insurance	1,800	625	1,175	35%	1,800	-	100%
01-02-5084-000	Wellness Program	-	1,478	(1,478)	0%	3,150	(3,150)	0%
01-02-5085-000	Workers' Compensation Ins	35,847	13,002	22,845	36%	26,000	9,847	73%
Compensation and Benefits		**$ 1,736,852**	**$ 769,092**	**$ 967,760**	**44%**	**$ 1,577,750**	**$ 159,102**	**91%**
Gen'l and Admin Expenses								
01-02-5180-000	Office Supplies & Misc Exp	$ 10,024	$ 4,876	$ 5,148	49%	$ 10,000	$ 24	100%
01-02-5320-000	Conferences & Seminars	2,637	$ 189	2,448	7%	2,000	637	76%
01-02-5355-000	Memberships/Subscriptions	525	$ 131	394	25%	525	-	100%
Gen'l and Admin Expenses		**$ 13,186**	**$ 5,196**	**$ 7,990**	**0%**	**$ 12,525**	**$ 661**	**95%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Operation Expense								
01-02-5150-000	Building Maintenance-Plant	26,119	24,336	1,783	93%	26,000	$ 119	100%
01-02-5170-000	Landscaping Expenses-Plant	5,029	1,485	3,544	30%	3,000	2,029	60%
01-02-5200-000	Utilities-Plant	15,750	8,271	7,479	53%	16,600	$ (850)	105%
01-02-5300-000	Training-Plant	9,014	5,600	3,414	62%	11,000	(1,986)	122%
01-02-5310-000	Operator Certifications-Educ	3,600	1,639	1,961	46%	3,300	$ 300	92%
01-02-5330-000	Safety & Security	20,553	9,448	11,105	46%	19,000	1,553	92%
01-02-5340-000	Uniforms	11,836	7,821	4,015	66%	15,000	$ (3,164)	127%
01-02-5360-000	Emergency Operations/Repairs	12,000	6,000	6,000	50%	12,000	-	100%
01-02-5370-000	Permit & Assessment Fees	-	-	-	0%		$ -	0%
01-02-5380-000	Tools and Eq Maintenance	15,484	9,764	5,720	63%	15,500	(16)	100%
01-02-5390-000	Nitrate Plant	82,500	29,933	52,567	36%	82,000	$ 500	99%
01-02-5441-000	Inventory Shrinkage/Overage	-	16,871	(16,871)	0%	20,000	(20,000)	0%
01-02-5442-000	Inventory Disposal	-	41	(41)	0%	41	$ (41)	0%
01-02-5445-000	Telemetering & Signal System	-	(0)	0	0%	-	-	0%
01-02-5460-000	Water Treatment Expense	102,000	52,450	49,550	51%	105,000	$ (3,000)	103%
Operation Expense		**$ 303,885**	**$ 173,659**	**$ 130,226**	**57%**	**$ 328,441**	**$ (24,556)**	**108%**
Depreciation Expense								
01-02-5805-000	Depreciation-Pumping	$ -	$ 248,049	$ (248,049)	0%	$ 496,100	$ (496,100)	0%
01-02-5810-000	Depreciation-Distribution	-	369,681	(369,681)	0%	739,400	(739,400)	0%
01-02-5815-000	Depreciation-Nitrate Plant	-	10,103	(10,103)	0%	20,200	(20,200)	0%
Depreciation Expense		**$ -**	**$ 627,833**	**$ (627,833)**	0%	**$ 1,255,700**	**$ (1,255,700)**	**0%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

GL#	Description	2nd Quarter Actuals Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Management Estimate Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Water System Expense								
01-02-5400-000	Water Usage Cost Exp Well 16	$ 157,850	$ 21,511	$ 136,339	14%	$ 60,980	$ 96,870	39%
01-02-5401-000	Purchased Water FMWD	3,332,018	1,751,092	1,580,926	53%	3,500,000	(167,982)	105%
01-02-5402-000	Power Purchased - Pumping	695,671	417,979	277,692	60%	836,000	(140,329)	120%
Water System Expense		**$ 4,185,539**	**$ 2,190,582**	**$ 1,994,957**	**52%**	**$ 4,396,980**	**$ (211,441)**	**105%**
Distribution System Expense								
01-02-5423-100	Pipelines - Maintenance	$ 43,569	$ 16,082	$ 27,487	37%	$ 33,000	$ 10,569	76%
01-02-5423-300	Fire Hydrant Repair/Replace	12,000	1,689	10,311	14%	10,000	2,000	83%
01-02-5423-500	Pipelines-Trench Plate Rentals	2,000	-	2,000	0%	-	$ 2,000	0%
01-02-5423-700	Pipelines - Valves	6,000	722	5,278	12%	2,000	4,000	33%
01-02-5424-100	Reservoir Maintenance	75,000	20,871	54,129	28%	65,000	$ 10,000	87%
01-02-5424-200	Reservoir Landscape	20,000	9,303	10,698	47%	21,000	(1,000)	105%
01-02-5425-100	Meter Maintenance	71,500	9,332	62,168	13%	50,000	$ 21,500	70%
01-02-5425-300	Meter Repair/Replace/Upgrade	10,000	6,766	3,234	68%	13,500	(3,500)	135%
01-02-5425-400	Lateral Leaks and Repairs	85,000	43,516	41,484	51%	87,000	$ (2,000)	102%
01-02-5425-500	Meters - Trench Plate Rentals	5,000	-	5,000	0%	-	5,000	0%
01-02-5431-000	Land Lease Expense Well16	-	-	-	0%	-	$ -	0%
01-02-5432-100	Well Site - Maintenance	50,000	36,804	13,196	74%	62,000	(12,000)	124%
01-02-5432-200	Well Site - Landscape	7,000	3,498	3,502	50%	7,000	$ -	100%
01-02-5433-000	Booster Pumps - Maintenance	36,000	9,485	26,515	26%	15,000	21,000	42%
01-02-5434-000	Emergency Power Generators	22,500	12,119	10,381	54%	24,000	$ (1,500)	107%
01-02-5440-100	Auto/Truck Maintenance	60,914	22,948	37,966	38%	60,000	914	98%
01-02-5440-200	Auto/Truck Maintenance-Gas	21,332	12,133	9,199	57%	24,000	$ (2,668)	113%
01-02-5440-300	Auto/Truck Maintenance-Diesel	21,537	10,067	11,470	47%	20,000	1,537	93%
Distribution System Expense		**$ 549,352**	**$ 215,333**	**$ 334,019**	**39%**	**$ 493,500**	**$ 55,852**	**90%**

ENGINEERING

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

Q2

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Compensation and Benefits								
01-03-5000-350	Engineering Labor	$ 352,170	$ 134,076	$ 218,094	38%	$ 270,000	$ 82,170	77%
01-03-5000-360	Engineering Labor OT	3,300	2,661	639	81%	4,000	(700)	121%
01-03-5045-000	Automobile Allowance	3,300	2,288	1,012	69%	4,600	(1,300)	139%
01-03-5050-000	Employer Portion of PERS	104,124	38,500	65,624	37%	77,000	27,124	74%
01-03-5060-000	Taxes-Payroll	30,644	14,383	16,261	47%	30,000	644	98%
01-03-5070-000	Sick Leave/Vacation	45,586	24,247	21,339	53%	45,000	586	99%
01-03-5080-000	Health Dental Vision	63,309	29,599	33,710	47%	60,000	3,309	95%
01-03-5082-000	Life and Disability Insurance	2,647	845	1,802	32%	1,700	947	64%
01-03-5083-000	Self Insurance	3,600	401	3,199	11%	4,000	(400)	111%
01-03-5084-000	Wellness Program	-	518	(518)	0%	1,125	(1,125)	0%
01-03-5085-000	Workers' Compensation Ins	5,998	2,171	3,827	36%	4,400	1,598	73%
Compensation and Benefits		**$ 614,678**	**$ 249,689**	**$ 364,989**	**41%**	**$ 501,825**	**$ 112,853**	**82%**
Gen'l and Admin Expenses								
01-03-5130-000	Administrative Consultants	$ 130,333	$ 18,723	$ 111,610	14%	$ 90,000	$ 40,333	69%
01-03-5135-000	Interns	2,000	1,044	956	52%	17,000	(15,000)	850%
01-03-5180-000	Office Supplies & Misc Exp	2,004	1,056	948	53%	2,500	(496)	125%
01-03-5260-000	Engineering Expense	9,769	5,017	4,752	51%	10,500	(731)	107%
01-03-5300-000	Training	1,500	730	770	49%	1,500	-	100%
01-03-5320-000	Conferences & Seminars	3,767	1,182	2,585	31%	3,700	67	98%
01-03-5355-000	Memberships/Subscriptions	2,250	2,243	7	100%	3,000	(750)	133%
Gen'l and Admin Expenses		**$ 151,623**	**$ 29,995**	**$ 121,628**	**20%**	**$ 128,200**	**$ 23,423**	**85%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget (2nd Quarter Actuals)	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense (Management Estimate)	Projected Remaining Budget	% of Total Budget
Operation Expense								
01-03-5370-000	Permit & Assessment Fees	$ 3,000	$ -	$ 3,000	0%	$ 3,000	$ -	100%
Operation Expense		**$ 3,000**	**$ -**	**$ 3,000**	**0%**	**$ 3,000**	**$ -**	**100%**
Distribution System Expense								
01-03-5410-000	Backflow Expense	$ 700	$ 111	$ 589	16%	$ 400	$ 300	57%
01-03-5423-200	Pipelines - Paving	15,500	16,520	(1,020)	107%	20,000	(4,500)	129%
01-03-5423-600	Pipelines - Leak Detect/Repair	28,000	1,148	26,852	4%	5,000	23,000	18%
01-03-5424-100	Reservoir Maintenance	1,967	18,500	(16,533)	941%	20,000	(18,033)	1017%
01-03-5425-100	Meter Maintenance	14,951	25,148	(10,197)	168%	50,000	(35,049)	334%
01-03-5425-200	Meters - Paving	205,000	51,796	153,204	25%	104,000	101,000	51%
01-03-5425-700	D-Job Meters/Hydrants	39,996	105,645	(65,649)	264%	200,000	(160,004)	500%
01-03-5431-000	Land Lease Well 16	16,000	8,220	7,780	51%	16,440	(440)	103%
01-03-5432-300	Well Site - Lease Payment	300	300	-	100%	300	-	100%
01-03-5433-000	Booster Pumps - Maintenance	36,000	-	36,000	0%	-	36,000	0%
Distribution System Expense		**$ 358,414**	**$ 227,388**	**$ 131,026**	**63%**	**$ 416,140**	**$ (57,726)**	**116%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
			2nd Quarter Actuals			Management Estimate		
Compensation and Benefits								
01-04-5000-300	Administrative Service - Labor	$ 87,694	$ 43,548	$ 44,146	50%	$ 87,700	$ (6)	100%
01-04-5045-000	Automobile Allowance	1,500	1,125	375	75%	2,250	(750)	150%
01-04-5050-000	Employer Portion of PERS	19,100	7,175	11,925	38%	14,350	4,750	75%
01-04-5060-000	Taxes-Payroll	5,879	2,821	3,058	48%	5,642	237	96%
01-04-5070-000	Sick Leave/Vacation	8,078	5,001	3,077	62%	10,002	(1,924)	124%
01-04-5080-000	Health Dental Vision	11,549	5,062	6,487	44%	10,123	1,426	88%
01-04-5082-000	Life and Disability Insurance	568	183	385	32%	400	168	70%
01-04-5083-000	Self Insurance	1,800	1,319	481	73%	3,000	(1,200)	167%
01-04-5085-000	Workers' Compensation Ins	642	229	413	36%	500	142	78%
Compensation and Benefits		**$ 136,810**	**$ 66,463**	**$ 70,347**	**49%**	**$ 133,967**	**$ 2,843**	**98%**
Gen'l and Admin Expenses								
01-04-5130-000	Administrative Consultants	$ 25,772	$ 2,010	$ 23,762	8%	$ 25,000	$ 772	97%
01-04-5135-000	Interns	3,000	-	3,000	0%	3,000	-	100%
01-04-5180-000	Office Supplies & Misc Expense	573	302	271	53%	600	(27)	105%
01-04-5270-000	Water Conservation Expense	25,500	5,046	20,454	20%	17,000	8,500	67%
01-04-5270-400	Water Conservation Rebates	5,000	50	4,950	1%	5,000	-	100%
01-04-5270-600	Community Outreach	20,000	2,130	17,870	11%	19,000	1,000	95%
01-04-5355-000	Memberships/Subscriptions	-	164	(164)	0%	164	(164)	0%
Gen'l and Admin Expenses		**$ 79,845**	**$ 9,702**	**$ 70,143**	**12%**	**$ 69,764**	**$ 10,081**	**87%**
Operation Expense								
01-04-5450-100	Lab & Sampling Expense	$ 125,000	$ 39,662	$ 85,338	32%	$ 90,000	$ 35,000	72%
01-04-5450-200	Non-Lab & Sampling	74,004	-	74,004	0%	74,000	4	100%
Operation Expense		**$ 199,004**	**$ 39,662**	**$ 159,342**	**20%**	**$ 164,000**	**$ 35,004**	**82%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

		2nd Quarter Actuals				Management Estimate		
GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Compensation and Benefits								
01-05-5000-300	Administrative Service - Labor	$ 90,789	$ 46,851	$ 43,938	52%	$ 94,000	$ (3,211)	104%
01-05-5000-310	Administrative Service - OT	250	-	250	0%	-	250	0%
01-05-5045-000	Automobile Allowance	1,500	1,125	375	75%	2,250	(750)	150%
01-05-5050-000	Employer Portion of PERS	25,468	8,998	16,470	35%	18,000	7,468	71%
01-05-5060-000	Taxes-Payroll	9,180	4,667	4,513	51%	9,300	(120)	101%
01-05-5070-000	Sick Leave/Vacation	12,505	4,668	7,837	37%	9,400	3,105	75%
01-05-5080-000	Health Dental Vision	17,243	8,235	9,008	48%	16,500	743	96%
01-05-5082-000	Life and Disability Insurance	870	278	592	32%	600	270	69%
01-05-5083-000	Self Insurance	1,800	1,330	470	74%	2,250	(450)	125%
01-05-5085-000	Workers' Compensation Ins	1,003	374	629	37%	750	253	75%
Compensation and Benefits		**$ 160,608**	**$ 76,527**	**$ 84,081**	**48%**	**$ 153,050**	**$ 7,558**	**95%**
Gen'l and Admin Expenses								
01-05-5130-000	Administrative Consultants	$ 10,303	$ 1,260	$ 9,043	12%	$ 10,000	$ 303	97%
01-05-5180-000	Office Supplies & Misc Expense	286	126	160	44%	250	36	87%
01-05-5190-000	Computers and Network	27,000	15,170	11,830	56%	27,000	-	100%
01-05-5195-000	Computer Software	50,400	30,700	19,700	61%	50,400	-	100%
01-05-5225-000	Enterprise Voice Com	17,073	3,388	13,685	20%	7,000	10,073	41%
01-05-5226-000	Wireless Voice & Data	15,724	10,938	4,786	70%	22,000	(6,276)	140%
01-05-5227-000	Data Communications - Fiber	47,340	28,213	19,127	60%	56,000	(8,660)	118%
01-05-5300-000	Training	4,838	77	4,761	2%	2,000	2,838	41%
01-05-5320-000	Conferences & Seminars	2,185	-	2,185	0%	1,000	1,185	46%
01-05-5355-000	Memberships/Subscriptions	360	-	360	0%	360	-	100%
Gen'l and Admin Expenses		**$ 175,509**	**$ 89,872**	**$ 85,637**	**51%**	**$ 176,010**	**$ (501)**	**100%**
Operation Expense								
01-05-5445-100	Telemetering & Signal System	$ 21,791	$ 18,046	$ 3,745	83%	$ 22,000	$ (209)	101%
01-05-5445-200	SCADA Hardware	9,000	156	8,844	2%	4,500	4,500	50%
01-05-5445-300	SCADA Software	23,550	12,740	10,811	54%	20,000	3,550	85%
01-05-5445-400	SCADA Phone Lines	1,355	-	1,355	0%	-	1,355	0%
Operation Expense		**$ 55,696**	**$ 30,942**	**$ 24,755**	**56%**	**$ 46,500**	**$ 9,196**	**83%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Compensation and Benefits								
01-06-5000-200	Officer Salaries	$ 175,515	$ 86,541	$ 88,974	49%	$ 173,000	$ 2,515	99%
01-06-5000-300	Administrative Service - Labor	169,498	111,498	58,000	66%	190,000	(20,502)	112%
01-06-5000-310	Administrative Service - OT	4,250	4,730	(480)	111%	9,460	(5,210)	223%
01-06-5045-000	Automobile Allowance	5,400	3,125	2,275	58%	6,250	(850)	116%
01-06-5047-000	Phone Allowance	-	126	(126)	0%	252	(252)	0%
01-06-5050-000	Employer Portion of PERS	100,955	73,081	27,874	72%	146,000	(45,045)	145%
01-06-5060-000	Taxes-Payroll	31,511	21,227	10,284	67%	42,400	(10,889)	135%
01-06-5070-000	Sick Leave/Vacation	40,919	36,483	4,436	89%	60,000	(19,081)	147%
01-06-5080-000	Health Dental Vision	70,017	57,713	12,304	82%	115,000	(44,983)	164%
01-06-5080-100	Retiree Health Care Expense	108,000	23,540	84,460	22%	47,000	61,000	44%
01-06-5082-000	Life and Disability Insurance	2,516	2,732	(216)	109%	2,700	(184)	107%
01-06-5083-000	Self Insurance	5,850	2,686	3,164	46%	5,850	-	100%
01-06-5084-000	Wellness Program	-	225	(225)	0%	750	(750)	0%
01-06-5085-000	Workers' Compensation Ins	3,885	1,677	2,208	43%	3,350	535	86%
Compensation and Benefits		**$ 718,316**	**$ 425,382**	**$ 292,934**	**59%**	**$ 802,012**	**$ (83,696)**	**112%**
Gen'l and Admin Expenses								
01-06-5090-000	GL, Property, Fidelity Ins	$ 61,200	$ 28,347	$ 32,853	46%	$ 57,000	$ 4,200	93%
01-06-5100-000	Accounting	6,750	5,311	1,439	79%	6,000	750	89%
01-06-5125-000	Legal	90,000	72,598	17,402	81%	140,000	(50,000)	156%
01-06-5130-000	Administrative Consultants	20,250	10,543	9,707	52%	21,000	(750)	104%
01-06-5150-000	Building Maintenance	13,526	11,640	1,886	86%	14,000	(474)	104%
01-06-5170-000	Landscaping Expense	11,168	3,017	8,151	27%	6,000	5,168	54%
01-06-5180-000	Office Supplies & Misc Expense	3,000	1,281	1,719	43%	2,500	500	83%
01-06-5200-000	Utilities	22,526	11,399	11,127	51%	22,800	(274)	101%
01-06-5230-000	Printing Postage Stationery	36,000	20,496	15,504	57%	41,000	(5,000)	114%
01-06-5250-000	Water System Fees	60,000	43,252	16,748	72%	60,000	-	100%
01-06-5300-000	Training	4,500	1,541	2,959	34%	3,000	1,500	67%
01-06-5320-000	Conferences & Seminars	3,315	4,364	(1,049)	132%	4,364	(1,049)	132%
01-06-5350-000	Misc Administration	3,495	2,107	1,388	60%	3,500	(5)	100%
01-06-5355-000	Memberships/Subscriptions	22,275	16,609	5,666	75%	22,000	275	99%
01-06-5365-000	Bank Charges	33,000	17,251	15,749	52%	34,500	(1,500)	105%
Gen'l and Admin Expenses		**$ 391,005**	**$ 249,756**	**$ 141,249**	**64%**	**$ 437,664**	**$ (46,659)**	**112%**

Crescenta Valley Water District
Water Budget Variance Report
Actuals as of December 31, 2019 (50% of Year)

Depreciation Expense							
01-06-5800-000	Depreciation - Office	$ -	$ 16,803	$ (16,803)	0%	$ 33,600	$ (33,600)	0%
Depreciation Expense		**$ -**	**$ 16,803**	**$ (16,803)**	**0%**	**$ 33,600**	**$ (33,600)**	**0%**
Non-Operating Expense								
0106-5910-000	Interest Expense - Notes	$ -	$ 124,242	$ (124,242)	0%	$ 248,500	$ (248,500)	0%
01-06-5920-100	Rental Expenses - PA House	857	-	857	0%	800	57	93%
01-06-5920-200	Rental Expenses - Sycamore	1,385	-	1,385	0%	1,000	385	72%
Non-Operating Expense		**$ 2,242**	**$ -**	**$ 2,242**	**0%**	**$ 250,300**	**$ (248,058)**	**11164%**
Operation Expense								
01-06-5145-000	Taxes-Property	$ 18,000	$ 6,829	$ 11,171	38%	$ 14,000	$ 4,000	78%
Operation Expense		**$ 18,000**	**$ 6,829**	**$ 11,171**	**38%**	**$ 14,000**	**$ 4,000**	**78%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Summary - As of December 31, 2019 (50% of Year)

Description		Annual Budget	2nd Quarter Actuals: 2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Management Estimate: Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Revenue								
	Wastewater - User Charges	$ 3,305,000	$ 1,565,118	$ 1,504,534	47%	$ 3,130,235	$ 174,765	95%
	Interest Income Wastewater	500	421	4,397,639	84%	800	(300)	160%
	Other Income Wastewater	7,500	5,120	85,000	68%	9,400	(1,900)	125%
	Construction Revenue	29,000	14,548	334,724	50%	29,040	(40)	100%
Revenue		**$ 3,342,000**	**$ 1,585,207**	**$ 6,321,897**	**47%**	**$ 3,169,475**	**$ 172,525**	**95%**
Expenses								
	Labor & Benefits	1,710,943	767,627	1,785,749	45%	1,546,074	164,869	90%
	City of LA Sewer Services	1,426,000	731,043	1,580,926	51%	1,462,000	(36,000)	103%
	Operating Cost	449,145	235,211	136,339	52%	456,550	(7,405)	102%
Expenses		**$ 3,586,088**	**$ 1,733,882**	**$ 3,503,014**	**48%**	**$ 3,464,624**	**$ 121,464**	**97%**
	CIP	175,000	-	175,000	**0%**	75,000	100,000	43%
	Infastructure	80,000	3,481	76,519	**4%**	77,000	3,000	96%
	OPEB	200,000		200,000	**0%**	200,000	-	100%
Total CIP, Infastructure, OPEB		**455,000**	**3,481**	**451,519**	**1%**	**$ 352,000**	**$ 103,000**	**77%**
Net Revenue minus Expenses		**(699,088)**	**(152,156)**			**(647,149)**		

Crescenta Valley Water District

Wastewater Budget Variance Report

Revenue - As of December 31, 2019 (50% of Year)

Description		Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Revenue								
4010-000	Sewage Disposal Sales	$ 3,305,000	$ 1,565,118	$ 1,739,882	47%	$ 3,130,235	$ 174,765	95%
4220-000	Property Owner Assessments	25,000	14,288	10,712	57%	28,000	(3,000)	112%
4225-000	Sewer Permits	4,000	260	3,740	7%	1,040	2,960	26%
4230-000	Interest Earned - Sewer	500	421	79	84%	800	(300)	160%
4240-000	Unrealized Gain/Loss on Invest	-	-	-	0%	-	-	0%
4260-000	Fair Value Adjustment	-	-	-	0%	-	-	0%
4265-000	Gain/Loss on Sale of Assets	-	-	-	0%	-	-	0%
4270-000	Gain/Loss Sale of Investments	-	-	-	0%	-	-	0%
4271-000	Rental Income - PA House	3,000	2,100	900	70%	4,200	(1,200)	140%
4275-001	Rental Income - Sycamore House	4,500	3,020	1,480	67%	5,200	(700)	116%
Revenue		**$ 3,342,000**	**$ 1,585,207**	**$ 1,756,793**	**47%**	**$ 3,169,475**	**$ 172,525**	**95%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Expense - As of December 31, 2019 (50% of Year)

		2nd Quarter Actuals				Management Estimate		
	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Compensation and Benefits								
5000-100	Director Fees	$ 9,000	$ 3,105	$ 5,895	35%	$ 6,210	$ 2,790	69%
5060-000	Taxes - Payroll	97,779	30,618	67,161	31%	61,280	36,499	63%
5085-000	Workers' Compensation Ins	31,584	11,651	19,933	37%	23,440	8,144	74%
5000-300	Administrative Service - Labor	388,715	178,721	209,994	46%	357,900	30,815	92%
5000-310	Administrative Service - OT	4,000	4,831	(831)	121%	9,100	(5,100)	228%
5000-400	Maintenance Labor	133,177	40,087	93,090	30%	100,000	33,177	75%
5000-410	Maintenance Labor OT	21,000	3,445	17,556	16%	6,900	14,100	33%
5000-800	Standby Pay	14,494	8,556	5,938	59%	17,100	(2,606)	118%
5050-000	Employer Portion of PERS	290,799	126,494	164,305	43%	252,962	37,837	87%
5070-000	Sick Leave/Vacation	64,403	77,161	(12,758)	120%	142,500	(78,097)	221%
5080-000	Health Dental Vision	221,657	121,510	100,147	55%	243,650	(21,993)	110%
5082-000	Life and Disability Insurance	7,878	3,786	4,092	48%	7,550	328	96%
5083-000	Self Insurance	9,900	4,154	5,746	42%	10,400	(500)	105%
5084-000	Wellness Program	-	741	(741)	0%	1,800	(1,800)	0%
5000-350	Engineering Labor	157,441	44,692	112,749	28%	90,000	67,441	57%
5000-360	Engineering Labor OT	1,400	887	513	63%	1,500	(100)	107%
5045-000	Automobile Allowance	10,201	4,638	5,563	45%	8,530	1,671	84%
5000-200	Officer Salaries	175,515	86,541	88,974	49%	173,000	2,515	99%
5047-000	Phone Allowance	-	126	(126)	0%	252	(252)	0%
5080-100	Retiree Health Care Expense	72,000	15,885	56,115	22%	32,000	40,000	44%
Compensation and Benefits		**$ 1,710,943**	**$ 767,627**	**$ 943,316**	**45%**	**$ 1,546,074**	**$ 164,869**	**90%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Expense - As of December 31, 2019 (50% of Year)

	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Gen'l and Admin Expenses								
5320-000	Conferences & Seminars	$ 4,418	$ 2,516	$ 1,902	57%	$ 4,785	$ (367)	108%
5350-000	Misc Administration	2,350	1,190	1,160	51%	2,116	234	90%
5180-000	Office Supplies & Misc Expense	14,500	7,514	6,986	52%	15,146	(646)	104%
5355-000	Memberships/Subscriptions	8,333	5,536	2,797	66%	7,200	1,133	86%
5130-000	Administrative Consultants	37,596	5,086	32,510	14%	43,630	(6,034)	116%
5135-000	Interns	-	348	(348)	0%	5,700	(5,700)	0%
5260-000	Engineering Expense	3,308	1,672	1,636	51%	3,500	(192)	106%
5300-000	Training	5,150	3,355	1,795	65%	3,995	1,155	78%
5190-000	Computers and Network	8,333	5,029	3,304	60%	8,000	333	96%
5195-000	Computer Software	17,667	7,280	10,387	41%	15,000	2,667	85%
5225-000	Enterprise Voice Communication	13,419	1,796	11,623	13%	3,600	9,819	27%
5226-000	Wireless Voice & Data	4,697	3,454	1,243	74%	7,000	(2,303)	149%
5227-000	Data Communications - Fiber	16,333	9,657	6,676	59%	19,300	(2,967)	118%
5090-000	GL, Property, Fidelity Ins	52,000	28,347	23,653	55%	46,500	5,500	89%
5100-000	Accounting	7,500	5,989	1,511	80%	6,000	1,500	80%
5125-000	Legal	20,000	17,699	2,301	88%	36,300	(16,300)	182%
5150-000	Building Maintenance	12,469	11,709	760	94%	11,810	659	95%
5170-000	Landscaping Expense	8,253	1,923	6,330	23%	3,553	4,700	43%
5200-000	Utilities	11,968	5,579	6,389	47%	11,203	765	94%
5230-000	Printing Postage Stationery	35,000	20,258	14,742	58%	42,100	(7,100)	120%
5365-000	Bank Charges	25,000	17,245	7,755	69%	32,300	(7,300)	129%
Gen'l and Admin Expenses		**$ 308,294**	**$ 163,183**	**$ 145,111**	**53%**	**$ 328,738**	**$ (20,444)**	**107%**
Depreciation								
5805-000	Depreciation-Pumping	$ -	$ 36,709	$ (36,709)	0%	$ 73,418	$ (73,418)	0%
5820-000	Depreciation-Collection System	-	294,241	(294,241)	0%	588,482	(588,482)	0%
5800-000	Depreciation-Office	-	3,568	(3,568)	0%	7,136	(7,136)	0%
Depreciation		**$ -**	**$ 334,518**	**$ (334,518)**	**0%**	**$ 669,036**	**$ (669,036)**	**0%**
Non-Operating Expense								
5920-100	Rental Expenses - PA House	$ 425	$ -	$ 425	0%	$ -	$ 425	0%
5920-200	Rental Expenses - Sycamore	425	-	425	0%	-	425	0%
Non-Operating Expense		**$ 850**	**$ -**	**$ 850**	**0%**	**$ -**	**$ 850**	**0%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Expense - As of December 31, 2019 (50% of Year)

	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Operations Expense								
5145-000	Taxes-Property	$ 4,364	$ 2,276	$ 2,088	52%	$ 4,200	$ 164	96%
5310-000	Operator Certifications-Educ	1,000	42	958	4%	400	600	40%
5330-000	Safety & Security	8,333	4,404	3,929	53%	8,000	333	96%
5340-000	Uniforms	3,518	2,431	1,087	69%	4,800	(1,282)	136%
5380-000	Tools and Eq Maintenance	16,000	12,956	3,044	81%	20,000	(4,000)	125%
5402-000	Power Purchased - Lift Stn	750	255	495	34%	600	150	80%
5445-100	Telemetering & Signal System	3,308	3,091	217	93%	6,182	(2,874)	187%
5445-200	SCADA Hardware	2,500	44	2,456	2%	88	2,412	4%
5445-300	SCADA Software	4,333	-	4,333	0%	-	4,333	0%
5445-400	SCADA Phone Lines	821	-	821	0%	-	821	0%
Operations Expense		**$ 44,927**	**$ 25,500**	**$ 19,427**	**57%**	**$ 44,270**	**$ 657**	**99%**
Wastewater System Expense								
5434-000	Emergency Power Generators	$ -	$ 1,742	$ (1,742)	0%	$ 1,742	$ (1,742)	0%
5700-000	Wastewater System Expense	1,426,000	731,043	694,957	51%	1,462,000	(36,000)	103%
Wastewater System Expense		**$ 1,426,000**	**$ 732,785**	**$ 693,215**	**51%**	**$ 1,463,742**	**$ (37,742)**	**103%**
Collection System Expense								
5423-000	Pipelines - Maintenance	$ -	$ -	$ -	0%	$ -	$ -	0%
5423-100	Pipelines - Maintenance	20,364	1,193	19,171	6%	2,500	17,864	12%
5440-100	Auto/Truck Maintenance	37,594	13,426	24,168	36%	27,000	10,594	72%
5440-200	Auto/Truck Maintenance-Gas	6,252	3,840	2,412	61%	7,600	(1,348)	122%
5440-300	Auto/Truck Maintenance-Diesel	5,891	2,943	2,948	50%	5,900	(9)	100%
5621-000	Sewer Flow Monitoring Expense	15,273	7,000	8,273	46%	14,000	1,273	92%
5624-000	Sewer Camera Van Inspection	2,618	-	2,618	0%	-	2,618	0%
5625-000	Sewer Interceptor Maintenance	2,727	4,380	(1,653)	161%	10,000	(7,273)	367%
5628-000	Sewer Lift Station Maintenance	3,055	12,004	(8,949)	393%	13,500	(10,445)	442%
Collection System Expense		**$ 93,774**	**$ 44,786**	**$ 48,988**	**48%**	**$ 80,500**	**$ 13,274**	**86%**

BOARD

Crescenta Valley Water District
Wastewater Budget Variance Report
Board - As of December 31, 2019 (50% of Year)

Q2

		2nd Quarter Actuals				Management Estimate		
GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Compensation and Benefits								
02-01-5000-100	Director Fees	$ 9,000	$ 3,105	$ 5,895	35%	$ 6,210	$ 2,790	69%
02-01-5060-000	Taxes - Payroll	-	234	(234)	-	468	(468)	0%
02-01-5085-000	Workers' Compensation Ins	-	15	(15)	-	30	(30)	0%
	Compensation and Benefits	**$ 9,000**	**$ 3,354**	**$ 5,646**	**37%**	**$ 6,708**	**$ 2,292**	**75%**
Gen'l and Admin Expenses								
02-01-5320-000	Conferences & Seminars	$ 1,636	$ 942	$ 694	58%	$ 1,885	$ (249)	115%
02-01-5350-000	Misc Administration	650	380	270	58%	760	(110)	117%
	Gen'l and Admin Expenses	**$ 2,286**	**$ 1,322**	**$ 964**	**58%**	**$ 2,645**	**$ (359)**	**116%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Operations - As of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Compensation and Benefits								
02-02-5000-300	Administrative Service - Labor	$ 78,333	$ 30,693	$ 47,640	39%	$ 61,400	$ 16,933	78%
02-02-5000-310	Administrative Service - OT	-	101	(101)	0%	100	(100)	0%
02-02-5000-400	Maintenance Labor	133,177	40,087	93,090	30%	100,000	33,177	75%
02-02-5000-410	Maintenance Labor OT	21,000	3,445	17,556	16%	6,900	14,100	33%
02-02-5000-800	Standby Pay	14,494	8,556	5,938	59%	17,100	(2,606)	118%
02-02-5050-000	Employer Portion of PERS	121,651	40,359	81,292	33%	80,700	40,951	66%
02-02-5060-000	Taxes-Payroll	44,280	5,798	38,482	13%	11,600	32,680	26%
02-02-5070-000	Sick Leave/Vacation	25,713	11,460	14,253	45%	23,000	2,713	89%
02-02-5080-000	Health Dental Vision	113,578	56,611	56,967	50%	113,300	278	100%
02-02-5082-000	Life and Disability Insurance	3,441	1,095	2,346	32%	2,200	1,241	64%
02-02-5083-000	Self Insurance	1,100	417	683	38%	1,200	(100)	109%
02-02-5084-000	Wellness Program	-	493	(493)	0%	1,050	(1,050)	0%
02-02-5085-000	Workers' Compensation Ins	25,597	8,668	16,929	34%	17,500	8,097	68%
Compensation and Benefits		**$ 582,364**	**$ 207,782**	**$ 374,582**	**36%**	**$ 436,050**	**$ 146,314**	**75%**
Gen'l and Admin Expenses								
02-02-5180-000	Office Supplies & Misc Expense	$ 9,000	$ 4,537	$ 4,463	50%	$ 9,000	$ -	100%
02-02-5320-000	Conferences & Seminars	616	62	554	10%	500	116	81%
02-02-5355-000	Memberships/Subscriptions	172	-	172	0%	-	172	0%
Gen'l and Admin Expenses		**$ 9,788**	**$ 4,599**	**$ 5,189**	**0%**	**$ 9,500**	**$ 288**	**97%**
Depreciation Expense								
02-02-5805-000	Depreciation-Pumping	$ -	$ 36,709	$ (36,709)	0%	$ 73,418	$ (73,418)	0%
02-02-5820-000	Depreciation-Collection System	-	294,241	(294,241)	0%	588,482	(588,482)	0%
Depreciation Expense		**$ -**	**$ 330,950**	**$ (330,950)**	**0%**	**$ 661,900**	**$ (661,900)**	**0%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Operations - As of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Operation Expense								
02-02-5150-000	Building Maintenance-Plant	$ 8,500	$ 8,159	$ 341	96%	$ 8,500	$ -	100%
02-02-5170-000	Landscaping Expense-Plant	4,135	850	3,285	21%	2,000	2,135	48%
02-02-5200-000	Utilities-Plant	5,000	1,595	3,405	32%	3,200	1,800	64%
02-02-5300-000	Training-Plant	2,650	2,861	(211)	108%	2,861	(211)	108%
02-02-5310-000	Operator Certifications-Educ	1,000	42	958	4%	400	600	40%
02-02-5330-000	Safety & Security	8,333	4,404	3,929	53%	8,000	333	96%
02-02-5340-000	Uniforms	3,518	2,431	1,087	69%	4,800	(1,282)	136%
02-02-5380-000	Tools and Eq Maintenance	16,000	12,956	3,044	81%	20,000	(4,000)	125%
02-02-5402-000	Power Purchased - Lift Stn	750	255	495	34%	600	150	80%
Operation Expense		**$ 49,886**	**$ 33,554**	**$ 16,332**	**67%**	**$ 50,361**	**$ (475)**	**101%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Operations - As of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Collection System Expense								
02-02-5423-000	Pipeline Maintenance	$ -	$ -	$ -	0%	$ -	$ -	0%
02-02-5423-100	Pipelines - Maintenance	20,364	1,193	19,171	6%	2,500	17,864	12%
02-02-5440-100	Auto/Truck Maintenance	37,594	13,426	24,168	36%	27,000	10,594	72%
02-02-5440-200	Auto/Truck Maintenance-Gas	6,252	3,840	2,412	61%	7,600	(1,348)	122%
02-02-5440-300	Auto/Truck Maintenance-Diesel	5,891	2,943	2,948	50%	5,900	(9)	100%
02-02-5621-000	Sewer Flow Monitoring Expense	-	-	-	0%	-	-	0%
02-02-5624-000	Sewer Camera Van Inspection	2,618	-	2,618	0%	-	2,618	0%
02-02-5625-000	Sewer Interceptor Maintenance	2,727	4,380	(1,653)	161%	10,000	(7,273)	367%
02-02-5628-000	Sewer Lift Station Maintenance	3,055	12,004	(8,949)	393%	13,500	(10,445)	442%
Collection System Expense		**$ 78,501**	**$ 37,786**	**$ 40,715**	**48%**	**$ 66,500**	**$ 12,001**	**85%**
Wastewater System Expense								
02-02-5434-000	Emergency Power Generators	$ -	$ 1,742	$ (1,742)	0%	$ 1,742	$ (1,742)	0%
02-02-5700-000	Wastewater System Expense	1,426,000	731,043	694,957	51%	1,462,000	(36,000)	103%
Wastewater System Expense		**$ 1,426,000**	**$ 732,785**	**$ 693,215**	**51%**	**$ 1,463,742**	**$ (37,742)**	**103%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Engineering - As of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Compensation and Benefits								
02-03-5000-350	Engineering Labor	$ 157,441	$ 44,692	$ 112,749	28%	$ 90,000	$ 67,441	57%
02-03-5000-360	Engineering Labor OT	1,400	887	513	63%	1,500	(100)	107%
02-03-5045-000	Automobile Allowance	2,877	763	2,114	27%	1,530	1,347	53%
02-03-5050-000	Employer Portion of PERS	68,462	25,040	43,422	37%	50,000	18,462	73%
02-03-5060-000	Taxes-Payroll	21,044	4,794	16,250	23%	9,600	11,444	46%
02-03-5070-000	Sick Leave/Vacation	15,687	8,886	6,801	57%	16,000	(313)	102%
02-03-5080-000	Health Dental Vision	42,545	19,733	22,812	46%	40,000	2,545	94%
02-03-5082-000	Life and Disability Insurance	375	563	(188)	150%	1,130	(755)	301%
02-03-5083-000	Self Insurance	2,200	180	2,020	8%	2,400	(200)	109%
02-03-5084-000	Wellness Program	-	173	(173)	0%	600	(600)	0%
02-03-5085-000	Workers' Compensation Ins	3,234	1,447	1,787	45%	2,900	334	90%
Compensation and Benefits		**$ 315,265**	**$ 107,158**	**$ 208,107**	**34%**	**$ 215,660**	**$ 99,605**	**68%**
Gen'l and Admin Expenses								
02-03-5130-000	Administrative Consultants	$ 26,251	$ -	$ 26,251	0%	$ 20,000	$ 6,251	76%
02-03-5135-000	Interns	-	348	(348)	0%	5,700	(5,700)	0%
02-03-5180-000	Office Supplies & Misc Expense	1,880	905	975	48%	2,000	(120)	106%
02-03-5260-000	Engineering Expense	3,308	1,672	1,636	51%	3,500	(192)	106%
02-03-5300-000	Training	346	112	234	32%	500	(154)	145%
02-03-5320-000	Conferences & Seminars	880	324	556	37%	1,200	(320)	136%
02-03-5355-000	Memberships/Subscriptions	738	-	738	0%	200	538	27%
Gen'l and Admin Expenses		**$ 33,403**	**$ 3,361**	**$ 30,042**	**10%**	**$ 33,100**	**$ 303**	**99%**
Collection System Expense								
02-03-5621-000	Sewer Flow Monitoring Expense	$ 15,273	$ 7,000	$ 8,273	46%	$ 14,000	$ 1,273	92%
Collection System Expense		**$ 15,273**	**$ 7,000**	**$ 8,273**	**46%**	**$ 14,000**	**$ 1,273**	**92%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Regulatory - As of December 31, 2019 (50% of Year)

		2nd Quarter Actuals				Management Estimate		
GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Compensation and Benefits								
02-04-5000-300	Administrative Service - Labor	$ 29,697	$ 15,114	$ 14,583	51%	$ 30,200	$ (503)	102%
02-04-5045-000	Automobile Allowance	1,308	375	933	29%	750	558	57%
02-04-5050-000	Employer Portion of PERS	12,558	4,783	7,775	38%	9,600	2,958	76%
02-04-5060-000	Taxes-Payroll	4,051	940	3,111	23%	1,900	2,151	47%
02-04-5070-000	Sick Leave/Vacation	2,780	4,275	(1,495)	154%	6,000	(3,220)	216%
02-04-5080-000	Health Dental Vision	7,761	3,375	4,386	43%	6,750	1,011	87%
02-04-5082-000	Life and Disability Insurance	1,746	122	1,624	7%	250	1,496	14%
02-04-5083-000	Self Insurance	1,100	879	221	80%	1,200	(100)	109%
02-04-5085-000	Workers' Compensation Ins	-	153	(153)	0%	310	(310)	0%
Compensation and Benefits		**$ 61,001**	**$ 30,016**	**$ 30,985**	**49%**	**$ 56,960**	**$ 4,041**	**93%**
Gen'l and Admin Expenses								
02-04-5130-000	Administrative Consultants	$ 5,191	$ -	$ 5,191	0%	$ 2,500	$ 2,691	48%
02-04-5180-000	Office Supplies & Misc Expense	537	302	235	56%	604	(67)	112%
Gen'l and Admin Expenses		**$ 5,728**	**$ 302**	**$ 5,426**	**5%**	**$ 3,104**	**$ 2,624**	**54%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Technology - As of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
		2nd Quarter Actuals				Management Estimate		
Compensation and Benefits								
02-05-5000-300	Administrative Service - Labor	$ 92,235	$ 46,659	$ 45,576	51%	$ 93,300	$ (1,065)	101%
02-05-5000-310	Administrative Service - OT	222	-	222	0%	-	222	0%
02-05-5045-000	Automobile Allowance	1,308	375	933	29%	750	558	57%
02-05-5050-000	Employer Portion of PERS	16,745	5,581	11,164	33%	11,162	5,583	67%
02-05-5060-000	Taxes-Payroll	6,325	1,556	4,769	25%	3,112	3,213	49%
02-05-5070-000	Sick Leave/Vacation	4,303	12,837	(8,534)	298%	18,000	(13,697)	418%
02-05-5080-000	Health Dental Vision	11,588	5,490	6,098	47%	11,000	588	95%
02-05-5082-000	Life and Disability Insurance	574	185	389	32%	370	204	64%
02-05-5083-000	Self Insurance	1,100	887	213	81%	1,200	(100)	109%
02-05-5085-000	Workers' Compensation Ins	541	250	291	46%	500	41	92%
Compensation and Benefits		**$ 134,941**	**$ 73,820**	**$ 61,121**	**55%**	**$ 139,394**	**$ (4,453)**	**103%**
Gen'l and Admin Expenses								
02-05-5130-000	Administrative Consultants	$ 2,075	$ 258	$ 1,817	12%	$ 2,000	$ 75	96%
02-05-5180-000	Office Supplies & Misc Expense	269	173	96	64%	350	(81)	130%
02-05-5190-000	Computers and Network	8,333	5,029	3,304	60%	8,000	333	96%
02-05-5195-000	Computer Software	17,667	7,280	10,387	41%	15,000	2,667	85%
02-05-5225-000	Enterprise Voice Com	13,419	1,796	11,623	13%	3,600	9,819	27%
02-05-5226-000	Wireless Voice & Data	4,697	3,454	1,243	74%	7,000	(2,303)	149%
02-05-5227-000	Data Communications - Fiber	16,333	9,657	6,676	59%	19,300	(2,967)	118%
02-05-5300-000	Training	1,116	24	1,092	2%	100	1,016	9%
02-05-5320-000	Conferences & Seminars	511	-	511	0%	-	511	0%
02-05-5355-000	Memberships/Subscriptions	118	-	118	0%	-	118	0%
Gen'l and Admin Expenses		**$ 64,538**	**$ 27,671**	**$ 36,867**	**43%**	**$ 55,350**	**$ 9,188**	**86%**
Operation Expense								
02-05-5445-100	Telemetering & Signal System	$ 3,308	$ 3,091	$ 217	93%	$ 6,182	$ (2,874)	187%
02-05-5445-200	SCADA Hardware	2,500	44	2,456	2%	88	2,412	4%
02-05-5445-300	SCADA Software	4,333	-	4,333	0%	-	4,333	0%
02-05-5445-400	SCADA Phone Lines	821	-	821	0%	-	821	0%
Operation Expense		**$ 10,962**	**$ 3,135**	**$ 7,827**	**29%**	**$ 6,270**	**$ 4,692**	**57%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Administration - As of December 31, 2019 (50% of Year)

		2nd Quarter Actuals				Management Estimate		
GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Compensation and Benefits								
02-06-5000-200	Officer Salaries	$ 175,515	$ 86,541	$ 88,974	49%	$ 173,000	$ 2,515	99%
02-06-5000-300	Administrative Service - Labor	188,450	86,255	102,195	46%	173,000	15,450	92%
02-06-5000-310	Administrative Service - OT	3,778	4,730	(952)	125%	9,000	(5,222)	238%
02-06-5045-000	Automobile Allowance	4,708	3,125	1,583	66%	5,500	(792)	117%
02-06-5047-000	Phone Allowance	-	126	(126)	0%	252	(252)	0%
02-06-5050-000	Employer Portion of PERS	71,383	50,731	20,652	71%	101,500	(30,117)	142%
02-06-5060-000	Taxes-Payroll	22,079	17,296	4,783	78%	34,600	(12,521)	157%
02-06-5070-000	Sick Leave/Vacation	15,920	39,703	(23,783)	249%	79,500	(63,580)	499%
02-06-5080-000	Health Dental Vision	46,185	36,301	9,884	79%	72,600	(26,415)	157%
02-06-5080-100	Retiree Health Care Expense	72,000	15,885	56,115	22%	32,000	40,000	44%
02-06-5082-000	Life and Disability Insurance	1,742	1,821	(79)	105%	3,600	(1,858)	207%
02-06-5083-000	Self Insurance	4,400	1,791	2,609	41%	4,400	-	100%
02-06-5084-000	Wellness Program	-	75	(75)	0%	150	(150)	0%
02-06-5085-000	Workers' Compensation Ins	2,212	1,118	1,094	51%	2,200	12	99%
Compensation and Benefits		**$ 608,372**	**$ 345,498**	**$ 262,874**	**57%**	**$ 691,302**	**$ (82,930)**	**114%**

Crescenta Valley Water District
Wastewater Budget Variance Report
Administration - As of December 31, 2019 (50% of Year)

GL#	Description	Annual Budget	2nd Quarter Actual	Remaining Annual Budget	% of Total Budget	Projected Year-End Expense	Projected Remaining Budget	% of Total Budget
Gen'l and Admin Expenses								
02-06-5090-000	GL, Property, Fidelity Ins	$ 52,000	$ 28,347	$ 23,653	55%	$ 46,500	$ 5,500	89%
02-06-5100-000	Accounting	7,500	5,989	1,511	80%	6,000	1,500	80%
02-06-5125-000	Legal	20,000	17,699	2,301	88%	36,300	(16,300)	182%
02-06-5130-000	Administrative Consultants	4,079	4,828	(749)	118%	19,130	(15,051)	469%
02-06-5150-000	Building Maintenance	3,969	3,550	419	89%	3,310	659	83%
02-06-5170-000	Landscaping Expense	4,118	1,073	3,045	26%	1,553	2,565	38%
02-06-5180-000	Office Supplies & Misc Expense	2,814	1,597	1,217	57%	3,192	(378)	113%
02-06-5200-000	Utilities	6,968	3,984	2,984	57%	8,003	(1,035)	115%
02-06-5230-000	Printing Postage Stationery	35,000	20,258	14,742	58%	42,100	(7,100)	120%
02-06-5300-000	Training	1,038	358	680	34%	534	504	51%
02-06-5320-000	Conferences & Seminars	775	1,188	(413)	153%	1,200	(425)	155%
02-06-5350-000	Misc Administration	1,700	810	890	48%	1,356	344	80%
02-06-5355-000	Memberships/Subscriptions	7,305	5,536	1,769	76%	7,000	305	96%
02-06-5365-000	Bank Charges	25,000	17,245	7,755	69%	32,300	(7,300)	129%
Gen'l and Admin Expenses		**$ 172,266**	**$ 112,462**	**$ 59,804**	**65%**	**$ 208,478**	**$ (36,212)**	**121%**
Depreciation Expense								
02-06-5800-000	Depreciation-Office	$ -	$ 3,568	$ (3,568)	0%	$ 7,136	$ (7,136)	0%
Depreciation Expense		**$ -**	**$ 3,568**	**$ (3,568)**	**0%**	**$ 7,136**	**$ (7,136)**	**0%**
Non-Operating Expense								
02-06-5920-100	Rental Expenses - PA House	$ 425	$ -	$ 425	0%	$ -	$ 425	0%
02-06-5920-200	Rental Expenses - Sycamore	425	-	425	0%	-	425	0%
Non-Operating Expense		**$ 850**	**$ -**	**$ 850**	**0%**	**$ -**	**$ 850**	**0%**
Operation Expense								
02-06-5145-000	Taxes-Property	$ 4,364	$ 2,276	$ 2,088	52%	$ 4,200	$ 164	96%
Operation Expense		**$ 4,364**	**$ 2,276**	**$ 2,088**	**52%**	**$ 4,200**	**$ 164**	**96%**

CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
February 25, 2020

To: Honorable President and Members of the Board of Directors

From: Nem Ochoa – General Manager

Subject: **2020 Cost of Service Study Update**

ACTION ITEM:

1. **Water and Wastewater Cost of Service Study Update** – Discussion of the 2020 Water and Wastewater Cost of Service Study.

BACKGROUND:

The District is conducting a cost of service study to ensure that the District is collecting the appropriate allocation of revenue from its various customer classes and that the water and wastewater rates charged reflect the cost of providing customers with water and wastewater services.

Raftelis Financial Consultants (RFC) specializes in preparing cost of service studies, and is the independent party engaged by the District to certify that the District will continue meeting legal and other regulatory requirements with respect to setting water and wastewater rates.

The following is an updated schedule for the 2020 cost of service study being prepared by RFC and consideration of adoption of the water and wastewater rates

Cost of Service Study Schedule	Date/Period
Project Kickoff	January 2020
Staff Meeting - *review financial plan*	February 18, 2020
Finance Committee Meeting - *review study objectives, methodology, and community outreach presentation*	February 21, 2020
Board Meeting - *review study objectives, methodology, and community outreach presentation*	February 25, 2020
Community Advisory Committee Meeting - *review study objectives and methodology*	Week of March 2, 2020
Staff Meeting - *review COS analysis*	March 4, 2020
Finance Committee Meeting - *review draft of study*	March 6, 2020
Board Meeting - *review draft of study*	March 10, 2020
Community Advisory Committee Meeting - *review draft of study*	Week of March 16, 2020
Board Meeting - *present final draft of study / prepare draft Prop 218 Notices*	March 24, 2020
Board Meeting - *approve Prop 218 Notices*	April 14, 2020
Mail Prop 218 Notices	April 15, 2020
45-Day Notice Period Complete	May 30, 2020
Public Hearing	June 9, 2020
Consideration for Adoption of Rates	June 23, 2020

It is also important to note that customers will be given the opportunity to understand the study process and its results. Staff will moderate two (2) workshops with the District's Community Advisory Committee.

The first workshop will focus on the study objectives and methodology to ensure customer understanding. This presentation was discussed with the Finance Committee on February 21, 2020, and it is attached for reference. The second workshop will discuss the results of the study in terms of how costs are allocated, rate calculations, and customer impact analyses.

RECOMMENDATION

Discussion and input from the Board of Directors on the status of the 2020 Water and Wastewater Cost of Service Study and the proposed schedule.

Prepared by:

James Lee
Director of Finance & Administration

Submitted by:

Nem Ochoa
General Manager

Attachment(s): Community Advisory Committee Workshop 1 of 2 presentation

g:\management\board meeting staff reports\2020\02-25-20 Board Memo - Cost of Service Study Update.docx

MAIN QUESTIONS

- What is a Cost of Service Study?
  - What does it do?
  - What is the methodology
- Why is a cost of service analysis and rate study important?
- Why can I trust the work and the results?
- How will this impact customers?

WHAT IS A COST OF SERVICE STUDY?

- What is it?
  - A technical process of allocating water and wastewater service costs to customers
- What does it do?
  - It identifies the service requirements of different customer groups in order to develop rates and ensure equity between users
- What is the methodology
  - First, operating and capital costs are "functionalized" and then distributed to various system cost components
  - Second, units of service are identified in order to develop unit costs
  - Thirs, unit costs are derived
  - Fouth, total costs are allocated to each customer class based on their units of service

WHY IS A COST OF SERVICE ANALYSIS AND RATE STUDY IMPORTANT?

- Different customer types cause an agency to incur different costs
- A cost of service analysis ensures costs are allocated to different classes proportional to their responsibility
- The rates charged will match the cost to serve each class
- Each class pays its own way
  - In California there can be no subsidy between classes!

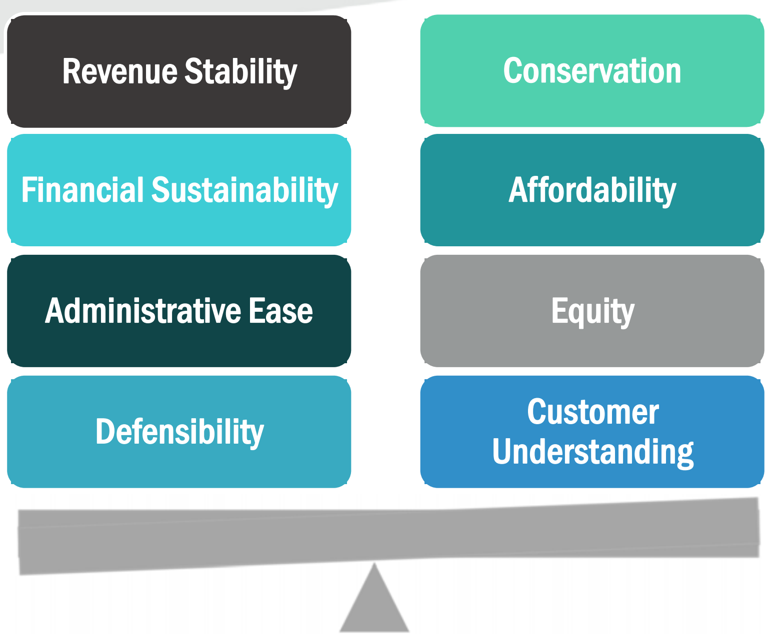
WHY CAN I TRUST THE WORK AND THE RESULTS?

- The rate study is completed by an independent consultant who specializes in rate setting
- The independent rate practitioner provides an objective review of the Agency's financial position, cost structure, cost allocations, and rate structures
- The rate practitioner follows methodologies approved and published by the two National Associations governing this type of water and wastewater work
  - The American Water Works Association (AWWA) *Manual M1: Principles of Water Rates, Fees, and Charges*
  - The Water Environment Federation (WEF) *Manual of Practice No.27, Financing and Charges for Wastewater Systems*
- Within California all rate-setting must be cost-of-service based for each customer class and tier to comply with Proposition 218, an amendment to the State Constitution

HOW WILL THIS STUDY IMPACT CUSTOMERS?

- By law the District cannot make a profit on its services and it may not subsidize specific types of customers
  - Therefore the cost of service analysis is a “zero-sum” outcome
- Impacts to customers depend on the outcome of the cost allocations, changes to the rate structures, and/or the total revenue needs of the District to fund water and wastewater service
- The consultant and District staff will develop a series of customer impact graphics to illustrate effects of any proposed changes

BALANCING COMPETING OBJECTIVES



RATE STUDY AT A GLANCE

Rate Setting Framework

- Financial goals and policies
- Pricing objectives

Financial Plan

- Evaluation of CIP and financing options
- Cash flow analysis for financial sufficiency

Cost of Service & Rate Design

- Cost allocations
- Rate design
  - Rate calculations
  - Customer impact analyses

Final Rate Adoption

- Report
- Prop 218 Notice
- Public Hearing

PROPOSITION 218 REQUIREMENTS

» An agency cannot collect revenue beyond what is necessary to provide service

» Revenues derived by the charge shall not be used for any other purpose other than that for which the charge was imposed

» **The amount of the fee may not exceed the proportional cost of service for the parcel**

» No charge may be imposed for a service unless that service is actually used or immediately available to the owner of property

» A written notice of the proposed charge shall be mailed to the record owner of each parcel at least 45 days prior to the public hearing, when the agency considers all written protests against the charge

Cost of Service Allocation

WHAT IS COST OF SERVICE?

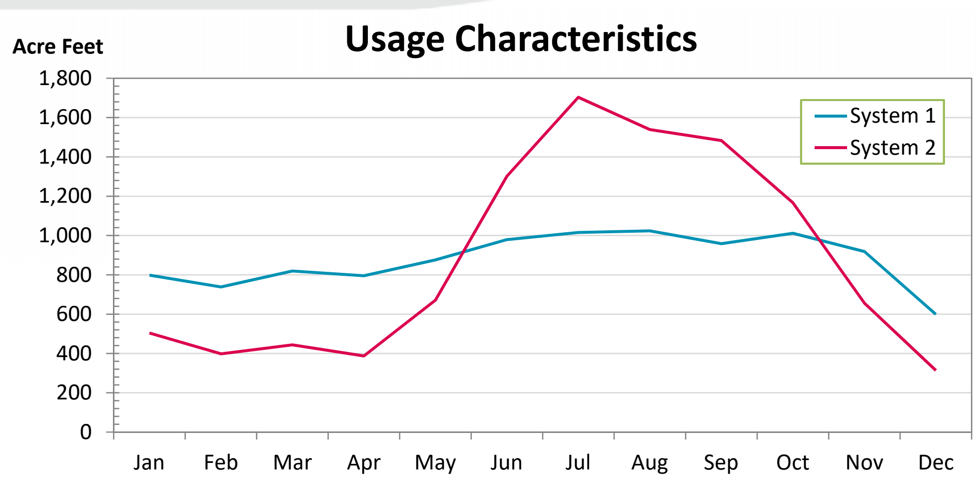
- » Method to recover costs from users in proportion to their use of the system, recognizing the impact of each class on system facilities and operations
  - › A cost-based process of converting revenue requirements into unit costs
  - › Allocation of cost of service to customer classes is based on customer usage characteristics
- » Cost of service is the fundamental benchmark used for establishing utility rates in the United States

WHAT IS COST OF SERVICE?

Rationale:

- Different types of customers generate different costs because their patterns unique demand characteristics (unique cost of service)
- Cost of service allows the matching of the rates charged to each group with the cost incurred to serve them
- Each group will “pay its own way”; no subsidies

WATER SYSTEM COSTS AND PEAKING DEMAND



Both water systems have annual demand of approximately 10,500 AF / year.

Which water system requires larger facilities/infrastructure?

IMPORTANCE OF CUSTOMER CLASS PEAKING FACTORS

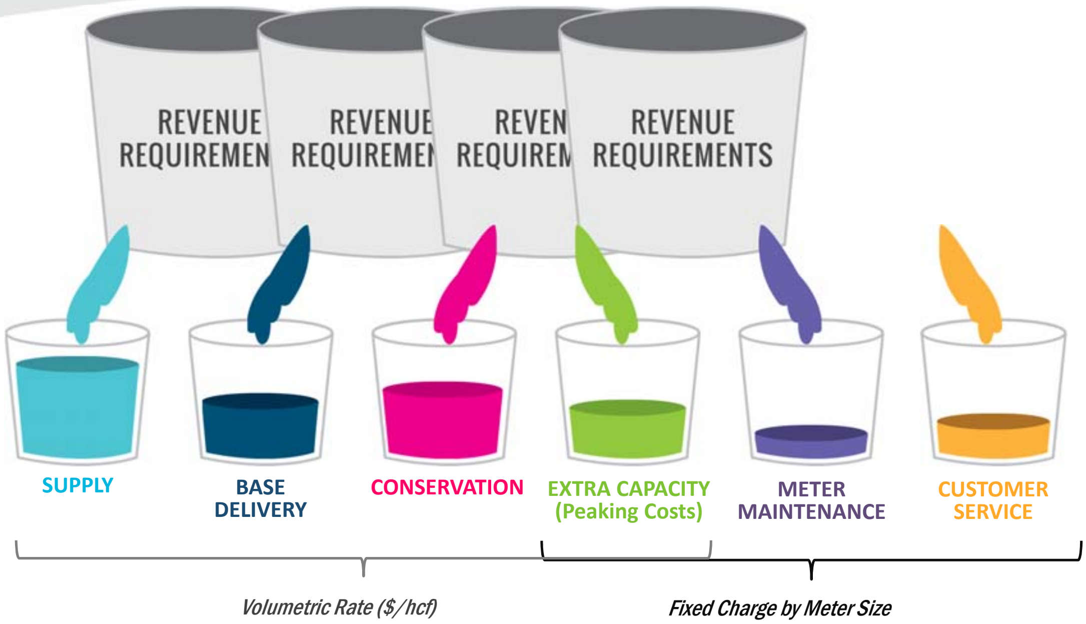
- **Peaking factors:**
  - Indoor Use: non-peaking
  - Outdoor Use: high peaking factors
  - Commercial / Industrial: low peaking factor
- **Peaking factors by customer classes**

COST OF SERVICE ALLOCATION PROCESS
AWWA MANUAL M1 SEVENTH EDITION

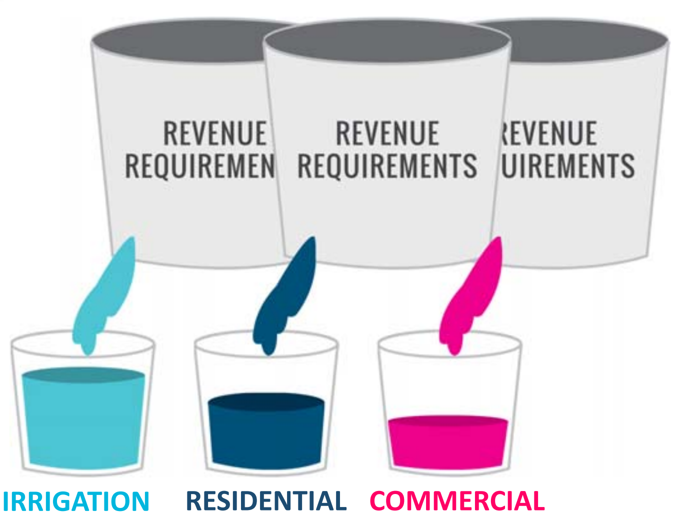
- Revenue requirement
- Functionalize revenue requirement
- Allocate to cost components
- Distribute revenue requirements to customer classes
  - Customer class peaking factors
  - Units of service
  - Unit cost of service
  - Customer class units X costs = Revenue Requirement

COST OF SERVICE EVALUATION

Allocation to Cost Components



STEP 5: DISTRIBUTION OF SYSTEM COSTS TO CUSTOMER CLASSES



LAST STEPS OF WATER RATE STUDY

Report Development

- Document the study and justifications for the rates
- Convey the rationale behind the rates to customers
- Connect the budget with the rates and show the math from start to finish

Public Outreach

- Proactive outreach and messaging to inform customers about the new rates

Implementation

- Develop phase-in implementation strategy
- Test billing system
- If necessary, train customer support staff about new rates

STUDY SCHEDULE

Cost of Service Study Schedule	Date/Period
Project Kickoff	January 2020
Staff Meeting - *review financial plan*	February 18, 2020
Finance Committee Meeting - *review study objectives, methodology, and community outreach present*	February 21, 2020
Board Meeting - *review study objectives, methodology, and community outreach presentation*	February 25, 2020
Community Advisory Committee Meeting - *review study objectives and methodology*	Week of March 2, 2020
Staff Meeting - *review COS analysis*	March 4, 2020
Finance Committee Meeting - *review draft of study*	March 6, 2020
Board Meeting - *review draft of study*	March 10, 2020
Community Advisory Committee Meeting - *review draft of study*	Week of March 16, 2020
Board Meeting - *present final draft of study / prepare draft Prop 218 Notices*	March 24, 2020
Board Meeting - *approve Prop 218 Notices*	April 14, 2020
Mail Prop 218 Notices	April 15, 2020
45-Day Notice Period Complete	May 30, 2020
Public Hearing	June 9, 2020
Consideration for Adoption of Rates	June 23, 2020

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 4

To: Honorable President and Members of the Board of Directors February 25, 2020

From: David S. Gould. P.E. – District Engineer

Subject: **Amendment to Contract for Professional Services for the 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 – Consideration and motion to authorize the General Manager to amend the professional service agreement with Cannon Corporation for additional professional services related to the installation of a new emergency electrical generator at the La Granada wastewater lift station at a cost not to exceed $51,966 and to find said project exempt from the provisions of the California Environmental Quality Act (CEQA).

BACKGROUND:

CVWD has an existing wastewater lift station located at 1901 La Granada Way that is located within the Glenhaven Park and provides sewer collection service for about 30 homes. The wastewater lift station has a capacity of 3,000 gallons and the pumps typically run about an hour a day to push wastewater into the collection system.

In case of an emergency, when electrical power is lost, the lift station can hold wastewater for about 2 – 5 hours, depending on the time of day or night, before the wet-well will overflow. To prevent a sewer overflow, alarms have been set to alert the Director of Operations, via text and phone of the potential overflow. However, there could be a time lag between when personnel are first alerted of the power outage to the time the portable emergency electrical generator is brought to the site, which could result in a sewer overflow.

Staff has been planning to install a permanent emergency electrical generator at the lift station with an automatic transfer switch as part of CVWD's continuing effort for emergency planning and prevention of sewer overflows. This project was included in the FY 19/20 Wastewater Capital Improvement Project budget. The new system will be able to switch to emergency power automatically during a power outage so that the wastewater pumps will remain in service. The system will include alarms which will alert staff of the problem and when the emergency electrical generator goes into service.

The project will also include the installation of a concrete pad for the emergency electrical generator, fencing around the generator, and electrical work to connect to a new electrical panel.

DISCUSSION:

Staff started working with Cannon Corporation (Cannon) in 2017 on the design of the project at a cost of $19,822. Cannon had completed the design, however, permitting issues with the City of La Canada Flintridge (LCF) and CVWD's staff limited availability resulted in the project being put on hold.

Staff recently met with Cannon regarding completing the design and providing additional professional services for the permitting with LCF, assisting CVWD with the public outreach, revising the construction plans and specifications based on comments from CVWD and LCF and amending the scope of work to include the contractor providing the emergency electrical generator and permitting from AQMD as shown on the attached proposal from Cannon.

In addition, Cannon contacted LCF about permitting issues prior to submitting their proposal and LCF's staff was not sure if the park was owned by LCF or Los Angeles County, therefore, staff requested Cannon to determine the ownership.

This project was a budgeted project as part of the FY 19/20 Wastewater Capital Improvement Project (CIP) program. Staff's goal is to complete the design and permitting for project within the next 3 months and construction to begin in September 2020 depending on the lead time for the new electrical generator as shown below:

<u>Project Schedule:</u>

- 2/24/20 – Award amendment to contract to Cannon
- 3/6/20 to 5/20/20 – Complete design and permitting issues with LCF
- 4/13/20 to 5/13/20 – Public outreach and community meeting
- 5/26/20 – Advertise for Bids
- 6/17/20 – Bid Opening
- 6/23/20 – Award Contract
- 7/15/20 to 9/15/20 – Shop drawings and fabrication
- 9/28/20 – Start Construction
- 11/6/20 – End Construction

The construction cost estimate for the project is $87,000 and the entire project costs including materials, soils engineer, staff engineering and inspection, and contingencies are estimated at $130,000, which will be included in the FY 20/21 Wastewater CIP budget.

<u>RECOMMENDATION:</u>
It is staff's recommendation to authorize the General Manger to amend the professional service agreement with Cannon Corporation for additional professional services related to the installation of a new emergency electrical generator at the La Granada wastewater lift station at a cost not to exceed $51,966.

<u>ENVIRONMENTAL REVIEW</u>:
This project is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines - Class 1 consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination

<u>FUNDING AVAILABILITY</u>:
There are sufficient funds available in the following account for the project:

Account Description	Amount
FY 19/20 Wastewater CIP Program – Lift Station	$75,000
Additional Professional Services - Cannon	<$51,966>
Amount Remaining in Wastewater CIP Program – Lift Station	**$24,034**

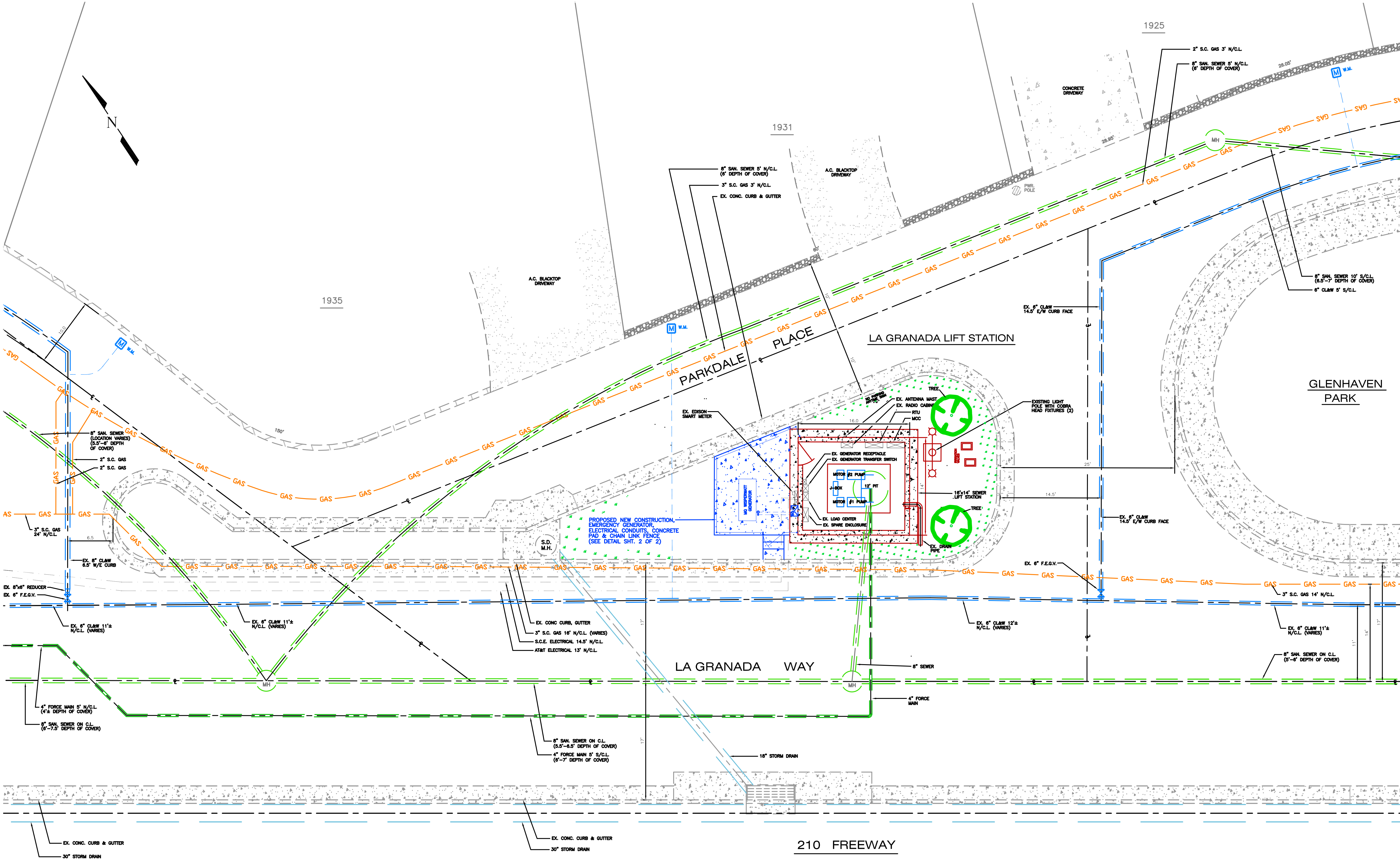
Prepared by:

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

Submitted by:

Nem Ochoa
General Manager

Attachments:
1. Project Map
2. Cannon Proposal dated 2/14/2020



DISCLAIMER

Approval by C.V.W.D. does not constitute a representation as to the existence and location of underground utilities, structures, and conditions within the limits of this project.

SCALE: 1: 6'	DATE
DRAWN BY: J. HUERTA	10/9/14
CHECKED BY: D.S. GOULD	12/8/14
APPROVED: D.A. ERDMAN	12/8/14
AS BUILT:	

CRESCENTA VALLEY WATER DISTRICT CVWD

GENERATOR & PAD INSTALLATION

LA GRANADA SEWER LIFT STATION

SITE PLAN – LA GRANADA WAY AT PARKDALE PLACE

SHT. 1 OF 2 SHTS.

COMPLETION DATE:

LINEAR FT.

JOB NO. E-000

FILE NO. 001

USER

REVDATE

FNAME

February 14, 2020

Mr. David S. Gould, P.E.
District Engineer
Crescenta Valley Water District
2700 Foothill Boulevard
La Crescenta, CA 91214

PROJECT: LA GRANADA LIFT STATION – EMERGENCY ELECTRICAL GENERATOR, PROJECT S-962

ADDITIONAL SERVICE AGREEMENT

Dear Mr. Gould:

This proposal is in response to the February 6, 2020 meeting between Crescenta Valley Water District (CVWD) and Cannon, to discuss the direction CVWD wants to take in completing the La Granada Lift Station – emergency electrical generator. It is our understanding that CVWD wishes to complete this project with Cannon, completing the plan check management, permitting, and community outreach. Cannon's responsibility is to augment CVWD staff in completing the project through advertising for bidding. We also understand that CVWD wants the design to include updating additional electrical equipment in the lift station.

Cannon completed and submitted the 90% design package for the new generator in July 2017. Shortly after that submittal we received comments from CVWD that originated from the City of La Canada Flintridge (City). At that time, CVWD put a hold on the project.

After the February 6, 2020 meeting, Cannon contacted the City and asked for the requirements for approval of this project. We also sent the 90% plans to the City for their information to give them the scope of the project. The response was an email from the Director of Public Works, City of La Canada Flintridge on February 13, 2020. The email indicated that there was some confusion concerning ownership of the land that the lift station is sitting on. The owner of land could either be Los Angeles County Department of Parks and Recreation (County) or the City. Upon searching the County Webb site, the Glenhaven Park is not listed as a park in the County park system. Copy of the La Canada Flintridge email is attached.

The scope of work is as follows:

1. Determine Ownership of the Parcel
    a. To determine ownership, Cannon will order a Grant Deed and Title Report for the parcel.
    b. Review the title report and order referenced documents.
    c. Determine CVWD's right to the property.
2. Plan Check Management
    a. Scope include meeting with officials at the County/City to determine the requirements for approval of the project.
    b. Incorporating requirements into the plan and specifications.
    c. Submit to the County/City.

   d. Meet with the County/City to review their submittal comments.
   e. Meet with CVWD to review the comments received from the County/City and respond to the County/City as directed by CVWD. Cannon will respond to the County/City with comments on the requirements and incorporate the County/City's comments into the plans and specifications.
   f. Cannon will provide plans to the local fire authority for review. Any comments based on this review will be incorporated into our final plans.
3. Permits
   a. Preparing applications for County/City required permits and obtaining the approval of the permits. CVWD will pay all permit fees.
   b. The generator will require an Air Quality Management District permit. This permit will be the responsibility of the generator manufacture.
   c. Based on a review of the City noise ordinance, it seems there is an exception for noise mitigation at the property line for emergency backup generators; therefore we assume the generator will not need sound attenuation above what is generated by a standard weatherproof, sound attenuated enclosure. If the City states that additional sound attenuation is required than what is assumed, then a change in the contract will be necessary for additional research and design.
4. Public Outreach
   a. Provide one public outreach meeting at the project site. Includes coordinating a date and time and sending notices of the meeting to residences within a 500-foot radius of the project.
5. Design Changes due to County/City comments and CVWD
   a. Provide survey base map.
   b. Provide a wrought iron fence with screening in lieu of the chain-link fence around the new generator.
   c. Provide elevation drawings showing the site side views (North/South, East/West).
   d. Additional required revisions.
   e. Provide size and design of generator including specifications.
   f. Provide a design for the upgrade of the existing motor control panel.
   g. The 90% submittal was made in July 2017. These plans will be revised with all the requested changes and resubmitted for review.
   h. After CVWD review Cannon will schedule a submittal review meeting to review the comments.
   i. Considering the review comments, Cannon will proceed to the Final Plans, Specifications, and Opinion of Probable Construction Cost.
6. Bidding Period Services
   a. Provide complete bid package for advertising in electronic form to interested contractors.
   b. Respond to Request for Information (RFIs) during the bidding process. Issue Addendums if required.
   c. Review final bids and make recommendations to CVWD for award of the construction contract.

We are assuming that the CEQA requirements for this project will be Categorically Exempt. Cannon will assist CVWD in filing the exemption.

The estimated schedule to complete the Scope of Work is attached. The schedule is dependent on the responsiveness of the County/City.

Cannon

We will complete the above scope of work and a time and material basis for an estimate fee of $51,966 per the attached fee schedule. The fee quoted in this proposal is valid for 60 days from this date and are based upon the current agreed upon fee schedule and California prevailing wages.

Sincerely,

Gary D. Roepke

Gary D. Roepke, PE
Senior Principal Engineer, Public Infrastructure Division
C 48693

Fee Schedule
Crescenta Valley Water District
LA GRANADA LIFT STATION – EMERGENCY ELECTRICAL GENERATOR,
PROJECT S-962

		Cannon																				
		Principal In Charge		Civil Senior Principal		Survey Techician VI		Principal Structural		Sr. Principal Electrical		Electrical Project		Associate Civil		SR. Principal		Administrative			Total	
		Engineer		Engineer		Surveyor		Engineer		Engineer		Engineer		Engineer		Designer		Assistant		Reimbursibles		
	Hourly Rate	$213		$213		$160		$172		$198		$135		$165		$120		$62		Lump Sum		
Task		Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Cost	Hrs	Cost
1	Determine Ownership of the Parcel			8	$1,704	16	$2,560											2	$124	$1,650	26	$6,038
2	Plan Check Management			16	$3,408									32	$5,280			8	$496	$100	56	$9,284
3	Permits			8	$1,704					2	$396	4	$540	8	$1,320			4	$248	$100	26	$4,308
4	Public Outreach			16	$3,408					10	$1,980			12	$1,980			16	$992	$200	54	$8,560
5	Design Changes Due to County/City Comments and CVWD	4	$852	12	$2,556	4	$640	10	$1,720	12	$2,376	40	$5,400	16	$2,640	24	$2,880	8	$496		130	$19,560
6	Bidding Period Services			4	$852					2	$396	4	$540	12	$1,980			4	$248	$200	26	$4,216
	Totals	**4**	**$852**	**64**	**$13,632**	**20**	**$3,200**	**10**	**$1,720**	**26**	**$5,148**	**48**	**$6,480**	**80**	**$13,200**	**24**	**$2,880**	**42**	**$2,604**	**$2,250**	**318**	**$51,966**

Reimbursables

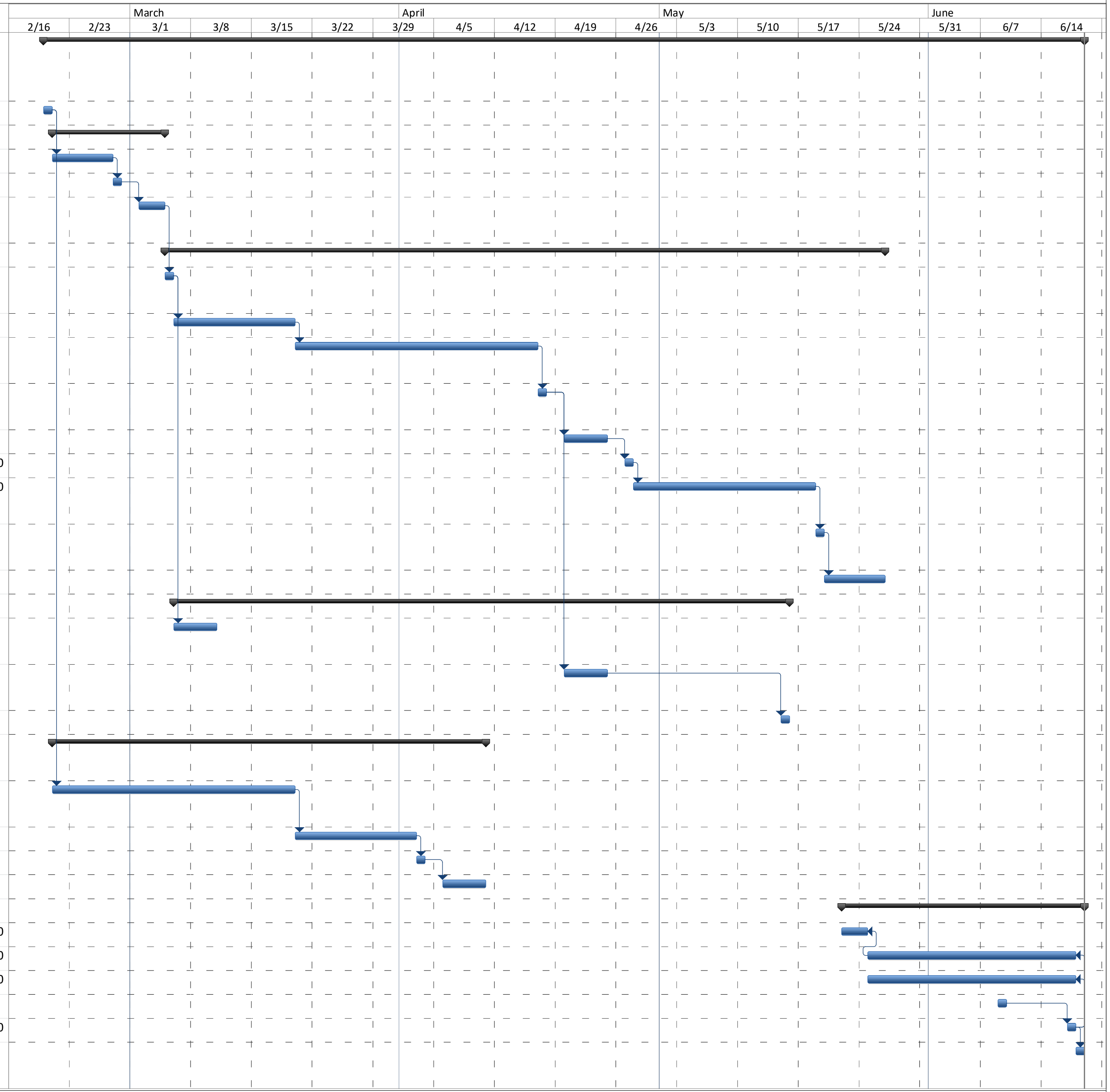
Cannon's expenses incurred in connection with this Proposal as follows:

a) incidental and out-of-pocket expenses including but not limited to:
costs for postage, shipping, overnight courier, reproduction services, plotting, photocopies, parking fees and tolls

b) travel expenses

Project Schedule
Crescenta Valley Water District
La Ganada Lift Station Emergency Generator

ID	Task Name	Duration	Start	Finish
1	**La Granada Lift Station – Emergency Electrical Generator, Project S-962**	**86 days**	**Thu 2/20/20**	**Thu 6/18/20**
2	Notice Proceed	1 day	Thu 2/20/20	Thu 2/20/20
3	**Determine Ownership of the Parce**	**9 days**	**Fri 2/21/20**	**Wed 3/4/20**
4	Order Grant Deed and Title Repor	5 days	Fri 2/21/20	Thu 2/27/20
5	Review Title Report	1 day	Fri 2/28/20	Fri 2/28/20
6	Determine CVWD's right to the property	3 days	Mon 3/2/20	Wed 3/4/20
7	**Plan Check Management**	**59 days**	**Thu 3/5/20**	**Tue 5/26/20**
8	Meeting with County/City to determine requirements	1 day	Thu 3/5/20	Thu 3/5/20
9	1st Submittal to County/City	10 days	Fri 3/6/20	Thu 3/19/20
10	Receive comments from County/City	20 days	Fri 3/20/20	Thu 4/16/20
11	Meet with CVWD to review comments	1 day	Fri 4/17/20	Fri 4/17/20
12	Incorporate comments into plans	5 days	Mon 4/20/20	Fri 4/24/20
13	2nd Submittal to County/City	1 day	Mon 4/27/20	Mon 4/27/20
14	Receive comments from County/City	15 days	Tue 4/28/20	Mon 5/18/20
15	Meet with CVWD to review comments	1 day	Tue 5/19/20	Tue 5/19/20
16	Final Submittal/Permit Approved	5 days	Wed 5/20/20	Tue 5/26/20
17	**Public Outreach**	**51 days**	**Fri 3/6/20**	**Fri 5/15/20**
18	Obtain list of residence within 500' of the project	3 days	Fri 3/6/20	Tue 3/10/20
19	Send out invitation for the Public Outreach meeting	5 days	Mon 4/20/20	Fri 4/24/20
20	Public Outreach Meeting	1 day	Fri 5/15/20	Fri 5/15/20
21	**Design Changes Due to County/City Comments and CVWD**	**36 days**	**Fri 2/21/20**	**Fri 4/10/20**
22	Revise 90% Submittal with new design elements	20 days	Fri 2/21/20	Thu 3/19/20
23	CVWD Review Period	10 days	Fri 3/20/20	Thu 4/2/20
24	Submittal Review Meeting	1 day	Fri 4/3/20	Fri 4/3/20
25	Final Submittal	5 days	Mon 4/6/20	Fri 4/10/20
26	**Bidding Period Services**	**20 days**	**Fri 5/22/20**	**Thu 6/18/20**
27	Advertize for Bids	1 day	Fri 5/22/20	Mon 5/25/20
28	Bidding Period	18 days	Mon 5/25/20	Wed 6/17/20
29	Respond to RFIs	18 days	Mon 5/25/20	Wed 6/17/20
30	Prebid Meetig	1 day	Tue 6/9/20	Tue 6/9/20
31	Receive Bids	1 day	Wed 6/17/20	Wed 6/17/20
32	Evaluate Bids and Make Recommendation for Award	1 day	Thu 6/18/20	Thu 6/18/20



Project: 20200214 Project Schedu
Date: Fri 2/14/20

Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Deadline
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Progress

Gary D. Roepke

From: Patrick DeChellis <pdechellis@lcf.ca.gov>
Sent: Thursday, February 13, 2020 11:45 AM
To: Tina Kuah
Cc: Gary D. Roepke; Linda Baragona; Susan Koleda; Carl Alameda
Subject: RE: permit to install generator next to Glenhaven Park
Attachments: 170402 - La Crescenta - Granada Lift Station ELEC.pdf

Ms. Kuah, sorry for the delay in responding to your request below. The difficulty in responding is that we found records that indicate the property is owned by the County Department of Parks and Recreation (per the assessor map for the area and the City's GIS).

The first thing that needs to be determined is ownership of the property.

If it is the County:

1. Before any City review, you will need to provide County approval of the proposed improvements.
2. City review would be limited to visual impacts to the nearby residents, security, and AQMD permits for operation of the generator.

If the property has been transferred to the City:

1. Review/approval from Community Development Department for building on City property.
2. Building permit would be required.
3. AQMD permits for operation of the generator.
4. Review and mitigation of the visual impacts to the nearby residents and security.
5. Agreement/lease to use City property.

Let me know if you have any follow-up questions.

PATRICK DeCHELLIS | DIRECTOR of PUBLIC WORKS | CITY of LA CAÑADA FLINTRIDGE
One Civic Center Drive | La Cañada Flintridge, CA 91011
pdechellis@lcf.ca.gov
T: 818-790-8882

From: Tina Kuah <TinaK@CannonCorp.us>
Sent: Thursday, February 6, 2020 2:51 PM
To: Linda Baragona <lbaragona@lcf.ca.gov>
Cc: Patrick DeChellis <pdechellis@lcf.ca.gov>; Vincent Tran <vtran@lcf.ca.gov>; Gary D. Roepke

<garyr@CannonCorp.us>
Subject: RE: permit to install generator next to Glenhaven Park

Hello Linda,

Yes, we are looking for details on your permitting process and any other requirements that the City may have for this Emergency Generator Project. I've attached the plans on the installation of the generator. Crescenta Valley Water District has asked us to provide permitting services for this project so I would like to get an idea of what your permitting process and requirements are such that I can prepare a proposal. The new emergency electrical generator will be located at the La Granada Wastewater Lift Station near the Glenhaven Park. This new permanent generator will keep the lift station in operation during a power failure and prevent potential sewer overflow.

Thank you and I look forward to your comments. Please feel free to call or email me with any additional questions.

Tina

Tina Kuah, P.E.
Civil Associate Engineer

Cannon
11900 West Olympic Blvd, Suite 530, Los Angeles, CA. 90064
T 310.382.5134
C 310.633.4916
F 310.382.5163 E tinak@CannonCorp.us
Cannon | Facebook | Twitter | LinkedIn

From: Linda Baragona <lbaragona@lcf.ca.gov>
Sent: Thursday, February 6, 2020 2:29 PM
To: Tina Kuah <TinaK@CannonCorp.us>
Cc: Patrick DeChellis <pdechellis@lcf.ca.gov>; Vincent Tran <vtran@lcf.ca.gov>
Subject: permit to install generator next to Glenhaven Park

Hi Tina,

You called to ask for information on
A permit to do the following:

Install an emergency generator next to Glenhaven Park.
Next to the lift station.

You said CV Water is asking you for proposal for the work.
You also mentioned that Planning Dept. referred the call to us
Although they said they are uncertain if this is a Building Permit or
A Public Works Permit.

Can you go ahead and write us back with more details as well

As the plan you said you had available.

And, also make sure to have exact location.

Thank you,

Reference: Tina 310-382-5134/Cannon Corp.

Linda Baragona
City of La Cañada Flintridge
One Civic Center Dr.
La Cañada Flintridge, CA 91011
818-790-8882
lbaragona@lcf.ca.gov
website: cityoflcf.org

[EXTERNAL EMAIL]

CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report
February 25, 2020

To: Honorable President and Members of the Board of Directors

From: Nem Ochoa, General Manager

Subject: **General Manager Report**

General Managers Report Topics:

- GM Activities

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

- MWD Hydrology Update

STAFFING

As of February 21^{st} the District has gone 94 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

FMWD Managers Meeting - February 12^{th}
Meet with Town Council President - February 14^{th}
Finance Committee Meeting - February 21^{st}
Engineering Committee Meeting - February 21^{st}
Meeting with Clean Power Alliance - February 21^{st}
Management Staff Meetings - February 18th, February 24^{h}

Submitted by:

Nem Ochoa
General Manager

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

Agenda for the Meeting of the Engineering Committee
of the Crescenta Valley Water District
To be held on

February 21, 2020 at 9:30 AM

Posted February 20, 2020 at 9:00 AM

Call to Order

Adoption of Agenda

Information Items

1. Review the Long-Term Capital Improvement Project Program
2. FY 19/20 – Capital Improvement Project Program – Status
   - Emergency Electrical Generator at La Granada Wastewater Lift Station
   - Replacement of Pump and Motor Assembly for Glenwood Boosters 32 & 33

Public Comments

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.

Committee Member's Request for Future Agenda Items

Next Engineering Committee Meeting – March 13, 2020

Adjournment

g:\engineering committee\agenda\2020\022120 eng com agenda com.docx

Crescenta Valley Water District

Long-Term

Capital Improvement Project

Program Summary

February 2020

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

Well Rehabilitation

- Maintain CVWD's existing groundwater well production through annual well rehabilitation to meet annual adjudicated rights of 3,294 ac-ft.
- Rehabilitate each well at least 1 or 2 times over the next 9 years depending on well efficiency and water levels as shown on the schedule.
- Estimate a 2% to 3% annual increase in well production at current conditions after cleaning and chemical treatment of well casings, development of the aquifer, and replacing pump and motors assemblies.
- Increases in well production will vary depending on annual rainfall and stormwater recharge into the Verdugo Basin.
- Estimate for construction costs are $145,000 per well including design and construction management by outside consultant, private contractor and materials.
- Average payback period for well rehabilitation based on avoided costs for purchasing imported water is about 8 to 11 months.

CVWD - 10-yr Well Replacement Project
FY 20/21 - FY 30/31

Well No.	Last Rehab Date	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29	FY 29/30	FY 30/31	Total
1	2019					X						X	2
2	2019			X				X					2
5	2018				X					X			2
6	2004												0
7	2019						X					X	2
8	2016				X						X		2
9	2014	X					X						2
10	2017								X				1
11	2015					X				X			2
12	2014		X						X				2
14	2012	X					X						2
15	2006												0
16	2016					X					X		2
18	2023			X					X				2
Total		2	1	2	2	3	3	1	3	2	2	2	23

Crescenta Valley Water District			
Groundwater Well - Years in Service			
Well No.	Date Well Drilled	Casing Diameter	Years in Service
1	1931	16"	89
2	1927	14"	93
5	1949	20"	71
6	1949	20"	71
7	1930	16"	90
8	1951	16"	69
9	1945	20"	75
10	1945	20"	75
11	1946	20"	74
12	1948	16"	72
14	1950	16"	70
15	2000	12"	20
16	2011	12"	9
Average Age Wells 1 - 14			77

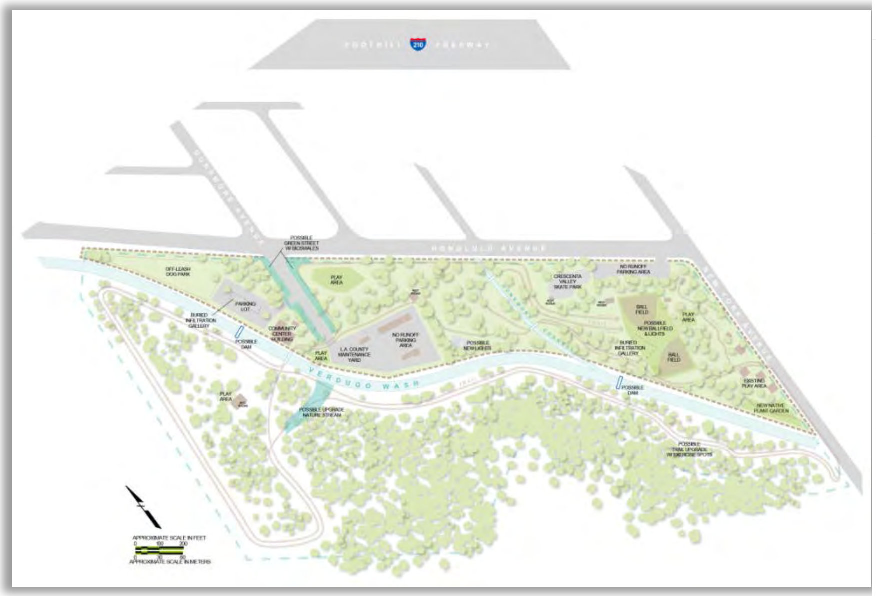
New Groundwater Wells

- Most of CVWD's groundwater wells were installed from 1927 to 1950.
- Well Nos. 1 – 14 beyond their useful life expectancy of 50 years for steel casing.
- Install new Well 18 & housing on Sycamore Ave to replace Well 10 at Glenwood Plant.
- Estimated construction cost for design $175,000 and construction $2.6M.
- Payback period for a new well, based on capital costs, operations & maintenance costs and avoided costs for purchasing imported water, is between 13 to 15 years.
- New Well 19 to be construction at the best location as recommended from the Groundwater Well Replacement Study discussed below.

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

Groundwater Basin Recharge

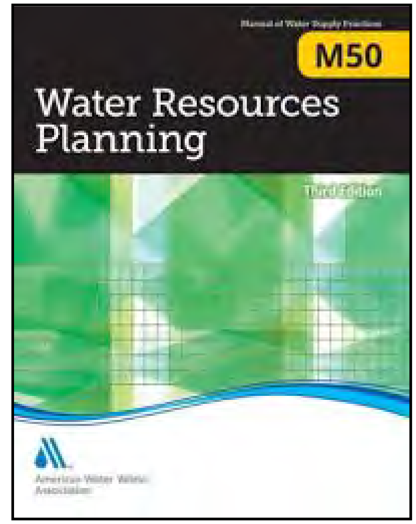


- Stormwater Recharge Project at Crescenta Valley County Park (CVC Park).
- Design and install a stormwater infiltration system within CVC Park that will direct stormwater from the Verdugo Wash into infiltration galleries for groundwater recharge.
- Feasibility Study indicated about 500 ac/ft per year could be infiltrated into the Verdugo Basin with about 85% captured by CVWD's wells.
- Stormwater recharge would reduce the fluctuation of water levels during wet and dry rainfall seasons, and
- Allow for capture of stormwater in the Crescenta Valley before going to the Los Angeles River.
- Stakeholders include City of Glendale, Los Angeles County Department of Public Works and Parks & Recreation, CV Town Council and ULARA Watermaster.
- Estimated costs for planning, $175,000, design $240,000 and construction ranging from $2.4M to $4.8M.
- Potential Grant Funding Availability:
    - Proposition 1 Integrated Regional Water Management (IRWM) Implementation Grant – California Department of Water Resources
    - Proposition 1 Storm Water Grant Program – State Water Resources Control Board – Division of Financial Assistance
    - Proposition W – Los Angeles County
    - Local Resource Program - Metropolitan Water District of Southern California
    - Most grants require 50% matching funds
- Outstanding Issues:
    - Storm Water Rights – City of Los Angeles
    - State Water Resources Control Board – Division of Water Rights Approval
    - CEQA Documentation

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

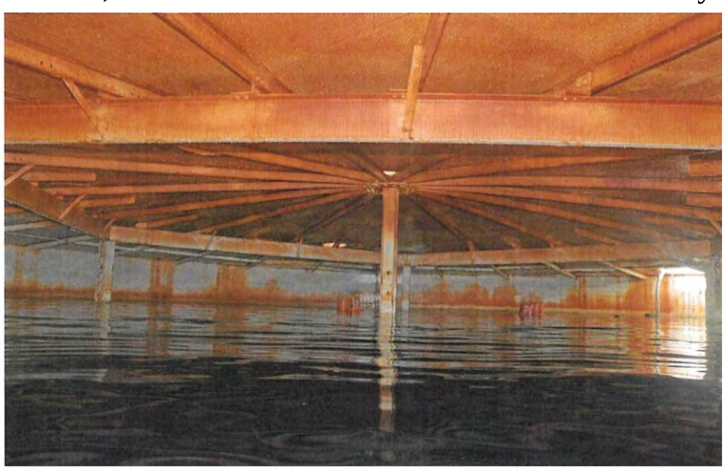
Water Supply Studies



- Water Resource Planning Study - Develop a water resource planning study to ensure a reliable water supply system that will meet the water challenges of today and tomorrow.
- GWP Water Supply Feasibility Study - Feasibility study to determine if CVWD can utilize Glendale Water as a potential water supply.
- Verdugo Basin Groundwater Model - Update the 2006 Groundwater model with updated data and to utilize the model for predict groundwater trends into the future.
- Groundwater Well Replacement Study - Study to locate potential sites within the Verdugo Basin to drill new water production wells.
- Groundwater Pilot Hole Study – Drill 4-inch diameter pilot holes in areas defined by the Groundwater Well Replacement Study for geological information, depth to water table and potential new water production wells.

Steel & Concrete Reservoir Re-Coating & Rehabilitation

- CVWD's goal is to maintain or improve conditions of the existing reservoirs to sustain the longevity of the water storage system which is between 35 years to 71 years old as shown in the table.
- Steel Reservoirs – re-coat at least one (1) steel reservoir site per year until FY 28/29.
- Concrete Reservoirs – inspection and rehabilitation of concrete reservoirs
- Rehabilitation includes repairing structural members in the roof, steel columns and the roof shell, removal of coal-tar enamel on floor and safety modifications (i.e. new exterior stairs)
- Estimated cost based on previous projects and the overall size of the reservoir. (i.e. 0.5MG tank – approximately $480,000)

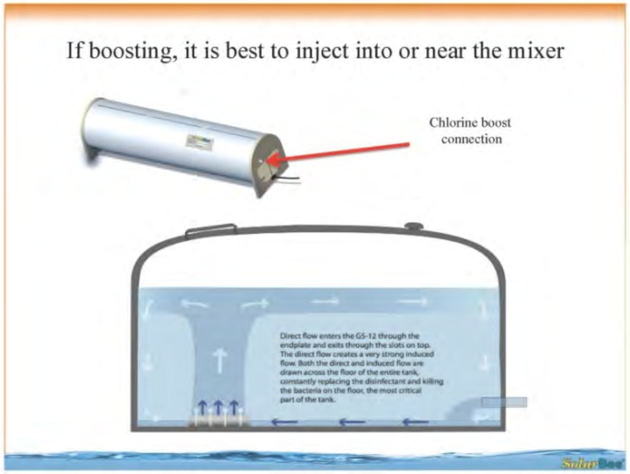


Crescenta Valley Water District
Reservoir Inventory

Site	Zone	Capacity (MG)	Material	Year Installed	Year In Service
Rosemont	3	0.50	Steel	1949	71
Markridge	5	0.50	Steel	1951	69
Goss Canyon #1	6	0.42	Steel	1954	66
Dunsmore	7	0.42	Steel	1954	66
Edmund #1	9	0.50	Concrete	1956	64
Oak Creek #1	4	1.60	Steel	1958	62
Goss Canyon #2	6	0.50	Steel	1961	59
Oak Creek #2	4	0.50	Steel	1961	59
Eagle Canyon	5	1.50	Steel	1961	59
Pickens Canyon	11	0.50	Steel	1962	58
Cresta Heights # 2	8	0.50	Steel	1965	55
Edmund #2	9	0.50	Steel	1966	54
Cresta Heights # 1	8	0.50	Steel	1966	54
Shields	10	0.60	Steel	1967	53
Ordunio	2	2.75	Steel	1970	50
Encinal	1	3.00	Concrete	1983	37
Williams	2	3.60	Concrete	1985	35

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary



Steel Reservoir Corrosion Protection System

- Inspection of cathodic protection system – every 5 years
- Replacement of cathodic protection system – FY 26/27
- Estimated Cost is $75,000.

Reservoir Water Quality Mixing System

- Installation of water quality mixing systems including chlorine and ammonia injection systems to maintain chloramine levels in reservoirs and to make disinfection adjustments to prevent nitrification.
- Estimated cost based on quote from manufacturer is between $22,000 and $25,000 per reservoir.

Water Storage Studies

- Reservoir Inlet/Outlet & Overflow Piping Study – Study to review each reservoir site and provide recommendations for upgrading the common inlet/outlets and to review the overflow discharge locations relative to state and local agencies requirements.
- Ocean View #2 Reservoir Feasibility Study – Study to determine the feasibility of constructing a new reservoir, pump station and pipeline to the most northerly area of Ocean View Blvd. The new reservoir will provide water to homes on Ocean View Blvd, which are on the easterly side of Pickens Canyon. This project would eliminate the three (3) pipeline crossings of Pickens Canyon.
- Conditional Assessment of Reservoir – Perform an assessment of CVWD's steel and concrete reservoirs to determine the remaining life expectance and reservoir replacement.

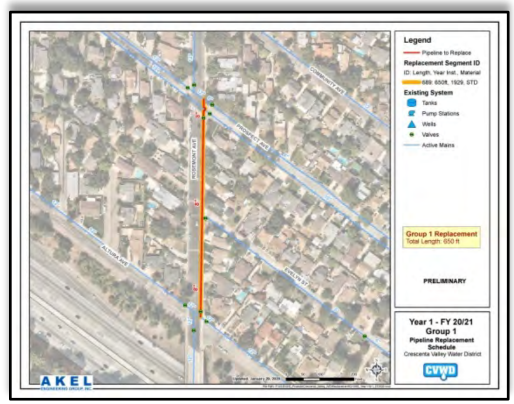
Pipeline Replacement

- Goal is to replace 50-yrs & older pipelines within the next 75-years. Currently about 45% of CVWD's pipelines are 50 years or older.
- CVWD would have to replace about 2 miles a pipe a year for the next 20-years to meet this goal.
- Replacement ranking based on age of pipeline and grouping pipelines within a specific area of the District for ease of construction.
- Pipeline replacement budget based on average cost of $435 per foot, which was established by using previously, completed pipeline costs, current material costs and use of outside consultants for design and construction management.

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

- Year 1 - 4 Pipeline replacement areas within the District
  - Length – 7,645 ft
  - Design – By outside consultant
  - Materials – Purchased by CVWD
  - Contractor – Up to 3 contractors used for construction to complete within FY
  - Cost Estimate - $3.24M



- Year 2 – Length – 10,300 ft; Cost - $4.6M
- Year 3 – Length – 10,800 ft; Cost - $4.9M
- Year 4 – Length – 10,900 ft; Cost - $5.2M
- <u>Year 5 – Length – 10,600 ft; Cost - $5.2M</u>

Total Cost - $23.14M

<u>Annual Pump /Motor Replacement</u>

- Maintain, replace, or upgrade CVWD's 34 booster pumps to meet customer water demands, maximize "water to wire" efficiency and control electrical power usage.

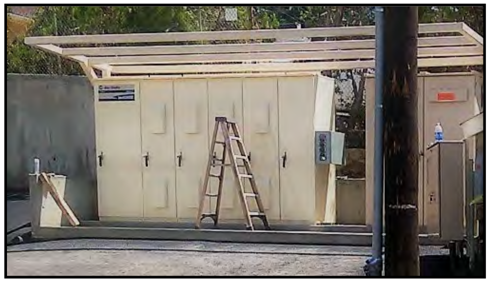
- Replace or repair at least two (2) booster pumps per year based on number of pump hours, pump efficiency, vibrations, and last time pump was repaired/replaced.
- Replace existing motors with premium efficiency motors to decrease power costs.
- Estimated construction cost for one (1) booster replacement based on past projects is about $75,000 per booster pump.

<u>Pump Station and Motor Control Center Upgrades</u>

- CVWD's objective is to upgrade the existing booster pump stations with new buildings to protect the equipment from the environment, increase the life of the booster motors and worker's safety.
- Replace or upgrade the fourteen (14) electrical motor control centers that provide electrical power and controls to booster pumps, maximum the use of new technology to reduce power costs and connections for the District's portable electrical generators to run boosters during a power outage.

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary



- Past experience with the design and construction of the previous MCC, was that design, planning with SCE or Glendale, and ordering equipment will occur during one fiscal year and construction the next fiscal year.
- For planning purposes, the following would be the schedule for six (6) pump station upgrades and replacement of the electrical motor control centers for the next 10-years. The remaining pump stations/MCC centers will be planned for the next 10-years.

Crescenta Valley Water District
Pump Station and MMC Upgrade Schedule

Priority	Location	Pressure Zones From/To	Type of Pump	# of Pumps	Total Capacity (gpm)	Building	Last Date MCC Update	Years in Service 2020	FY for Design	Cost Estimate	FY for Const.	Cost Estimate	Total Cost Estimate
1	Paschall Booster Station	0 to 4	Vertical turbine	2	1,750	No	1980	40	20/21	$170,000	21/22	$1,127,000	$1,297,000
2	Edmund #2 Booster Station	9 to 10	Vertical turbine	2	650	No	1996	24	22/23	$176,000	23/24	$935,000	$1,111,000
3	Cresta Heights Booster Station	8 to 9	Vertical turbine	1	460	No	1997	23	24/25	$182,000	25/26	$1,049,000	$1,231,000
4	Ocean View Booster Station	2 to 3	Vertical turbine	3	2,340	No	1997	23	26/27	$190,000	27/28	$1,160,000	$1,350,000
5	Goss Canyon Booster Station	6 to 9	Vertical turbine	1	575	No	1985	35	28/29	$194,000	29/30	$1,222,000	$1,416,000
6	Rosemont Booster Station	3 to 5	Submersible	1	1,000	No	1998	22	30/31	$196,000	31/32	$1,250,000	$1,446,000
	Total									$1,108,000		$6,743,000	$7,851,000

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

Pressure Reducing Valve Stations

- CVWD's objective is to install pressure reducing valve (PRV) stations within a vault between pressure zones to allow for the movement of water during an emergency event from a higher pressure zone to a lower pressures zone.
- The PRV stations will replace the existing "Zone" valves, which a manual method to flow water between pressure zones. However, a number of the Zone valves have not been operated in over twenty years or more and there is a concern that if a zone valve is opened; it may not be able to close, which can cause increased pressure in a lower zone.
- PRV Station - Zone 2 to Zone 1 near Ramsdell and Mayfield – FY 19/20 calls for the installation of a new PRV station near the intersection of Mayfield Ave and Ramsdell Ave. to provide water from Zone 2 to Zone 1 when Encinal Reservoir is out of service.
- Pressure Reducing Valve (PRV) Station Analysis Study – A study to determine the location and flow requirements to install PRV stations for each pressure zone and review the existing PRV's to determine if they need to be upgraded. The study will include a project schedule and estimated design and construction costs that will be included in the updated 10-year CIP program.

Water Surge Control

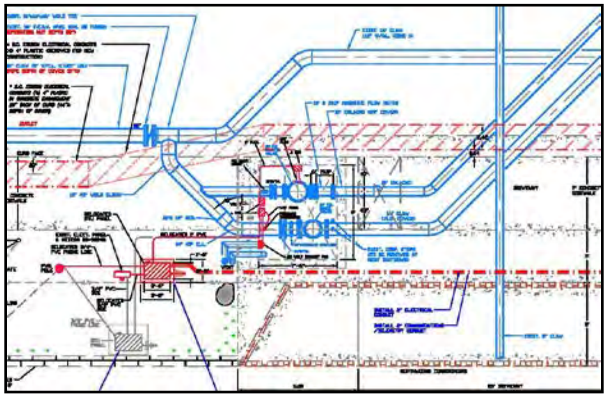
- CVWD's objective is to install and upgrade the water surge suppression system to protect existing booster pumps and pipelines from damage during a water surge condition.
- A water surge condition occurs when there is a sudden loss of power, booster pumps shut off and a wave of water and energy occurs inside the pipe. This wave usually starts at the upstream side of a pressure zone and travels downstream to the booster pump that had just been shut off. The wave speed could generate over 300 psi of pressure inside the pipe, which could burst the pipe or damage the downstream booster pump.
- There are two (2) existing surge protection devices, one at Paschall and the other at Glenwood. The surge protection device at Paschall was installed in 1955 and the device at Glenwood was installed in 1972 and is also out of service.
- The surge protection tank at Glenwood will be replaced in FY 20/21 at an estimated cost of $50,000.

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

- The surge protection tank at Paschall is planned to be replaced in FY 21/22 at an estimated cost of $85,000 as part of the upgrade to the Paschall Booster Station.
- A new surge protection tank at Mills including design and construction are planned for FY 22/23 at an estimated cost of $105,000.

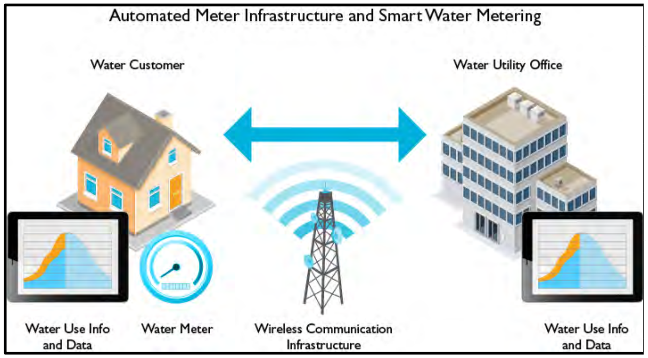
Other Water Distribution Projects:



- Ramsdell/Mayfield Mixing Station – CVWD maintains an underground vault near the intersection of Ramsdell Ave and Mayfield Ave that is used to mix imported water from FMWD and groundwater from the Glenwood plant. The existing piping, valves and controls are in bad condition and need to be replaced.
  - o The majority of the design has been completed by staff and the final design will be completed by an outside consultant at an estimated cost of $45,000 in FY 20/21 and estimated construction cost based on past projects of about $470,000.
- Replacement of Aeration Tower at Mills Plant – the aeration tower, which is used to increase pH in the water, was installed in 1969. The exterior and base of the tower is corroded and needs to be replaced. The estimated cost for design and construction is $75,000.

Water Distribution Studies:

- Pressure Reducing Valve (PRV) Station Analysis Study - A study to determine the location and flow requirements to install PRV stations for each pressure zone and review the existing PRV's if determine if they need to be upgraded. The study will include a project schedule and estimated design and construction costs that will be included in the updated 10-year CIP program
- Energy Use Efficiency Study – A study to review CVWD's energy supply and provide recommendations to increase efficiency and reduce the amount of energy used by the District that utilizes from SCE, GWP or other renewable sources.



- Water Distribution Hydraulic Analysis Study – Continue updating the existing hydraulic model with additional studies on water quality age, chlorination and other studies as requested.

Advanced Metering infrastructure (AMI) System

- CVWD's objective is to install an AMI system within the next five (5) years to replace older meters, decrease water loss, increase efficiencies, increase customer service, outage detection, tamper notification and reduce labor costs as a result of automating reads.

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

- CVWD will also be able to offer new innovative products, flexible billing cycles, leak detection, and on-line water consumption.
- Over 6,200 ¾-inch and 1-inch meters have been replaced with new Sensus Iperl “Smart Meters and about 1,700 more meters need to be installed by a contractor.
- CVWD’s large meters (1-½ to 4-inch meters) need to be upgraded to Master Meter Octave “Smart Meters and installed by a contractor.
- All of CVWD’s Meter Box lids need to be replaced with new meter box lids with end points to connect the smart meter to the AMI communications network.
- Design and installation of an AMI communications network to bring the water meter data from the smart meter to a central data host
- Design and installation of a customer service interface to allow residents to track their water use, pay bills and get helpful information.
- Year 1 – Install AMI communications network and continue with ¾-inch and 1-inch meter replacement
- Year 2 – Install 1-½ to 4-inch meters and meter box lids
- Year 3 – Install AMI customer service interface and continue with installation of meter box lids
- Year 4 – Continue with installation of meter box lids and training for AMI System
- Year 5 – Complete installation of meter box lids and go “Live” with AMI System.

<u>Radio Communication Network for SCADA</u>

- CVWD has an existing radio communication network that works on the 900 MHz radio frequency. In the past year, the radio system has seen interference with other communication devices and the equipment is near the end of its useful life.
- CVWD's objective is design and install an upgraded radio communication network including analysis of available radio frequencies, upgrading radio equipment, creating a redundancy system and increasing efficiency of the network.
- This project will be a one year project to replace the District’s 26 radio devices at an estimated cost of $266,000.

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

Supervisory Control and Data Acquisition (SCADA) System Upgrade

- CVWD has an existing SCADA system with RTU/PLC's installed at each of the District's facilities. The existing system was installed in 1996 by Tesco Controls and the equipment, programing and integration are all proprietary to Tesco.
- CVWD's objective is to design and install an upgraded system such that the equipment, programing and integration are "universal" and can be installed, repaired and/or replaced by different companies.
- This project will be a two year project for the design, new equipment, programing, integration at the District's 26 locations at an estimated cost of $870,000.

New Emergency Electrical Generator

- Design and installation of a permanent emergency electrical generator with automatic transfer switch at CVWD's Mills Plant to operate Well 1, two (2) 150 Hp booster pumps, disinfection system and future nitrate removal treatment plant.

- Estimated Cost for a new emergency electrical generator is $128,000.

Seismic Sensors & Valve Actuators

- Design and installation of seismic sensors and valve actuators system on the inlet and outlet valves of the reservoir to turn the valves during an earthquake event to prevent water from flowing out of the reservoir during a downstream main break.
- The seismic systems are to be installed at Ordunio, Oak Creek, Encinal and Ocean View Reservoirs at an estimated cost of $490,000.

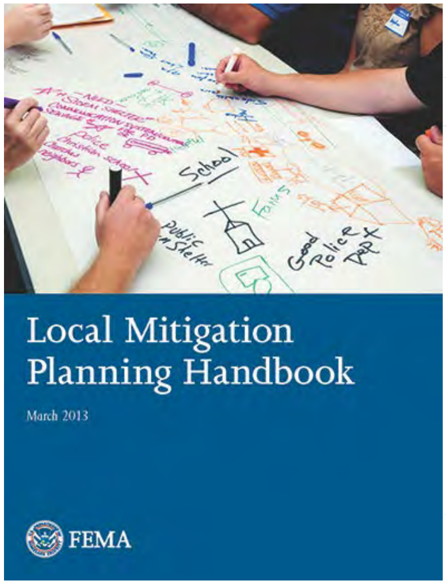
Local Hazard Mitigation Plan - FEMA Grant

- CVWD has applied for a grant from CalOES and FEMA to prepare a Local Hazard Mitigation Plan to address high priority hazards related to its water and sewer systems including drought, water shortage, energy shortage/outage, wildfire, earthquake, terrorim and cyber-attack.
- The Local Hazard Mitigation Plan requires coordination with local, state, and federal agencies, takes the "whole community" approach including non-profits, religious institutions, disability access and functional need groups, experts, or members of the public; and may also include a cross-section of the community, such as residents, community leaders, and business owners.

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

- The Local Hazard Mitigation Plan will identify projects that could be funded through the Pre-Disaster Mitigation (PDM) program which makes Federal funds available to local communities to plan for and implement and sustain cost-effective measures designed to reduce the risk to individuals and property from natural hazards, while also reducing reliance on Federal funding from future disasters.

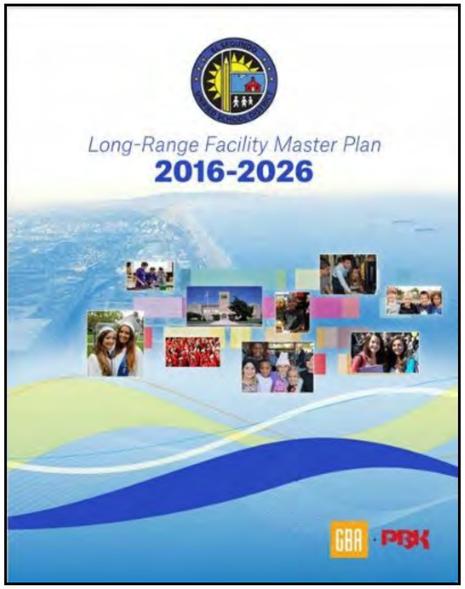


<u>Williams Reservoir Site Evaluation and Improvement Study</u>

- CVWD's objective is to prepare a report based on updated topography, soils investigation and utility research to determine the most effect way to utilize the site for storage of material, cleaning of equipment and accessibility.
- Report will include preliminary site layouts and estimated construction costs to meet the District's needs.
- Project is estimated to be $110,000.

<u>New Roof – Old Encinal Concrete Reservoir for Storage</u>

- CVWD has an existing 70 ft diameter concrete reservoir that is being used for storage of material and equipment with no roof. The material and equipment are exposed to the environment (rain, sun, etc.).
- The District wants to put a permanent roof over the existing structure and utilize the area for storage.
- This project will be a one year project for design and installation of the new roof at an estimated cost of $150,000.



<u>Facilities Maintenance Master Plan</u>

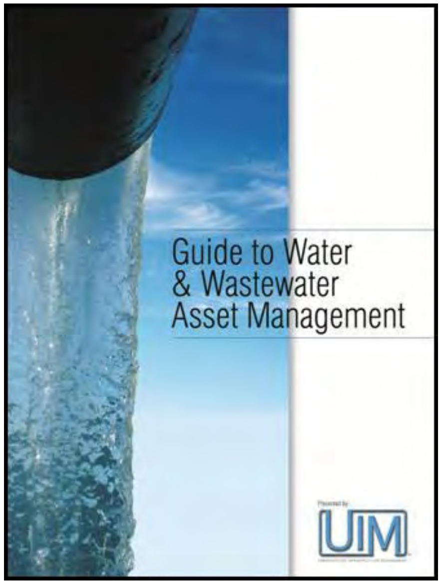
- CVWD's objective is to prepare a facilities maintenance master plan that will evaluate CVWD owned sites with respect to site improvements, roadway improvements, security, accessibility, worker's safety and miscellaneous improvements.
- The master plan will include a recommendation for improvements for each site and a preliminary cost estimate.
- The master plan would not include an evaluation of the reservoirs, booster pumps, motor control center and other large equipment.
- The results of the master plan will provide the District a road map for improving all sites within a 10-year period.
- Project is estimated to be $110,000.

Crescenta Valley Water District

Long Term Capital Improvement Project Program Summary

Asset Management Study:

- CVWD's objective is to prepare an asset management study that can be used to make sure that planned maintenance can be conducted and capital assets (pumps, motors, pipes, etc.) can be repaired, replaced, or upgraded on time and that there is enough funding available.
- Asset management programs with good data—including asset attributes (e.g., age, condition, and criticality), life-cycle costing, proactive operations and maintenance, and capital replacement plans based on cost-benefit analyses—can be the most efficient method of meeting this challenge.
- Project is estimated to be $100,000.



Long-Term CIP Program with Bond Financing Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
1. Water Supply												
A. Groundwater Water Supply												
i. Well Rehabilitation												
Well 16 Rehabilitation	$ 130,800											
Well 11 Rehabilitation	$ 59,200											
Well 9 Rehabilitation		$ 144,000										
Well 14 Rehabilitation		$ 144,000										
Well Rehabilitation (1 or 2 Wells per year)			$ 155,000	$ 160,000	$ 315,000	$ 479,000	$ 495,000	$ 215,000	$ 550,000	$ 340,000	$ 360,000	$ 360,000
ii. New Wells												
Well 18 (Sycamore House) - Design			$ 175,000									
Well 18 (Sycamore House) - Construction				$ 2,600,000								
Well 19 - Design											$ 200,000	
Well 19 - Construction												$ 2,700,000
iii. Groundwater Basin Recharge												
Stormwater Recharge Project at CVC Park - Planning		$ 175,000										
Stormwater Recharge Project at CVC Park - Design					$ 175,000							
Stormwater Recharge Project at CVC Park - Construction						$ 1,000,000	$ 500,000					
B. Imported Water Supply												
C. Recycled Water System												
i. Recycled Water												
Update Recycled Water System Study								$ 100,000				
ii. Membrane Bioreactor Technology (MBR)												
D. Water Supply Studies												
Water Resources Study		$ 45,000										
GWP Water Supply Feasibility Study		$ 15,000										
Update Verdugo Basin Groundwater Model		$ 125,000										
Groundwater Well Replacement Study					$ 125,000							
Groundwater Pilot Hole Study					$ 315,000							
WS Total	$ 194,500	$ 648,000	$ 330,000	$ 2,760,000	$ 930,000	$ 1,479,000	$ 995,000	$ 315,000	$ 595,000	$ 340,000	$ 560,000	$ 3,060,000

Long-Term CIP Program with Bond Financing Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
2. Water Storage												
A. Reservoir Rehabilitation												
i. Steel Reservoir Re-Coating/Roof/Vents Rehabilitation												
Markridge	$ 453,300											
Rosemont		$ 480,000										
Eagle Canyon			$ 740,000									
Edmund #2				$ 500,000								
Goss Canyon #1 & #2					$ 1,100,000							
Shields						$ 550,000						
Dunsmore							$ 600,000					
Cresta Hts #1 & 2								$ 1,250,000				
Pickens Canyon									$ 650,000			
Ordunio										$ 1,256,000		
ii. Concrete Reservoir Rehabilitation												
Encinal				$ 150,000								
Williams (Ocean View)					$ 160,000							
Edmund #1								$ 170,000				
iii. Steel Reservoir Corrosion Protection System												
Cathodic Protection Inspection & Replacement								$ 75,000				
iv. Overflow & Drain System Upgrade												
B. Reservoir Water Quality												
i. Water Quality Mixing System												
Reservoir Mixing System - 8 Reservoirs		$ 179,300										
Reservoir Mixing System - 6 Reservoirs			$ 135,500									
Reservoir Mixing System - 3 Reservoirs				$ 95,000								
ii. Replacement of Common Inlet/Outlet Piping												
C. Water Storage Studies												
Reservoir Inlet/Outlet & Overflow Piping Study			$ 85,000									
Conditional Assessment of Reservoirs Study				$ 115,000								
Ocean View #2 Reservoir Feasibility Study								$ 125,000				
WS Total	$ 453,300	$ 659,300	$ 960,500	$ 860,000	$ 1,260,000	$ 550,000	$ 600,000	$ 1,620,000	$ 650,000	$ 1,256,000	$ -	$ -

Long-Term CIP Program with Bond Financing Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
3. Water Distribution												
A. Pipeline Replacement												
3200 & 3300 Blocks of Brookhill - 1,485 LF	$ 510,000											
4700 & 4800 Block of Pennsylvania - 800 LF	$ 722,136											
Annual Pipeline Replacement - 10,600 LF		$ 3,250,000										
Annual Pipeline Replacement - 10,600 LF			$ 4,750,000	$ 5,004,000	$ 5,150,000	$ 5,200,000	$ 5,356,000	$ 5,517,000	$ 5,883,000	$ 6,060,000	$ 6,218,000	$ 6,405,000
B. New Pipelines												
C. Booster Pump System												
i. Annual Pump /Motor Replacement												
Boosters - Glenwood 32 & 33	$ 85,000											
Boosters - Booster 26 at CH		$ 75,000										
Boosters - Paschall A & B			$ 111,000									
Boosters - Ocean View B & Booster 25				$ 103,000								
Annual Booster Replacement - 2 Boosters					$ 125,000	$ 95,000	$ 95,000	$ 150,000	$ 150,000	$ 150,000	$ 150,000	$ 150,000
ii. Pump Station Upgrade												
Paschall Booster Station		$ 85,000	$ 500,000									
Edmund #2 - Booster Station				$ 88,000	$ 375,000							
Cresta Heights Booster Station						$ 91,000	$ 504,000					
Ocean View Booster Station								$ 95,000	$ 503,000			
Goss Canyon Booster Station										$ 97,000	$ 536,000	
Rosemont - Booster Station												$ 98,000
iii. MCC Replacement												
Paschall		$ 85,000	$ 500,000									
Edmund #2				$ 88,000	$ 435,000							
Cresta Heights						$ 91,000	$ 450,000					
Ocean View								$ 95,000	$ 591,000			
Goss Canyon										$ 97,000	$ 536,000	
Rosemont												$ 98,000
D. Pressure Reducing Stations												
PRS - Zone 2 to Zone 1	$ 300,000											
E. Miscellaneous Projects												
i. Water Surge Control												
Rehabilitation Surge Tank at Glenwood		$ 50,000										
Rehabilitation Surge Tank at Mills Plant				$ 105,000								
Rehabilitation Surge Tank at Paschall Booster Station			$ 85,000									
ii. Street/Utility/ Meter Adjustment & Upgrade												
iii. Misc.												
Repairs to Ramsdell Mixing Station	$ -	$ 515,000										
Mills Plant - Aeration Tower Rehabilitation			$ 75,000									
F. Water Distribution Studies												
Pressure Reducing Valve (PRV) Station Analysis Study			$ 45,000									
Energy Use Efficiency Study			$ 51,000									
Water Distribution Hydraulic Study		$ 75,000			$ 75,000			$ 105,000				
WD Total	$ 1,617,136	$ 4,135,000	$ 6,117,000	$ 5,388,000	$ 6,160,000	$ 5,477,000	$ 6,405,000	$ 5,962,000	$ 7,127,000	$ 6,404,000	$ 7,440,000	$ 6,751,000

Long-Term CIP Program with Bond Financing Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
4. Water Treatment												
A. Nitrate Removal												
i. Glenwood												
Replace Ion Exchange Resin at Glenwood								$ 198,000				
ii. Mills												
Ion Exchange Plant at Mills - Design								$ 150,000				
Ion Exchange Plant at Mills - Construction												
iii. Ordunio												
Replace Bio Remediation AroNite Media at Ordunio								$ 100,000				
C. Convert to Chloramines												
Conversion to Chloramination Disinfection	$ 225,000											
D. Federal and State Regulations												
E. Water Quality Studies												
F. MTBE Removal												
WT Total	$ 225,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 448,000	$ -	$ -	$ -	$ -
5. Technology												
A. Advanced Metering infrastructure (AMI) System												
AMI - Conversion of 3/4" to 4" Meters to Smart Meters	$ 178,500	$ 15,700	$ 395,500	$ 120,000	$ 76,000							
AMI - Install Meter Lids & Radio Transceivers				$ 93,550	$ 332,900	$ 494,000						
AMI - Install & Integration of Fixed Area Network		$ 227,000	$ 153,000									
AMI - Customer Service Interface				$ 278,450	$ 56,100							
B. Supervisory Control and Data Acquisition (SCADA) System												
Upgrade Communication Radio Network for SCADA		$ 266,000										
SCADA RTU Replacement (35 sites) - Design	$ 87,000											
SCADA RTU Replace - Equipment & Integration		$ 609,000	$ 174,000									
C. Graphical Information System (GIS)												
Field Asset Tagging			$ 70,000									
TECH Total	$ 265,500	$ 1,117,700	$ 792,500	$ 492,000	$ 465,000	$ 494,000	$ -	$ -	$ -	$ -	$ -	$ -

Long-Term CIP Program with Bond Financing Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
6. Public Safety/Emergency Response												
A. Emergency Electrical Generators												
New Emergency Electrical Generator - Mills Plant									$ 128,000			
B. Water Storage												
Dunsmore/Pickens - Seismic Sensors & Valve Actuators	$ 7,500											
Ordunio - Seismic Sensors & Valve Actuators			$ 150,000									
Oak Creek #1 & #2 - Seismic Sensors & Valve Actuators					$ 185,000							
Encinal & Ocean View - Seismic Sensors & Valve Actuators								$ 155,000				
C. Security												
D. Miscellaneous												
Local Hazard Mitigation Plan - FEMA Grant		$ 165,000										
SF/ER Total	$ 7,500	$ 165,000	$ 150,000	$ -	$ 185,000	$ -	$ -	$ 155,000	$ 128,000	$ -	$ -	$ -
7. Facilities & Planning												
A. Main Office												
Expansion with New Roof with Solar Panels			$ 50,000									
New Main Office Building - Design												
B. Glenwood Plant												
C. Mills Plant												
D. Reservoir Site Improvements												
Williams Reservoir Site Evaluation and Improvement Study	$ 110,000											
Roof for Old Encinal - Storage Bldg		$ 150,000										
Facilities Maintenance Master Plan		$ 125,000										
5. Misc. Properties												
6. District Planning												
Asset Management Study			$ 100,000									
F & P Total	$ 110,000	$ 275,000	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Projects - Total	$ 2,872,936	$ 7,000,000	$ 8,500,000	$ 9,500,000	$ 9,000,000	$ 8,000,000	$ 8,000,000	$ 8,500,000	$ 8,500,000	$ 8,000,000	$ 8,000,000	$ 9,811,000

		ID No.	Street Name	Block No.	Year Const or Replaced	Pipe Size (in)	Pipe Length (ft)	Length of Pipe Replace (ft)	Atlas Book Page No.		Comment	Pipe Material	Years in Service	Total No. Leaks
Year 1 - FY 20/21	1	689	ROSEMONT	4300	1929	8	650	650	27		Prospect to Altura	STD	91	3
	2	153	ENCINAL	3400	1932	10	810	1460	13	14	New York to Dunsmore; Cross Channel	STD	88	0
		154	ENCINAL	3500	1932	10	780	2240	13	14	New York to Dunsmore; Cross Channel	STD	88	1
	3	521	PARAISO WAY	2700	1946	2	180	2420	16			STD	74	3
		135	DYER	4800	1946	2	380	2800	15		Needs to go with 2800 El Caminito	STD	74	0
		240	GLENWOOD	4800	1960	6	325	3125			Needs to go with 2800 El Caminito	CL&W	60	0
		729	STEVENS	2800	1958	6	125	3250			Needs to go with 2800 El Caminito	CL&W	62	0
		142	EL CAMINITO	2800	1946	8	680	3930	15	16		STD	74	1
	4	363	LOS OLIVOS	2800	1947	6	850	4780	15	16		STD	73	4
		364	LOS OLIVOS	2900	1947	6	850	5630	15			STD	73	2
		365	LOS OLIVOS	3000	1946	6	800	6430	15			STD	74	3
		366	LOS OLIVOS	3100	1946	6	830	**7260**	15	14		STD	74	1
Year 2 - FY 21/22	1	304	HONOLULU (SOUTH ALLEY)	2200	1933	5	740	740	32		Market to OV; concrete alley	OD	87	8
		452	MONTROSE LN (NORTH ALLEY)	2200	1933	5	700	1440	32		Thompson Ct to OV, concrete alley	OD	87	1
	2	383	MARKRIDGE (EASEMENT)	3200	1940	6	1300	2740	2		Easement, need survey; time?	STD	80	4
	3	756	THELMA	3300	1946	4	320	3060	14			STD	74	1
		11	ALABAMA	3200	1947	4	790	3850	14	7		STD	73	3
		71	CHERYL	4700	1947	4	290	4140	7	14		STD	73	0
		72	CHERYL	4800	1947	6	1080	5220	7			STD	73	2
	4	511	ORANGE (NORTH)	2600	1947	12	1280	6500	16		La Crescenta to Rosemont	CL&W	73	4
		512	ORANGE (SOUTH)	2600	1947	6	400	6900	16		In front of Mira Vista Elem.	STD	73	0
		513	ORANGE (SOUTH)	2600	1953	6	430	7330	16			STD	67	0
		505	ORANGE	2700	1953	6	1030	8360	16		Combine into one 12-inch pipe	STD	67	0
		59	CAMINITO LN	4900	1954	4	310	8670	16			STD	66	2
	5	69	CECILVILLE	4900	1951	4	810	9480	16			STD	69	0
		770	VICWOOD	4900	1951	4	850	**10330**	16			STD	69	0
Year 3 - FY 22/23	1	200	FOOTHILL (NORTHERN PIPE)	3300	1948	4	290	290	14		New York to Penn	STD	72	0
		188	FOOTHILL	3200	1967	4	770	1060	14			OD	53	1
		189	FOOTHILL	3300	1967	4	820	1880	14			OD	53	5
	2	437	MONTROSE (NORTH)	2400	1948	10	880	2760	28		Florencita to La Crescenta	STD	72	0
		438	MONTROSE (NORTH)	2500	1948	10	820	3580	27	28		STD	72	0
		439	MONTROSE (NORTH)	2600	1948	10	910	4490	27			STD	72	0
		440	MONTROSE (NORTH)	2700	1948	10	940	5430	27			STD	72	1
	3	389	MARY	2900	1949	6	820	6250	21		Rasmdell to La Crescenta	STD	71	4
		388	MARY	2800	1973	6	850	7100	21	22		CL&W	47	0
		653	RAMSDELL (NORTH OF COMMUNITY)	4400	1949	6	590	7690	21			STD	71	0
		659	RAMSDELL (SOUTH OF COMMUNITY)	4400	1949	8	360	8050	21			STD	71	0
			FOOTHILL (Southern Easement)	2900	1949	6	800	8850	21			CL&W	71	
	4	247	GROMER	3400	1948	3	260	9110	7			STD	72	0
		9	ALABAMA	3000	1950	4	790	9900	15			STD	70	2
		10	ALABAMA	3100	1954	6	860	**10760**	15	14		STD	66	0

Date: 2/12/2020

Long-Term CIP Program with Bond Financing Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
1. Water Supply	$ 194,500	$ 648,000	$ 330,000	$ 2,760,000	$ 930,000	$ 1,479,000	$ 995,000	$ 315,000	$ 595,000	$ 340,000	$ 560,000	$ 3,060,000
2. Water Storage	$ 453,300	$ 659,300	$ 960,500	$ 860,000	$ 1,260,000	$ 550,000	$ 600,000	$ 1,620,000	$ 650,000	$ 1,256,000	$ -	$ -
3A. Water Distribution - Pipeline	$ 1,232,136	$ 3,250,000	$ 4,750,000	$ 5,004,000	$ 5,150,000	$ 5,200,000	$ 5,356,000	$ 5,517,000	$ 5,883,000	$ 6,060,000	$ 6,218,000	$ 6,405,000
3B. Water Distribution - Other	$ 385,000	$ 885,000	$ 1,367,000	$ 384,000	$ 1,010,000	$ 277,000	$ 1,049,000	$ 445,000	$ 1,244,000	$ 344,000	$ 1,222,000	$ 346,000
4. Water Treatment	$ 225,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 448,000	$ -	$ -	$ -	$ -
5. Technology	$ 265,500	$ 1,117,700	$ 792,500	$ 492,000	$ 465,000	$ 494,000	$ -	$ -	$ -	$ -	$ -	$ -
6. Public Safety/Emergency Response	$ 7,500	$ 165,000	$ 150,000	$ -	$ 185,000	$ -	$ -	$ 155,000	$ 128,000	$ -	$ -	$ -
7. Facilities & Planning	$ 110,000	$ 275,000	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Projects - Total	$ 2,872,936	$ 7,000,000	$ 8,500,000	$ 9,500,000	$ 9,000,000	$ 8,000,000	$ 8,000,000	$ 8,500,000	$ 8,500,000	$ 8,000,000	$ 8,000,000	$ 9,811,000

		ID No.	Street Name	Block No.	Year Const or Replaced	Pipe Size (in)	Pipe Length (ft)	Length of Pipe Replace (ft)	Atlas Book Page No.		Comment	Pipe Material	Years in Service	Total No. Leaks
Year 4 - FY 23/24	1	694	ROSEMONT (EASTERN PIPE)	4500	1949	8	660	660	22		Rosemont Reservoir to Foothill	STD	71	1
		706	ROSEMONT (WESTERN PIPE)	4600	1949	8	690	1350	22			STD	71	0
		707	ROSEMONT (WESTERN PIPE)	4700	1949	8	720	2070	22			STD	71	0
	2	731	STEVENS	3000	1955	6	820	2890	15			CL&W	65	0
		732	STEVENS	3100	1950	6	810	3700	15	14		STD	70	0
	3	763	UPPER TERRACE	2600	1950	4	210	3910	9			STD	70	0
		761	UPPER TERRACE	2400	1954	6	510	4420	10	17		STD	66	1
		762	UPPER TERRACE	2500	1954	6	600	5020	9			STD	66	1
	4	430	MONTROSE	3400	1970	6	920	5940	19	20		CL&W	50	0
		431	MONTROSE	3500	1951	2	100	6040	19			STD	69	1
	5	532	PARK VISTA	3200	1951	2	350	6390	25	20		STD	69	6
		533	PARK VISTA	3200	1951	4	300	6690	25			STD	69	0
	6	506	ORANGE	2800	1953	8	840	7530	16	15		STD	67	0
		507	ORANGE	2900	1953	8	800	8330	15	8		STD	67	0
		508	ORANGE	3000	1952	8	910	9240	8			STD	68	0
		509	ORANGE	3100	1952	8	910	10150	8	7		STD	68	0
		510	ORANGE	3200	1957	6	710	10860	7			CL&W	63	1
Year 5 - FY 24/25	1	37	BRIGGS	4500	1954	6	1150	1150	23			CL&W	66	1
		115	COUNTRYSIDE LN	2500	1954	6	190	1340	23			STD	66	1
		634	QUEENSVIEW	2500	1954	4	240	1580	23			STD	66	1
		740	SUNSET	4700	1958	12	710	2290	23			CL&W	62	0
		741	SUNSET	4800	1958	8	650	2940	23			CML & CMC	62	0
	2	750	TEASLEY	2300	1948	4	460	3400	17			STD	72	4
		751	TEASLEY	2300	1975	8	400	3800	17			CL&W	45	0
		752	TEASLEY	2400	1954	6	720	4520	17			STD	66	0
		753	TEASLEY	2500	1954	6	630	5150	17			STD	66	0
	3	547	PENNSYLVANIA	5300	1940	6	500	3240	7		Penn - 5-yr - 2024	STD	80	1
		67	CARACAS	2300	1954	6	780	5930	17			STD	66	1
	4	160	FAIRESTA	3000	1954	6	810	6740	15			STD	66	0
		308	HUME	4600	1954	6	210	6950	15			CL&W	66	0
		519	ORIN	4600	1954	6	200	7150	15			STD	66	3
	5	185	FOOTHILL	2100	1955	8	170	7320	29			CL&W	65	0
		186	FOOTHILL	2200	1955	8	980	8300	29			CL&W	65	0
		209	FOOTHILL (ZONE 2)	2300	1977	12	910	9210	29			CL&W	43	0
		210	FOOTHILL (ZONE 3)	2300	1977	8	1310	10520	29	28		CL&W	43	0

Crescenta Valley Water District

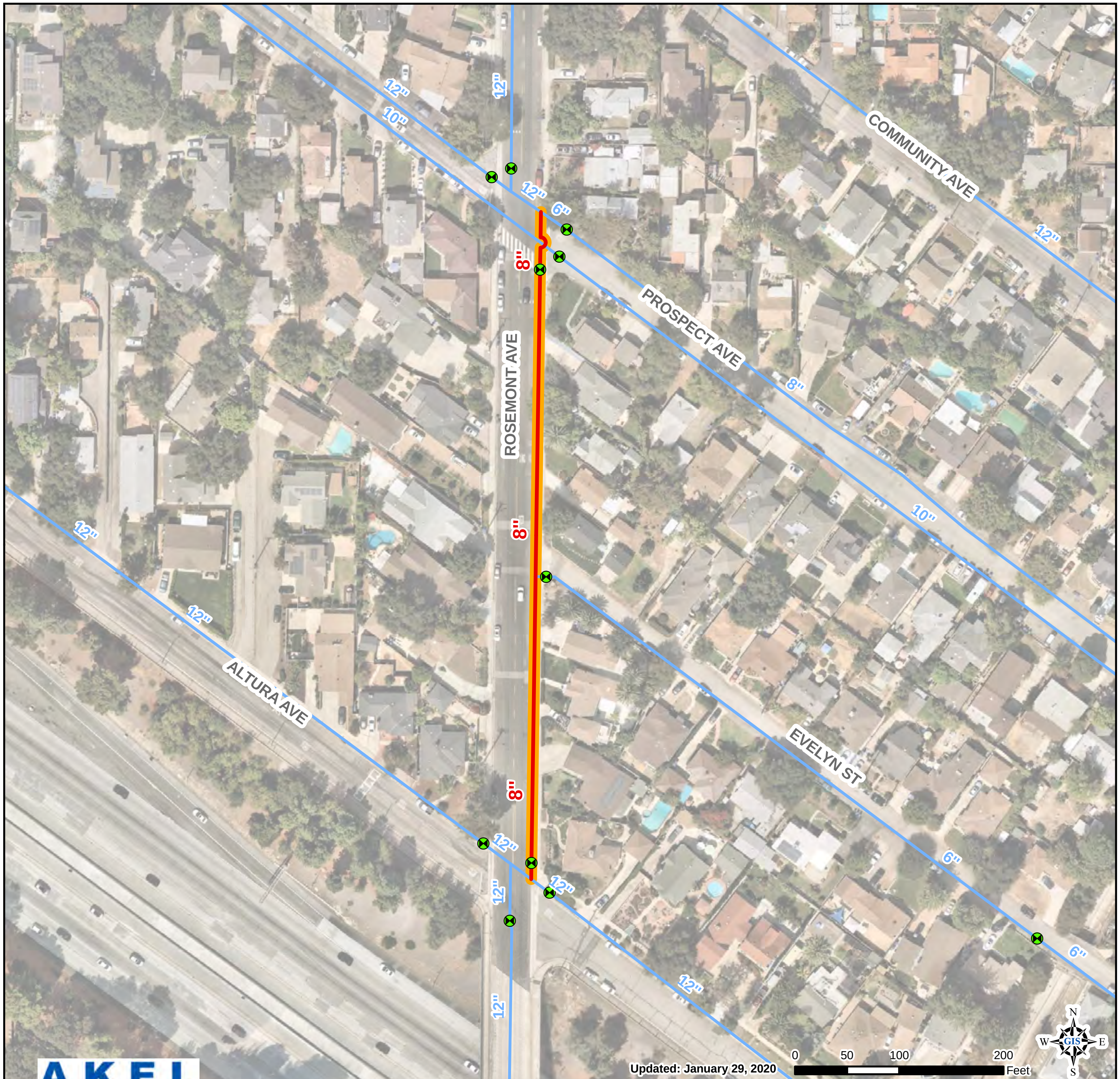
Pipeline Replacement Cost Estimate - Year 1

	ID No.	Street Name	Block No.	Year Const or Replaced	Pipe Size (in)	Pipe Length (ft)	Contractor Cost Estimate	Consultant, Materials, Permits, etc..	Total Cost Estimate	Cost/LF
1	689	ROSEMONT	4300	1929	8	650	$231,000	$157,260	$388,260	$597
2	153	ENCINAL	3400	1932	10	810				
	154	ENCINAL	3500	1932	10	780	$594,000	$264,600	$858,600	$540
3	521	PARAISO WAY	2700	1946	2	180				
	135	DYER	4800	1946	2	380				
	240	GLENWOOD	4800	1960	6	325				
	729	STEVENS	2800	1958	6	125				
	142	EL CAMINITO	2800	1946	8	680	$598,950	$274,500	$873,450	$517
4	363	LOS OLIVOS	2800	1947	6	850				
	364	LOS OLIVOS	2900	1947	6	850				
	365	LOS OLIVOS	3000	1946	6	800				
	366	LOS OLIVOS	3100	1946	6	830	$1,143,230	$352,000	$1,495,230	$449
						7,260	$2,567,180	$1,048,360	$3,615,540	$498

Year	LF	Cost/LF	Total Cost	% Increase
1	7,465	$434	$3,242,398	
2	10,330	$447	$4,621,405	3%
3	10,760	$461	$4,958,191	3%
4	10,860	$475	$5,154,399	3%
5	10,520	$494	$5,192,748	4%
	49,935	$464	23,169,141	
	9.5	Miles		

Project Scehdule				
		Start	End	
Consultant	Design 1 & 2	May-20	Jul-20	62
	Design 3 & 4	Jul-20	Sep-20	62
Ad for Bids	Jul-20			
Award Contract	Aug-20			
Start Work	Sep-20			
Complete	Jun-21			
	Start	**End**	**Duration**	**Contractor**
Project 1	Sep-20	Dec-20	90	1
Project 2	Dec-20	Mar-21	120	
Project 3	Jan-21	May-21	120	1
Project 4	Jan-21	Jun-21	160	1
			# of Contractors	3

ITEM	DESCRIPTION	QUANTITY		UNIT	AMOUNT				
1	Excavation and Backfill	10,980	LF	$85	$933,300				
2	Resurfacing Trench - AC Pavement	32,700	SF	$11	$359,700				
3	10" CML & CMC Steel Pipe	1,600	LF	$75	$120,000				
4	8" CML & CMC Steel Pipe	5,865	LF	$75	$439,875				
5	6" Fire Hydrant Assembly	22	EA	$4,500	$99,000				
6	1-inch Water Services	152	EA	$1,750	$266,000				
7	Channel Crossing	2	EA	$35,000	$70,000				
8	Traffic Control	1	LS	$45,925	$45,925				
						Discount			
	Subtotal				$2,333,800	10%	$2,100,420	$233,380	
	Contingency	10.0%			$233,380				
	Total Construction				$2,567,180				
	Total Materials				$414,460	20%	$331,568	$82,892	
	Soils Eng				$23,000				
	Consultant Design				$258,500	22%	$201,630	$56,870	
	Consultant Inspection				$290,400				
	CVWD Labor/Permits				$62,000				
	Contractor Cost/LF	**7,465**	**LF**	**$343.90**	**$2,567,180**			$373,142	
	Total Cost/LF	**7,465**	**LF**	**$484.33**	**$3,615,540**		$434	10%	$3,242,398



Legend

Pipeline to Replace

Replacement Segment ID

ID: Length, Year Inst., Material

689: 650ft, 1929, STD

Existing System

Tanks

Pump Stations

Wells

Valves

Active Mains

Group 1 Replacement
Total Length: 650 ft

PRELIMINARY

Year 1 - FY 20/21 Group 1

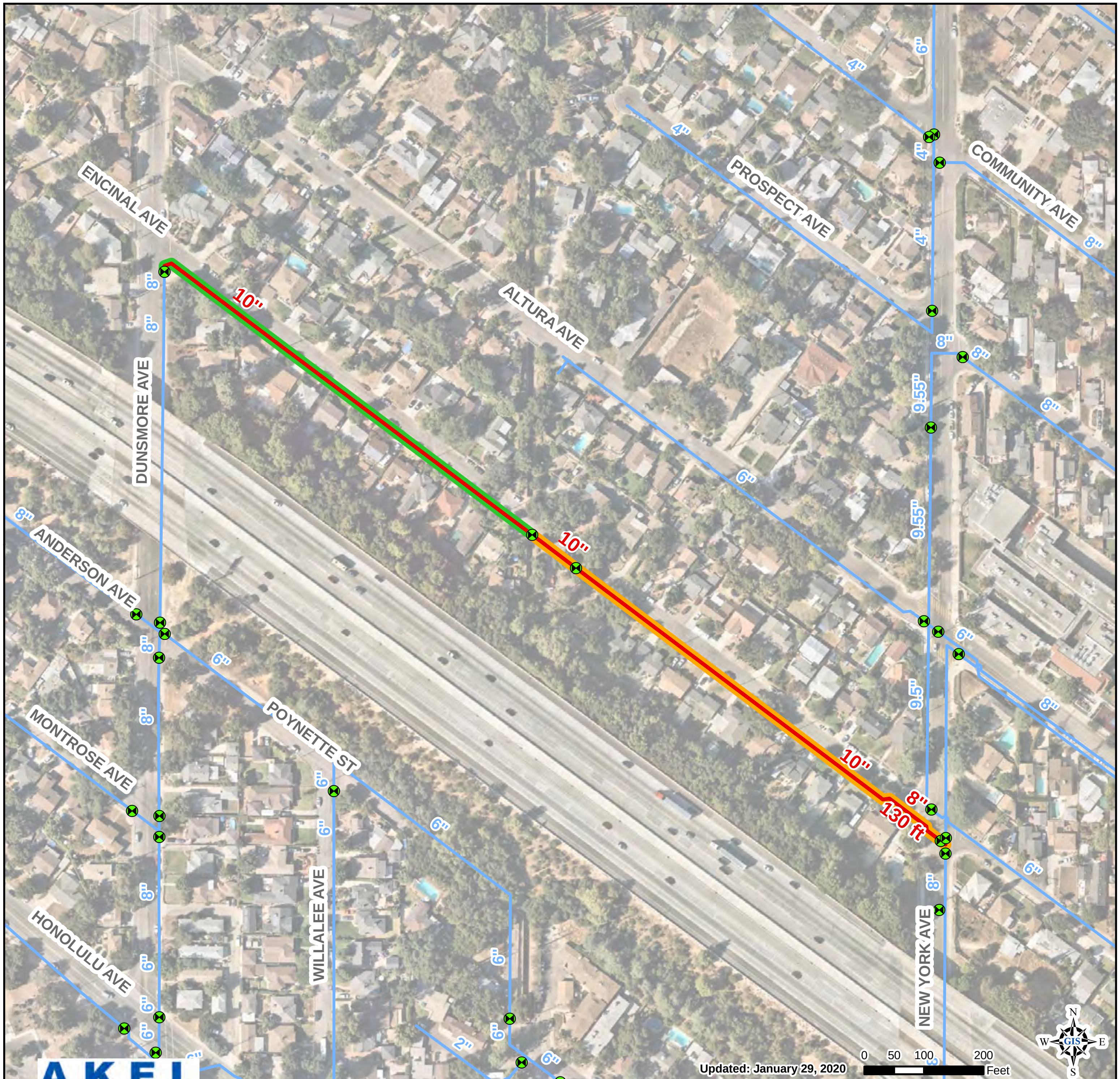
Pipeline Replacement Schedule

Crescenta Valley Water District

CVWD

AKEL ENGINEERING GROUP, INC.

File Path: P:\xGIS\GIS_Projects\Crescenta_Valley_WD\Replacement\CrVWD_Year1-Gr1_012920.mxd



Legend

Pipeline to Replace

Replacement Segment ID

ID: Length, Year Inst., Material

153: 880ft, 1932, STD

154: 780ft, 1932, STD

Existing System

Tanks

Pump Stations

Wells

Valves

Active Mains

Group 2 Replacement

Total Length: 1,660 ft

PRELIMINARY

Year 1 - FY 20/21
Group 2

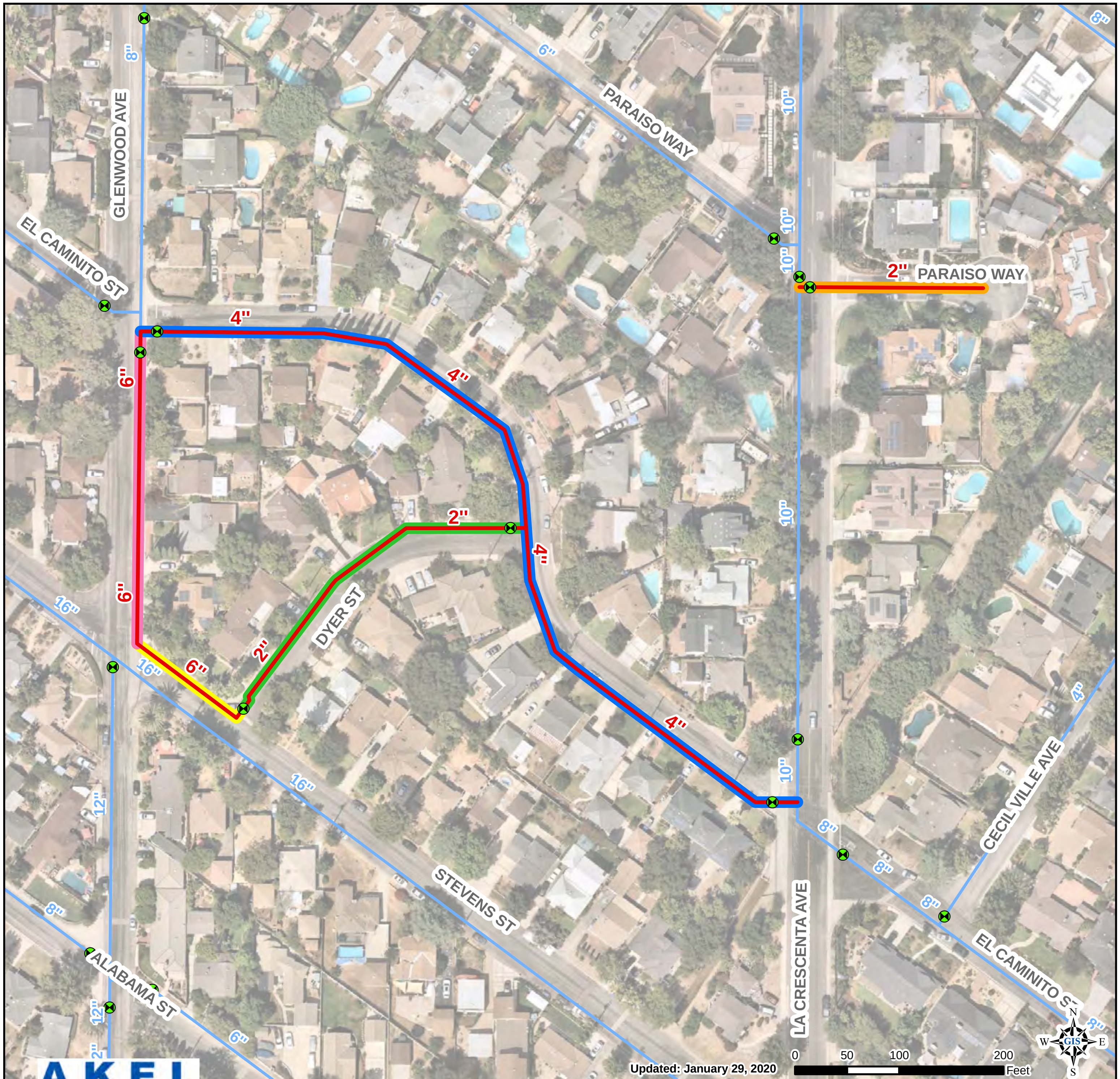
Pipeline Replacement Schedule

Crescenta Valley Water District

CVWD

AKEL ENGINEERING GROUP, INC.

File Path: P:\xGIS\GIS_Projects\Crescenta_Valley_WD\Replacement\CrVWD_Year1-Gr2_012920.mxd



Legend

Pipeline to Replace

Replacement Segment ID

ID: Length, Year Inst., Material

135: 360ft, 1946, STD

142: 880ft, 1946, STD

240: 300ft, 1960, CL&W

521: 180ft, 1946, STD

729: 130ft, 1958, CL&W

Existing System

Tanks

Pump Stations

Wells

Valves

Active Mains

Group 3 Replacement
Total Length: 1,840 ft

PRELIMINARY

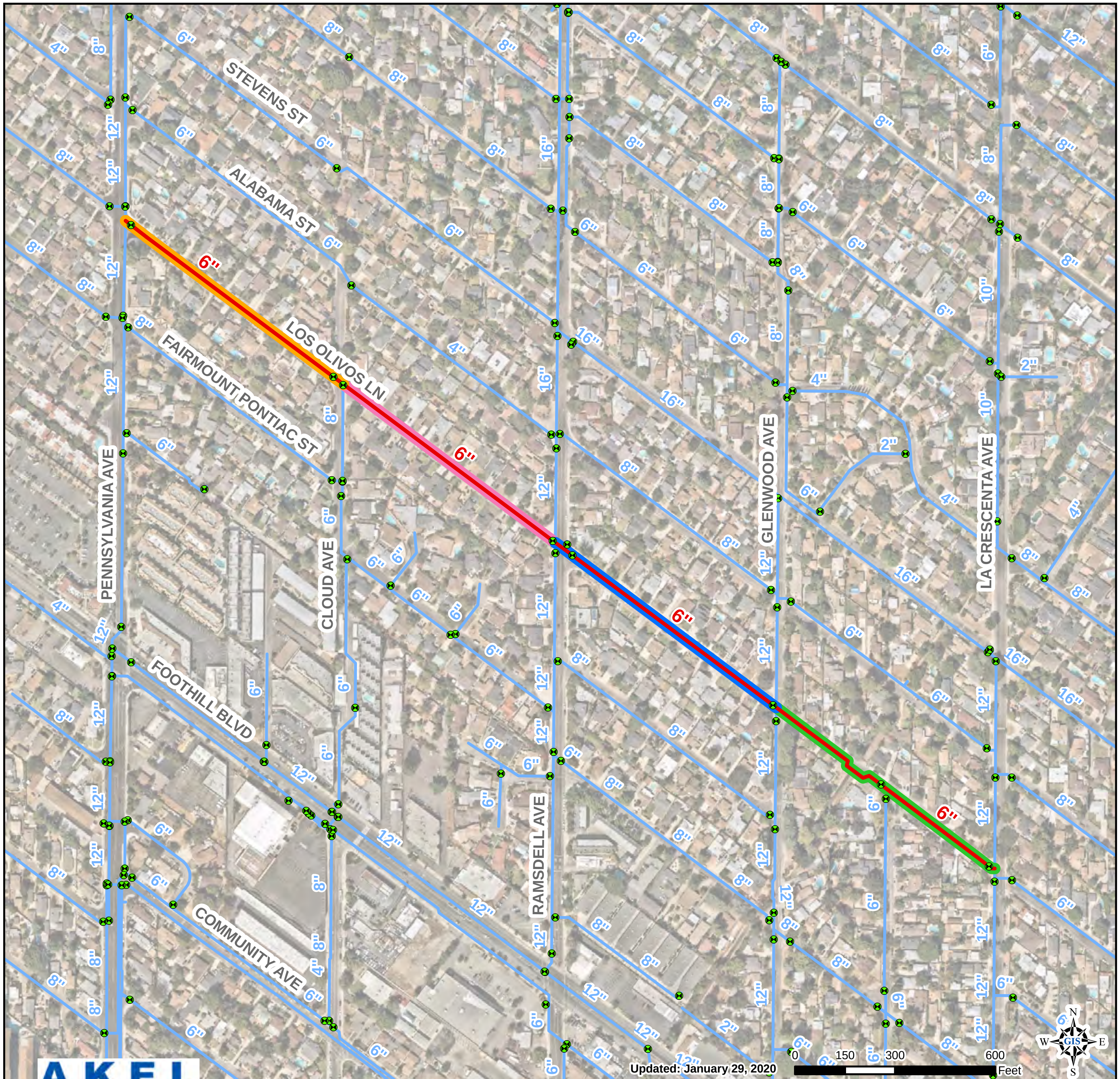
Year 1 - FY 20/21
Group 3
Pipeline Replacement Schedule

Crescenta Valley Water District

CVWD

AKEL ENGINEERING GROUP, INC.

File Path: P:\xGIS\GIS_Projects\Crescenta_Valley_WD\Replacement\CrVWD_Year1-Gr3_012920.mxd



Legend

Pipeline to Replace

Replacement Segment ID

ID: Length, Year Inst., Material

363: 830ft, 1947, STD

364: 830ft, 1947, STD

365: 790ft, 1947, STD

366: 820ft, 1947, STD

Existing System

Tanks

Pump Stations

Wells

Valves

Active Mains

Group 4 Replacement
Total Length: 3,270 ft

PRELIMINARY

Year 1 - FY 20/21
Group 4

Pipeline Replacement Schedule

Crescenta Valley Water District

CVWD

AKEL ENGINEERING GROUP, INC.

File Path: P:\xGIS\GIS_Projects\Crescenta_Valley_WD\Replacement\CrVWD_Year1-Gr4_012920.mxd

Long-term Capital Improvement Project Program Budget - PayGo Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
1. Water Supply												
A. Groundwater Water Supply												
i. Well Rehabilitation												
Well 16 Rehabilitation	$ 130,800											
Well 11 Rehabilitation	$ -	$ 75,000										
Well 9 Rehabilitation												
Well 14 Rehabilitation												
Well Rehabilitation			$ 95,000		$ 105,000			$ 100,000		$ 100,000		$ 100,000
ii. New Wells												
iii. Groundwater Basin Recharge												
B. Imported Water Supply												
C. Recycled Water System												
i. Recycled Water												
ii. Membrane Bioreactor Technology (MBR)												
D. Water Supply Studies												
Leasing Water Storage to FMWD	$ 4,500											
WS Total	$ 194,500	$ 75,000	$ 95,000	$ -	$ 105,000	$ -	$ -	$ 100,000	$ -	$ 100,000	$ 200,000	$ 150,000
2. Water Storage												
A. Reservoir Rehabilitation												
i. Steel Reservoir Re-Coating/Roof/Vents Rehabilitation												
Markridge	$ 453,300											
Rosemont		$ 480,000										
Eagle Canyon			$ 720,000									
Edmund #2				$ 500,000								
Goss Canyon #1 & #2					$ 500,000	$ 550,000						
Shields							$ 550,000					
Cresta Hts #1 & 2												
Dunsmore								$ 600,000				
Pickens Canyon									$ 650,000			
Ordunio										$ 850,000		
ii. Concrete Reservoir Rehabilitation												
Encinal					$ 100,000							
Williams (Ocean View)								$ 100,000				
B. Reservoir Water Quality												
i. Water Quality Mixing System												
C. Water Storage Studies												
WS Total	$ 453,300	$ 480,000	$ 710,000	$ 500,000	$ 600,000	$ 550,000	$ 550,000	$ 700,000	$ 650,000	$ 850,000	$ -	$ -

Long-term Capital Improvement Project Program Budget - PayGo Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
3. Water Distribution												
A. Pipeline Replacement												
3200 & 3300 Blocks of Brookhill - 1,485 LF	$ 510,000											
4700 & 4800 Block of Pennsylvania - 800 LF	$ 722,136											
Annual Pipeline Replacement - 2,700 LF		$ 1,000,000										
Annual Pipeline Replacement			$ 900,000	$ 800,000	$ 750,000	$ 850,000	$ 600,000	$ 350,000	$ 550,000	$ 200,000	$ 1,000,000	$ 1,000,000
C. Booster Pump System												
i. Annual Pump /Motor Replacement												
Boosters - Glenwood 32 & 33	$ 85,000											
Annual Booster Replacement - 1 Booster			$ 45,000		$ 45,000		$ 50,000	$ 50,000		$ 50,000		$ 50,000
ii. Pump Station Upgrade												
iii. MCC Replacement												
D. Pressure Reducing Stations												
PRS - Zone 2 to Zone 1	$ 300,000											
E. Miscellaneous Projects												
i. Water Surge Control												
Rehabilitation Surge Tank at Glenwood				$ 80,000								
Rehabilitation Surge Tank at Paschall Booster Station				$ 85,000								
iii. Misc.												
Repairs to Ramsdell Mixing Station	$ -	$ 440,000										
Mills Plant - Aeration Tower Rehabilitation				$ 75,000								
F. Water Distribution Studies												
WD Total	$ 1,617,136	$ 1,440,000	$ 945,000	$ 1,040,000	$ 795,000	$ 850,000	$ 650,000	$ 400,000	$ 550,000	$ 250,000	$ 1,000,000	$ 1,050,000
4. Water Treatment												
A. Nitrate Removal												
i. Glenwood												
iii. Ordunio												
C. Convert to Chloramines												
Conversion to Chloramination Disinfection	$ 225,000											
D. Federal and State Regulations												
E. Water Quality Studies												
F. MTBE Removal												
WT Total	$ 225,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Long-term Capital Improvement Project Program **Budget - PayGo** **Date: 02/21/2020**	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
5. Technology												
A. Automated Meter Information (AMI) System												
AMI - Conversion of 3/4" to 4" Meters to Smart Meters	$ 178,500											
B. Supervisory Control and Data Acquisition (SCADA) System												
Upgrade Communication Radio Network for SCADA		$ 90,000	$ 90,000									
SCADA RTU Replacement (35 sites) - Design	$ 87,000											
SCADA RTU Replace - Equipment & Integration		$ 260,000	$ 260,000	$ 260,000								
C. Graphical Information System (GIS)												
TECH Total	$ 265,500	$ 350,000	$ 350,000	$ 260,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6. Public Safety/Emergency Response												
A. Emergency Electrical Generators												
B. Water Storage												
Dunsmore/Pickens - Seismic Sensors & Valve Actuators	$ 7,500											
C. Security												
D. Miscellaneous												
Local Hazard Mitigation Plan - FEMA Grant		$ 165,000										
SF/ER Total	$ 7,500	$ 165,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7. Facilities & Planning												
A. Main Office												
B. Glenwood Plant												
C. Mills Plant												
D. Reservoir Site Improvements												
Roof for Old Encinal - Storage Bldg		$ 70,000										
Facilities Maintenance Master Plan				$ 100,000								
5. Misc. Properties												
6. District Planning												
F & P Total	$ -	$ 70,000	$ -	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Projects - Total	$ 2,762,936	$ 2,580,000	$ 2,100,000	$ 1,900,000	$ 1,500,000	$ 1,400,000	$ 1,200,000	$ 1,200,000	$ 1,200,000	$ 1,200,000	$ 1,200,000	$ 1,200,000

Long-term Capital Improvement Project Program Budget - PayGo Date: 02/21/2020	Projected FY 19/20	Budget FY 20/21	Forecast FY 21/22	Forecast FY 22/23	Forecast FY 23/24	Forecast FY 24/25	Forecast FY 25/26	Forecast FY 26/27	Forecast FY 27/28	Forecast FY 28/29	Forecast FY 29/30	Forecast FY 30/31
10-Year Capital Improvement Project Summary												
1. Water Supply	$ 194,500	$ 75,000	$ 95,000	$ -	$ 105,000	$ -	$ -	$ 100,000	$ -	$ 100,000	$ 200,000	$ 150,000
2. Water Storage	$ 453,300	$ 480,000	$ 710,000	$ 500,000	$ 600,000	$ 550,000	$ 550,000	$ 700,000	$ 650,000	$ 850,000	$ -	$ -
3A. Water Distribution - Pipeline	$ 1,232,136	$ 1,000,000	$ 900,000	$ 800,000	$ 750,000	$ 850,000	$ 600,000	$ 350,000	$ 550,000	$ 200,000	$ 1,000,000	$ 1,000,000
3B. Water Distribution - Other	$ 385,000	$ 440,000	$ 45,000	$ 240,000	$ 45,000	$ -	$ 50,000	$ 50,000	$ -	$ 50,000	$ -	$ 50,000
4. Water Treatment	$ 225,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5. Technology	$ 265,500	$ 350,000	$ 350,000	$ 260,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6. Public Safety/Emergency Response	$ 7,500	$ 165,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7. Facilities & Planning	$ -	$ 70,000	$ -	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Improvement Projects - Total	$ 2,762,936	$ 2,580,000	$ 2,100,000	$ 1,900,000	$ 1,500,000	$ 1,400,000	$ 1,200,000	$ 1,200,000	$ 1,200,000	$ 1,200,000	$ 1,200,000	$ 1,200,000

CRESCENTA VALLEY WATER DISTRICT
STAFF REPORT

Information Item No. 2
February 21, 2020

To: Engineering Committee

From: David S. Gould, P.E. – District Engineer

Subject: **FY 19/20 Water and Wastewater Capital Improvement Project Program – Project Status**

BACKGROUND:

The following table is a summary of the FY 19/20 Water CIP program including project status and budgeted cost estimates:

Capital Improvement Project Program Project Name	Budget FY 19/20	Project Status
Well Rehabilitation	**$190,000**	Well 16 - Under Construction - 50% complete; Well 11 - Under Design
Reservoir Rehabilitation	**$435,000**	Markridge Reservoir - Under Construction - 75% complete
Annual Pipeline Replacement	**$624,000**	3200 & 3300 Blocks of Brookhill - Complete
	$515,000	4700 & 4800 Blocks of Pennsylvania Ave - 95% complete
Annual Booster Pump Replacement	**$85,000**	Booster 32 & 33 at Glenwood Plant - Advertising for Bids
Rehabilitation of Ramsdell/Mayfield Blending Station	**$300,000**	Pressure Reducing Station - Zone 2 to Zone 1 - Under Design
Conversion to Chloramines	**$125,000**	Installation of Ammonia Stations at Pickens - 90% complete & Well 2 - 70% complete
SCADA Replacement - Equipment & Integration	**$315,000**	Replacement, programing, integration and testing of RTU/PLC equipment - Under Design
Advanced Metering Infrastructure (AMI) Program	**$178,500**	Installation of Meters - Zones 1, 2 & 3 - Zone 3 - 40% complete; Zone 2 - 10%; Zone 1 moved to FY 20/21
District Facility Improvements	**$110,000**	Williams Reservoir site improvements - Planning - 10% complete
Total	**$2,877,500**	

Also attached is the FY 19/20 CIP Program – Cost update, which shows the costs from July to December 2019 and the amount remaining or committed to the project. At the present time, the FY 19/20 CIP is about $105,000 below budget.

DISCUSSION:

The following is a status projects and project schedule for FY 19/20 Water CIP Program:

- Replacement of Pump and Motor Assembly for Glenwood Boosters 32 & 33, Project E-1013
  - Project currently requesting quotes from pump contractors
  - Award contract at 3/10/20 Board Meeting
  - Installation to start – early April 2020
  - Engineer’s Estimate - $62,000
- Well 11 Rehabilitation – Project E-1015
  - Design – 65% complete
  - Request to advertise for bids at 3/24/20 Board Meeting
  - Award of Contract at 4/14/20 Board Meeting
  - Construction start – early May 2020
- Pressure Reducing Station for Zone 2 to Zone 1 located at intersection of Ramsdell & Mayfield
  - Design – 75% complete
  - Request to advertise for bids at 4/14/20 Board Meeting
  - Award of Contract at 5/12/20 Board Meeting
  - Construction start – early June 2020

- <u>Conversion to Chloramines, Project E-995</u>
    - Glenwood & Mills Plant
        - Construction - 100% complete
        - Testing – Tentatively set for week of 3/16/20
    - Chlorine Analyzers – six (6) sites
        - Installation – 100% complete
    - Pickens Canyon Tunnel
        - Construction – 90% complete
        - Testing - Tentatively set for week of 3/16/20
    - Well 2
        - Construction 80% complete
        - Testing - Tentatively set for week of 3/16/20
    - Amended Permit – DDW
        - 80% Complete
        - Submittal - Tentatively set for week of 3/23/20
    - Conversion to Chloramines
        - Testing - Tentatively set for week of 4/13/20; after review by DDW
        - Conversion - Tentatively set for week of 5/11/20

The following is a status projects and project schedule for FY 19/20 Wastewater CIP Program:

- <u>New Emergency Electrical Generator at the La Granada Wastewater Lift Station, Project S-962 -</u> Permanent emergency electrical generator at the lift station with an automatic transfer switch as part of CVWD's continuing effort for emergency planning and prevention of sewer overflows
    - Design – Request for additional profession services for Cannon – 2/24/20
        - Additional Services - $52,000; $75,000 estimated in budget
    - Complete design and permitting issues with LCF - 3/6/20 to 5/20/20
    - Public outreach and community meeting - 4/13/20 to 5/13/20
    - Advertise for Bids - 5/26/20
    - Award Contract - 6/23/20
    - Construction - 9/28/20 to 11/6/20

<u>PROJECT STATUS:</u>
Staff will provide a project status update to the Board as part of the monthly Engineering/Operations report and provide additional details at the next Engineering Committee meeting.

Prepared & Submitted by:

David S. Gould, P.E.
District Engineer

Capital Improvement Project Program FY 19/20 CIP Program - Cost update Date: 02/21/20	Recorded FY 18/19	Budget FY 19/20	FY 19/20 Cost to date from 7/1/19 to 12/31/19	FY 19/20 Cost Committed from 1/1/20 to 6/30/20	Projected FY 19/20
1. Water Supply					
A. Groundwater					
i. Well Rehabilitation					
Well 1 Rehabilitation	$ 55,315				
Well 7 Rehabilitation	$ 90,739				
Well 16 Rehabilitation		$ 95,000	$ -	$ 130,800	$ 130,800
Well 11 Rehabilitation		$ 95,000	$ -	$ 59,200	$ 59,200
ii. New Wells					
Re-Activate Well 2 - Construction	$ 554,961				
B. Imported Water					
Ocean View - Final	$ 2,819				
D. Recycled Water System					
WS Total	$ 701,015	$ 190,000	$ -	$ 190,000	$ 190,000
2. Water Storage					
A. Reservoir Rehabilitation					
i. Steel Reservoir Re-Coating/Roof/Vents Rehabilitation					
Oak Creek #1 & #2	$ 521,593				
Markridge		$ 435,000	$ 13,886	$ 439,414	$ 453,300
B. Reservoir Water Quality					
C. Studies					
WS Total	$ 521,593	$ 435,000	$ 13,886	$ 439,414	$ 453,300
3. Water Distribution					
A. Pipeline Replacement					
Lower Pickens Canyon Crossing & Slope - 600 LF	$ 2,976				
2700 Block - Brookhill - 800 LF	$ 173,169				
5100 Block of La Crescenta - 400 LF	$ 77,628				
3000 Block of Brookhill - 800 LF	$ 157,569				
3100 Block of Brookhill - 800 LF	$ 154,594				
3200 & 3300 Blocks of Brookhill - 1,485 LF		$ 624,000	$ 17,282	$ 492,718	$ 510,000
4700 & 4800 Block of Pennsylvania - 800 LF		$ 515,000	$ 597,136	$ 125,000	$ 722,136
B. New Pipelines					
C. Booster Pump System					
i. Annual Pump /Motor Replacement					
Boosters - Encinal B & C	$ 28,773				
Boosters - Glenwood 32 & 33		$ 85,000	$ -	$ 62,500	$ 62,500
D. Pressure Reducing Stations					
PRS - Zone 2 to Zone 1		$ 165,000	$ -	$ 165,000	$ 165,000
E. Miscellaneous Projects					
ii. Street/Utility/ Meter Adjustment & Upgrade					
Street Rehabilitation - Pennsylvania Ave	$ 88,000				
iii. Misc.					
Repairs to Ramsdell Mixing Station	$ 2,869	$ 135,000	$ -	$ 135,000	$ 135,000
WD Total	$ 685,579	$ 1,524,000	$ 614,418	$ 980,218	$ 1,594,636
4. Water Treatment					
A. Nitrate Removal					
C. Convert to Chloramines					
Conversion to Chloramination Disinfection	$ 982,690	$ 125,000	$ 83,950	$ 141,050	$ 225,000
D. Federal and State Regulations					
E. Water Quality Studies					
F. MTBE Removal					
WT Total	$ 982,690	$ 125,000	$ 83,950	$ 141,050	$ 225,000

Capital Improvement Project Program FY 19/20 CIP Program - Cost update Date: 02/21/20	Recorded FY 18/19		Budget FY 19/20	FY 19/20 Cost to date from 7/1/19 to 12/31/19	FY 19/20 Cost Committed from 1/1/20 to 6/30/20	Projected FY 19/20
5. Technology						
A. Automated Meter Information (AMI) System						
AMI - Conversion of 3/4" to 4" Meters to Smart Meters			$ 178,500	$ -	$ 97,000	$ 97,000
AMI - Install & Integration of Fixed Area Network						
B. Supervisory Control and Data Acquisition (SCADA) Syste						
SCADA RTU Replacement (35 sites) - Design			$ 315,000	$ 4,238	$ 90,762	$ 95,000
C. Graphical Information System (GIS)						
TECH Total	$ -		$ 493,500	$ 4,238	$ 187,762	$ 192,000
6. Public Safety/Emergency Response						
A. Emergency Electrical Generators						
B. Water Storage						
Dunsmore/Pickens - Seismic Sensors & Valve Actuators	$ 5,000		$ -	$ 2,705	$ 4,795	$ 7,500
C. Security						
D. Miscellaneous						
Local Hazard Mitigation Plan - FEMA Grant						
SF/ER Total	$ -		$ -	$ 2,705	$ 4,795	$ 7,500
7. Facilities & Planning						
A. Main Office						
B. Glenwood Plant						
C. Mills Plant						
D. Reservoir Site Improvements						
Williams Reservoir Site Improvements			$ 110,000	$ -	$ 110,000	$ 110,000
5. Misc. Properties						
6. District Planning						
F & P Total	$ -		$ 110,000	$ -	$ 110,000	$ 110,000
Capital Improvement Projects - Total	$ 2,890,877		$ 2,877,500	$ 719,197	$ 2,053,239	$ 2,772,436

FY 19/20 Capital Improvement Project Summary

1. Water Supply	$ 701,015		$ 190,000	$ -	$ 190,000	$ 190,000
2. Water Storage	$ 521,593		$ 435,000	$ 13,886	$ 439,414	$ 453,300
3. Water Distribution	$ 685,579		$ 1,524,000	$ 614,418	$ 980,218	$ 1,594,636
4. Water Treatment	$ 982,690		$ 125,000	$ 83,950	$ 141,050	$ 225,000
5. Technology	$ -		$ 493,500	$ 4,238	$ 187,762	$ 192,000
6. Public Safety/Emergency Response	$ -		$ -	$ 2,705	$ 4,795	$ 7,500
7. Facilities & Planning	$ -		$ 110,000	$ -	$ 110,000	$ 110,000
Capital Improvement Projects - Total	$ 2,890,877		$ 2,877,500	$ 719,197	$ 2,053,239	$ 2,772,436