



LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 Las Virgenes Road, Calabasas, CA 91302

AGENDA
REGULAR MEETING
June 1, 2021, 9:00 AM

Public Participation for Meetings of Las Virgenes Municipal Water District Board of Directors in Response to COVID-19

On March 4, 2020, Governor Newsom proclaimed a State of Emergency in California as a result of the threat of COVID-19. On March 17, 2020, Governor Newsom issued Executive Order N-29-20 (superseding the Brown Act-related provisions of Executive Order N-25-20 issued on March 12, 2020), which allows a local legislative body to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public seeking to observe and to address the local legislative body. Pursuant to Executive Order N-29-20, please be advised that members of the Las Virgenes Municipal Water District Board of Directors will participate in meetings via teleconferencing.

PUBLIC PARTICIPATION: Pursuant to Executive Order N-29-20 and given the current health concerns, this meeting is being conducted via Zoom Webinar and all attendees are muted by default. To join via computer, please use the following Zoom Webinar ID:

Webinar ID: <https://us06web.zoom.us/j/85653765538>

To join by telephone, please dial (669) 900-6833 or (346) 248-7799 and enter Webinar ID: 856 5376 5538

For members of the public wishing to address the Board during Public Comment or during a specific agenda item, please press "Raise Hand" if you are joining via computer, or press *9 if you are joining via phone.

Members of the public can also access and request to speak at meetings live on-line, with audio and limited video, at www.LVMWD.com/LiveStream. In addition, members of the public can submit written comments electronically for consideration at www.LVMWD.com/LiveStream. To ensure distribution to the members of the Las Virgenes Municipal Water District Board of Directors prior to consideration of the agenda, please submit comments 24 hours prior to the day of the meeting. Those comments, as well as any comments received during the meeting, will be distributed to the members of the Board of Directors and will be made part of the official public record of the meeting. Contact Josie Guzman, Executive Assistant/Clerk of the Board, at (818) 251-2123 or jguzman@lvmwd.com with any questions.

ACCESSIBILITY: If requested, the agenda and backup materials will be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in implementation thereof. Any person who requires a disability-related modification or accommodation, in order to observe and/or offer public comment may request such reasonable modification, accommodation, aid, or service by contacting the Executive Assistant/Clerk of the Board by telephone at (818) 251-2123 or via email to jguzman@lvmwd.com no later than 9:00 AM on the day before the scheduled meeting.

Members of the public wishing to address the Board of Directors are advised that a statement of Public Comment Protocols is available from the Clerk of the Board. Prior to speaking, each speaker is asked to review these protocols, complete a speakers' card, and hand it to the Clerk of the Board. Speakers will be recognized in the order the cards are received. A live webcast of the meeting will be available at LVMWD.com. Also, a web-based version of the speaker card is available for those who would like to submit written comments electronically or request to make public comment by telephone during the meeting.

The Public Comments agenda item is presented to allow the public to address the Board on matters not on the agenda. The public may also present comments on matters on the agenda; speakers for agenda items will be recognized at the time the item is called up for discussion.

Materials prepared by the District in connection with the subject matter on the agenda are available for public inspection at 4232 Las Virgenes Road, Calabasas, CA 91302. Materials prepared by the District and distributed to the Board during this meeting are available for public inspection at the meeting or as soon thereafter as possible. Materials presented to the Board by the public will be maintained as part of the records of these proceedings and are available upon request to the Clerk of the Board.

PLEDGE OF ALLEGIANCE

1 CALL TO ORDER AND ROLL CALL

2 APPROVAL OF AGENDA

3 PUBLIC COMMENTS

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

4 CONSENT CALENDAR

Matters listed under the Consent Calendar are considered to be routine, non-controversial and normally approved with one motion. If discussion is requested by a member of the Board on any Consent Calendar item, or if a member of the public wishes to comment on an item, that item will be removed from the Consent Calendar for separate action.

A **List of Demands: June 1, 2021 (Pg. 6)**

Receive and File

B **Minutes: Regular Meeting of May 4, 2021 (Pg. 67)**

Approve

C Directors' Per Diem: April 2021 (Pg. 76)

Ratify

D Water Supply Conditions Update (Pg. 83)

Receive and File

E Response to Coronavirus (COVID-19) Pandemic: Continuation of Emergency (Pg. 85)

Approve the continuation of an emergency declaration for response to the coronavirus (COVID-19) pandemic.

F Cloud Archive and Remote Disaster Recovery for JD Edwards (Pg. 87)

Accept the proposal from Denovo Ventures, LLC, and authorize the General Manager to execute a three-year agreement, in the annual amount of \$94,800, plus a one-time initial fee of \$14,000, to provide cloud archive and remote disaster recovery services.

G Stationary Emergency Generators for Critical Pump Stations Project: Approval of Scope Change No. 3 (Pg. 105)

Authorize the General Manager to approve Scope Change No. 3, in the amount of \$4,125, for Hamner and Jewell to provide additional property-related services for the Stationary Emergency Generators for Critical Pump Stations Project.

5 ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A MWD Representative Report (Pg. 114)

B Legislative and Regulatory Updates

6 TREASURER

7 ENGINEERING AND EXTERNAL AFFAIRS

A 2020 Urban Water Management Plan and Water Shortage Contingency Plan: Public Hearing and Adoption (Pg. 119)

Conduct a public hearing to accept comments on the 2020 Urban Water Management Plan and Water Shortage Contingency Plan; and pass, approve and adopt proposed Resolution No. 2593, adopting the 2020 Urban Water Management Plan and Water Shortage Contingency Plan.

RESOLUTION NO. 2593

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT ADOPTING THE 2020 URBAN WATER MANAGEMENT PLAN AND WATER SHORTAGE CONTINGENCY PLAN

(Reference is hereby made to Resolution No. 2593 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

B Relief to Specified Customers to Support Rebuilding of Homes

Destroyed in Woolsey Fire: Extension of Time (Pg. 215)

Pass, approve and adopt proposed Resolution No. 2594, granting a one-year time extension for relief provided to specified customers to support rebuilding of homes destroyed by the Woolsey Fire.

RESOLUTION NO. 2594

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT GRANTING AN EXTENSION OF TIME TO PROVIDE RELIEF TO SPECIFIED CUSTOMERS TO SUPPORT REBUILDING OF HOMES DESTROYED BY THE WOOSLEY FIRE

(Reference is hereby made to Resolution No. 2594 on file in the LVMWD's Resolution Book and by this reference the same is incorporated herein.)

C Calleguas-Las Virgenes Interconnection Project: Approval of Scope Change No. 1 (Pg. 220)

Authorize the General Manager to approve Scope Change No. 1, in the amount of \$61,895, for Cannon Corp Engineering to provide additional construction management and inspection services for the Calleguas-Las Virgenes Interconnection Project.

8 NON-ACTION ITEMS

A Organization Reports

B Director's Reports on Outside Meetings

C General Manager Reports

(1) General Business

(2) Follow-Up Items

D Director's Comments

9 FUTURE AGENDA ITEMS

10 PUBLIC COMMENTS

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

11 CLOSED SESSION

A Conference with District Counsel – Existing Litigation (Government Code Section 54956.9(a)):

San Diego County Water Authority v. Metropolitan Water District of Southern California, et al.

12 **OPEN SESSION AND ADJOURNMENT**

Pursuant to Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and applicable federal rules and regulations, requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the Executive Assistant/Clerk of the Board in advance of the meeting to ensure availability of the requested service or accommodation. Notices, agendas, and public documents related to the Board meetings can be made available in appropriate alternative format upon request.

LAS VIRGENES MUNICIPAL WATER DISTRICT

To: LYNDA LO-HILL, TREASURER

Payments for Board Meeting of : June 1, 2021

Deputy Treasurer has verified that all checks and wire transfers were issued in conformance with LVMWD Administrative Code Section 2-6.203.

Wells Fargo Bank A/C No. 4806-994448

Checks Nos. 101157 through 101376 were issued less voids/stop payments in the total amount of **\$ 2,695,876.86**

Payments through wire transfers as follows:

4/30/2021	Metropolitian Water District	Payment for water deliveries in the month of February 2021	\$ 1,771,258.70
4/29/2021	Key Bank NA	Payment for AMI/AMR Project Debt-P&I	<u>\$ 90,675.00</u>
		Sub-Total Wires	<u>\$ 1,861,933.70</u>
		Total Payments	<u><u>\$ 4,557,810.56</u></u>

(Reference is hereby to these demands on file in the District's Check Register and by this reference the same is incorporated herein and made a part hereof.)

**CHECK LISTING FOR BOARD MEETING
06/01/21**

Company Name	Company No.	Check No. 101157 thru 101212 05/04/21	Check No. 101213 thru 101263 05/11/21	Check No. 101264 thru 101327 05/18/21	Check No. 101328 thru 101376 05/25/21	Total
		Amount	Amount	Amount	Amount	
Potable Water Operations	101	32,317.91	33,381.85	45,614.36	22,770.95	134,085.07
Recycled Water Operations	102					
Sanitation Operations	130	366.87	162.51	19,924.32	80,020.26	100,473.96
Potable Water Construction	201	253,146.55	62,267.60	504.00		315,918.15
Water Conservation Construction	203					
Sani- Construction	230					
Potable Water Replacement	301	132,898.05	29,543.65	59,647.45		222,089.15
Reclaimed Water Replace	302					
Sanitation Replacement	330	3,762.50	700.00		700.00	5,162.50
Internal Service	701	115,147.46	208,500.06	88,332.50	85,776.01	497,756.03
JPA Operations	751	225,614.09	110,444.53	114,271.24	70,357.38	520,687.24
JPA Construction	752					
JPA Replacement	754	225,023.02	692.25	601,658.51	72,662.11	900,035.89
Total Printed		988,276.45	445,692.45	929,952.38	332,286.71	2,696,207.99
Voided Checks/payment stopped:						
Check #81009	101	(250.01)				(250.01)
Check #82758	101	(81.12)				(81.12)
Total Voids		(331.13)				(331.13)
Net Total		987,945.32	445,692.45	929,952.38	332,286.71	2,695,876.86



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
700 North Alameda Street
Los Angeles, CA, 90012-2944

INVOICE

Billed To:

Las Virgenes Municipal Water District



Service Address

4232 Las Virgenes Road
Calabasas, CA 91302

February 2021	Page No 1 of 1
Mailed: 03/10/2021	Due Date: 04/30/2021
Invoice Number: 10355	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES

Volume (AF)

Total Water Treated Delivered	1,462.3
Total Water Untreated Delivered	

SALES

Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service			
Tier 1 Supply Rate	1,462.3	\$243.00	\$355,338.90
System Access Rate	1,462.3	\$373.00	\$545,437.90
System Power Rate	1,462.3	\$161.00	\$235,430.30
Treatment Surcharge	1,462.3	\$327.00	\$478,172.10
SUBTOTAL			\$1,614,379.20

OTHER CHARGES AND CREDITS

Rate (\$ /AF)

Capacity Charge(Payment Schedule: M)	\$40,927.50
Readiness To Serve Charge(Payment Schedule: M)	\$115,952.00
SUBTOTAL	\$156,879.50

ADDITIONAL INFORMATION

Volume (AF) Tier1 % Peak Day Flow (CFS)

Capacity Charge			8/9/2018	45.9
Purchase Order Firm Delivery To Date (Jan 2015 to Dec 2024)	119,728.7			
Tier 1 Annual Limit (For Current Calendar Year)	24,359.0			
Tier 1 YTD Deliveries (For Current Calendar Year)	2,626.6	10.8		
Tier 1 Current Month Deliveries	1,462.3			
Purchase Order Commitment (Jan 2015 to Dec 2024)	162,390.0			

INVOICE TOTAL

Volume AF	Amount Now Due
1,462.3	\$1,771,258.70

Approved for Payment:

John Zhao
John Zhao
3/23/21
Date

Approved for Payment

David W. Pedersen
David W. Pedersen, P.E.

PAID
Wired @ 4/30/21



KEY GOVERNMENT FINANCE, INC.
1000 S McCaslin Blvd
Superior, CO 80027-9437

Remittance Section

Account Number: 721157123
Invoice Date: 04/05/2021
Invoice Number: 4717103
Due Date: 05/01/2021
Total Amount Due: \$90,675.00

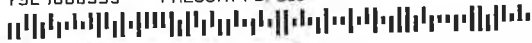


Check here for change of address (see reverse for details)

Amount Enclosed: \$ _____

Send Payment To:

7529000535 PRESORT PBPS002



LAS VIRGENES MUNICIPAL WATER DISTRICT, CA
4232 LAS VIRGENES RD
CALABASAS CA 91302-3589

KEY GOVERNMENT FINANCE, INC.
PO BOX 74238
CLEVELAND, OH 44194-4238

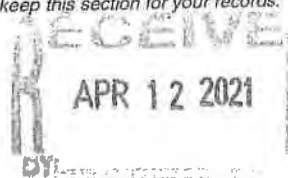


30801014760 016400004717103 09067500 9

Return upper section with your payment, keep this section for your records. Thank you for your business.



KEY GOVERNMENT FINANCE, INC.
1000 S McCaslin Blvd
Superior, CO 80027-9437



Account Number: 721157123
Invoice Date: 04/05/2021
Invoice Number: 4717103
Due Date: 05/01/2021
Total Amount Due: \$90,675.00

LAS VIRGENES MUNICIPAL WATER DISTRICT, C
4232 LAS VIRGENES RD
CALABASAS CA 91302-3589

Send Payment To:
KEY GOVERNMENT FINANCE, INC.
PO BOX 74238
CLEVELAND, OH 44194-4238

Contact Customer Service:
Phone: 800-690-2225
CustomerService@key.com
8:00 am to 5:00 pm Monday - Friday

Customer Communications

We're here to help! Please call our Customer Service representatives with any questions. We value your business and we are committed to providing you with the highest level of service.

To pay via wire, please use routing number 021300077 and account 329951040644 to Key Bank NA 1000 S. McCaslin Blvd Superior CO 80027. Please include your account name and account number in the reference information to ensure timely application of funds.

Summary

Description	05/01/2021	Total
Payment Due	\$90,675.00	\$90,675.00
Total Due	\$90,675.00	\$90,675.00

Detail

DESCRIPTION	DUE DATE	CHARGE
Contract #: 2002022412		
Description: Revenue Obligation Pledge		
Payment Due	05/01/2021	90,675.00
	SUBTOTAL:	90,675.00

TOTAL AMOUNT DUE: \$90,675.00

PAID
Wired @ 4/29/21
JC

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
101157	05/04/2021	PRTD	19269 ACC BUSINESS	211053776	3885	04/27/2021		050421	1,872.20
			Invoice: 211053776			INTERNET 3/11-4/10			
				187.22 101600	540520	Telephone			
				187.22 751820	540520	Telephone			
				561.66 751810	540520	Telephone			
				468.05 701001	540520	Telephone			
				468.05 701002	540520	Telephone			
								CHECK 101157 TOTAL:	1,872.20
101158	05/04/2021	PRTD	17361 ACCURATE FIRST AID S	B-4084	3930	04/13/2021		050421	177.50
			Invoice: B-4084			1ST AID SITE SRV-WSTLAKE			
				177.50 701430	680000	Safety			
			Invoice: B-4085						
				B-4085	3931	04/13/2021		050421	127.51
				127.51 701430	680000	1ST AID SITE SRV-HQ			
						Safety			
			Invoice: B-4086						
				B-4086	3932	04/13/2021		050421	141.20
				141.20 701430	680000	1ST AID SITE SRV-OPS			
						Safety			
								CHECK 101158 TOTAL:	446.21
101159	05/04/2021	PRTD	2317 ACORN NEWSPAPER	166978	3915	04/16/2021		050421	815.00
			Invoice: 166978			AD-EARTH DAY EVENT 4/15/21			
				815.00 751840	660400	Public Education Programs			
			Invoice: 167149						
				167149	3974	04/23/2021		050421	815.00
				815.00 751840	660400	AD-EARTH DAY EVENT 4/22/21			
						Public Education Programs			
								CHECK 101159 TOTAL:	1,630.00
101160	05/04/2021	PRTD	3077 AIRGAS USA, LLC	9112185721	3921	04/15/2021	22100105	050421	628.09
			Invoice: 9112185721			RESPIRATOR CARTRIDGE KITS			
				628.09 701	132000	Storeroom & Truck Inventory			
								CHECK 101160 TOTAL:	628.09
101161	05/04/2021	PRTD	30094 AMERICAL REALTY LLC	R2535450	3953	04/22/2021		050421	13,994.00
			Invoice: R2535450			REFUND CPCTY FEE-R2535450			
				13,994.00 701	232012	Rfdble Capacity Fees			
			Invoice: R2535450/INT						
				R2535450/INT	3954	04/22/2021		050421	385.42
				385.42 701999	860000	INT CPCTY FEE-R2535450			
						Misc Interest Expense			

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999			100100		Cash-General					
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
INVOICE DTL DESC										
								CHECK 101161 TOTAL:	14,379.42	
101162	05/04/2021	PRTD	2397 AQUATIC BIOASSAY & C	LVS0421.0313	3837	04/12/2021		050421	900.00	
			Invoice: LVS0421.0313	900.00 751810	571520	NPDES BIOASSAYS Other Laboratory Serv				
								CHECK 101162 TOTAL:	900.00	
101163	05/04/2021	PRTD	30083 AQUATIC GARDENS LLC	10747	3914	04/19/2021		050421	500.00	
			Invoice: 10747	500.00 701001	551500	POND CLEANING outside Services				
								CHECK 101163 TOTAL:	500.00	
101164	05/04/2021	PRTD	2404 ASTRA INDUSTRIAL SER	00177147	3910	04/16/2021		050421	328.83	
			Invoice: 00177147	328.83 101700	551000	BACKFLOW REPAIR PARTS Supplies/Material				
				00177146	3911	04/16/2021		050421	162.93	
			Invoice: 00177146	162.93 101700	551000	ANNL CALBRTION-BACKFLOW GAUGE Supplies/Material				
								CHECK 101164 TOTAL:	491.76	
101165	05/04/2021	PRTD	2869 AT&T	2150/042021	3993	04/20/2021		050421	51.83	
			Invoice: 2150/042021	51.83 101106	540520	SRV 04/20/21-05/19/21 Telephone				
				2430/042321	3996	04/23/2021		050421	53.47	
			Invoice: 2430/042321	53.47 101114	540520	SRV 4/23/21-5/22/21 Telephone				
				7426/042321	3998	04/23/2021		050421	51.85	
			Invoice: 7426/042321	51.85 101103	540520	SRV 4/23/21-5/22/21 Telephone				
								CHECK 101165 TOTAL:	157.15	
101166	05/04/2021	PRTD	20424 AT&T (U-VERSE INTERN	8877/041721	3965	04/17/2021		050421	64.20	
			Invoice: 8877/041721	64.20 751750	540520	BLDG #1 INTERNET 4/18-5/17/21 Telephone				
								CHECK 101166 TOTAL:	64.20	

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
101167	05/04/2021	PRTD	21056 BATTERY SYSTEMS INC	6564086	3849	04/09/2021		050421	153.60
			Invoice: 6564086	153.60 701325	551000	BATTERY-STOCK Supplies/Material			
								CHECK 101167 TOTAL:	153.60
101168	05/04/2021	PRTD	30000 BLUE VIOLET NETWORKS	72206	3912	04/14/2021		050421	235.00
			Invoice: 72206	235.00 751820	540520	INSTL LINE FR SECURITY SYS-RLV Telephone			
								CHECK 101168 TOTAL:	235.00
101169	05/04/2021	PRTD	17423 BOB MURRAY & ASSOCIA	8939	3841	04/12/2021		050421	6,637.38
			Invoice: 8939	6,637.38 701430	652200	HR MGR RECRUIT Mgmt Consultant Fees			
								CHECK 101169 TOTAL:	6,637.38
101170	05/04/2021	PRTD	30050 CANON FINANCIAL SERV	26541531	3842	04/11/2021		050421	677.81
			Invoice: 26541531	677.81 701420	620500	COPIER LEASE 4/1-4/30 Equip Rental			
								CHECK 101170 TOTAL:	677.81
101171	05/04/2021	PRTD	18107 CAROLLO ENGINEERING,	0196931	3858	04/02/2021		050421	51,083.53
			Invoice: 0196931	51,083.53 751750	541500	P/E 3/31-PWP TEST/OPS SPRY Outside Services			
								CHECK 101171 TOTAL:	51,083.53
101172	05/04/2021	PRTD	19270 COMMUNICATIONS RELAY	58909	3916	05/01/2021		050421	1,043.65
			Invoice: 58909	1,043.65 101300	570000	CASTRO PEAK SPACE RENT MAY'21 SCADA Services			
								CHECK 101172 TOTAL:	1,043.65
101173	05/04/2021	PRTD	20833 CPS HR CONSULTING	SOP52685	3870	03/26/2021		050421	890.00
			Invoice: SOP52685	890.00 701430	681000	TEST SRV-WTR DIST OPR I/II Recruitment Expense			
								CHECK 101173 TOTAL:	890.00

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
101174	05/04/2021	PRTD	20643 CSI SERVICES, INC.	10466	3880	04/04/2021		050421	1,845.00
			Invoice: 10466						
				1,845.00					
					E CIP10665 .NON-LABOR .				
					754440 900000 Capital Asset Expenses				
			Invoice: 10471	10471	3881	04/04/2021		050421	8,856.00
				8,856.00					
					SDDL PEAK INSPC SRV 2/18-3/12				
					E CIP10671 .NON-LABOR .				
					301440 900000 Capital Asset Expenses				
								CHECK 101174 TOTAL:	10,701.00
101175	05/04/2021	PRTD	2651 FAIRFIELD SERVICE CO	40382-A	3878	03/05/2021	22100007	050421	9,792.85
			Invoice: 40382-A						
				9,792.85	751810 551000				
					PIN RACK ROLLERS & BEARINGS				
					Supplies/Material				
								CHECK 101175 TOTAL:	9,792.85
101176	05/04/2021	PRTD	2654 FAMCON PIPE	S100052013.001	3922	04/15/2021	22100103	050421	1,482.63
			Invoice: S100052013.001						
				1,482.63	701 132000				
					PVC COUPLINGS & PIPES				
					Storeroom & Truck Inventory				
								CHECK 101176 TOTAL:	1,482.63
101177	05/04/2021	PRTD	2655 FERGUSON ENTERPRISES	0754369	3847	04/12/2021	22100101	050421	5,133.53
			Invoice: 0754369						
				5,133.53	701 132000				
					COUPLINGS				
					Storeroom & Truck Inventory				
			Invoice: 0735680	0735680	3907	10/15/2020		050421	405.16
				405.16	701224 551000				
					E-CODER REGISTERS FR CMPD METER				
					Supplies/Material				
			Invoice: 0754204	0754204	3913	04/14/2021		050421	169.40
				169.40	701224 551000				
					METER GASKETS				
					Supplies/Material				
			Invoice: 0754204-1	0754204-1	3935	04/24/2021		050421	18.32
				18.32	701224 551000				
					THIN METER GASKET				
					Supplies/Material				
			Invoice: 0754207	0754207	3936	04/21/2021		050421	235.43
				235.43	701224 551000				
					RND METER GASKET				
					Supplies/Material				

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
								CHECK 101181 TOTAL:	32,319.13
101182	05/04/2021	PRTD	6770 G.I. INDUSTRIES	2534181-0283-1	3883	04/01/2021		050421	680.40
Invoice: 2534181-0283-1				680.40 751810	541500	4/21 DISP-TAPIA GRIT			
						Outside Services			
Invoice: 2534180-0283-3				2534180-0283-3	3884	04/01/2021		050421	756.34
				756.34 751810	551800	4/21 DISP-TAPIA			
						Building Maintenance			
Invoice: 2982095-0283-0				2982095-0283-0	3908	04/16/2021		050421	538.78
				538.78 701002	551500	4/1/21-4/15/21 SHOP BLDG			
						Outside Services			
Invoice: 2534194-0283-4				2534194-0283-4	3917	04/01/2021		050421	500.05
				500.05 751810	541500	3/16-3/31 TAPIA RAGS DISP			
						Outside Services			
Invoice: 2534215-0283-7				2534215-0283-7	3920	04/16/2021		050421	519.65
				519.65 751810	541500	4/1-4/15 TAPIA RAGS DISP			
						Outside Services			
								CHECK 101182 TOTAL:	2,995.22
101183	05/04/2021	PRTD	7421 HAMNER, JEWELL AND A	200838	3855	04/07/2021		050421	2,268.75
Invoice: 200838				2,268.75		P/E 3/31 TWIN LAKES P/S			
Invoice: 200844				200844	3856	04/07/2021		050421	6,822.50
				6,822.50		P/E 3/31-EMGCY GENERATORS			
								CHECK 101183 TOTAL:	9,091.25
101184	05/04/2021	PRTD	10102 INFOSEND INC.	187415	3818	02/28/2021		050421	9,255.54
Invoice: 187415				9,255.54 701221	622000	2/3-2/28 BILL PMT MAILING			
						Outside Services			
Invoice: 189786				189786	3840	04/15/2021		050421	150.81
				150.81 701221	622000	STATEMENT FORMS			
						Outside Services			
Invoice: 189146				189146	3860	03/31/2021		050421	10,269.72
				10,269.72 701221	622000	P/E 3/31 BILL PMT MAILING			
						Outside Services			

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
CHECK 101184 TOTAL: 19,676.07					
101185 05/04/2021 PRD 2611 LA DWP Invoice: 851260/042721	851260/042721	4001	04/27/2021	050421	42.96
	42.96 101700	540510	RECTIFIER 3/29/21-4/27/21 Energy		
Invoice: 875698/042721	875698/042721	4002	04/27/2021	050421	10,204.21
	10,204.21 101106	540510	TWIN LAKES P/S 3/17/21-4/19/21 Energy		
CHECK 101185 TOTAL: 10,247.17					
101186 05/04/2021 PRD 20736 NATIONWIDE Invoice: BD7900692571	BD7900692571	3869	03/29/2021	050421	250.00
	250.00 701112	651600	SURETY BOND 5/27/21-5/26/22 Other Professional Serv		
CHECK 101186 TOTAL: 250.00					
101187 05/04/2021 PRD 16372 OLIN CORPORATION Invoice: 2951327	2951327	3835	04/01/2021	050421	4,383.98
	4,383.98 751810	541014	5,022 GAL HYPOCHLORITE Sodium Hypochlorite		
Invoice: 2953806	2953806	3836	04/08/2021	050421	4,223.36
	4,223.36 751810	541014	4,838 GAL HYPOCHLORITE Sodium Hypochlorite		
CHECK 101187 TOTAL: 8,607.34					
101188 05/04/2021 PRD 21659 ONTARIO REFRIGERATIO Invoice: GW19424	GW19424	3939	04/16/2021	050421	521.43
	521.43 751810	551800	A/C REPAIR@TAPIA Building Maintenance		
CHECK 101188 TOTAL: 521.43					
101189 05/04/2021 PRD 15824 OUTBACK FOOTWEAR Invoice: 44426	44426	3871	02/03/2021	050421	225.00
	225.00 701342	623000	SAFETY FOOTWEAR-J. UCEDA Safety Equip		
CHECK 101189 TOTAL: 225.00					
101190 05/04/2021 PRD 18946 PACIFIC ADVANCED CIV Invoice: 4790	4790	3853	03/31/2021	050421	612.50
	612.50		P/E 3/31-DIGSTR 2 REHAB		
		E CIP10680	NON-LABOR		
	754440	900000	Capital Asset Expenses		

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC					
				CHECK 101190 TOTAL:	612.50
101191 05/04/2021 PRD Invoice: 2082541	2871 PACIFIC COAST BOLT	2082541	3937	04/15/2021	050421 58.72
	58.72 101900	572500	3/4"	FINISHED NUTS Genl Supplies/Small Tools	
				CHECK 101191 TOTAL:	58.72
101192 05/04/2021 PRD Invoice: 204779	21594 RECYCLED WOOD PRODUC	204779	3801	01/28/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 204881	204881		3802	01/29/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 204960	204960		3803	02/01/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 205005	205005		3804	02/02/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 205052	205052		3805	02/03/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 205107	205107		3806	02/04/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 205166	205166		3807	02/05/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 205281	205281		3808	02/08/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 205320	205320		3809	02/09/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
Invoice: 205361	205361		3810	02/10/2021	050421 1,545.70
	1,545.70 751820	541080	130	YDS WOODCHIPS Amendment	
	205410		3811	02/11/2021	050421 1,545.70

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
Invoice: 205410				1,545.70 751820	541080	130 YDS WOODCHIPS Amendment			
				205465	3812	02/12/2021		050421	1,545.70
Invoice: 205465				1,545.70 751820	541080	130 YDS WOODCHIPS Amendment			
				205581	3813	02/15/2021		050421	1,545.70
Invoice: 205581				1,545.70 751820	541080	130 YDS WOODCHIPS Amendment			
				205695	3814	02/17/2021		050421	1,545.70
Invoice: 205695				1,545.70 751820	541080	130 YDS WOODCHIPS Amendment			
				205785	3815	02/19/2021		050421	1,545.70
Invoice: 205785				1,545.70 751820	541080	130 YDS WOODCHIPS Amendment			
				205908	3816	02/22/2021		050421	1,545.70
Invoice: 205908				1,545.70 751820	541080	130 YDS WOODCHIPS Amendment			
				206005	3817	02/24/2021		050421	1,545.70
Invoice: 206005				1,545.70 751820	541080	130 YDS WOODCHIPS Amendment			
				208266	3838	04/14/2021		050421	1,820.00
Invoice: 208266				1,820.00 751820	541080	130 YDS WOODCHIPS-1/4" Amendment			
				208503	3839	04/19/2021		050421	1,820.00
Invoice: 208503				1,820.00 751820	541080	130 YDS WOODCHIPS-1/4" Amendment			
							CHECK	101192 TOTAL:	29,916.90
101193	05/04/2021	PRTD	20124 RON'S PORTABLE WELDI	6767	3877	03/28/2021	22100048	050421	4,440.41
	Invoice: 6767			4,440.41 751820	551500	AMENDMENT HOPPER SCREENING outside Services			
							CHECK	101193 TOTAL:	4,440.41
101194	05/04/2021	PRTD	20898 SDI PRESENCE LLC	6373	3879	03/31/2021		050421	3,762.50
	Invoice: 6373			3,762.50		P/E 3/31 ERP IMPLEMENTATION			
					E CIP10663	.NON-LABOR			
					330440	900000			Capital Asset Expenses

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999			100100		Cash-General					
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
INVOICE DTL DESC										
								CHECK 101194 TOTAL:	3,762.50	
101195	05/04/2021	PRTD	2958 SOUTHERN CALIFORNIA	8400/042321	3909	04/23/2021		050421	14.30	
			Invoice: 8400/042321							
				14.30 101101	540530	CONDUIT 3/23/21-4/21/21				
						Gas				
								CHECK 101195 TOTAL:	14.30	
101196	05/04/2021	PRTD	3826 SULLY MILLER CONTRAC	10556/PMT#3	3933	03/26/2021		050421	238,166.90	
			Invoice: 10556/PMT#3							
				238,166.90		PMT#3-INTERCONNECTN P/E 3/26/21				
						E CIP10556 .NON-LABOR .				
						201440 900000 Capital Asset Expenses				
								CHECK 101196 TOTAL:	238,166.90	
101197	05/04/2021	PRTD	20950 TERRAVERDE ENERGY LL	832-REV	3873	12/31/2020		050421	34,350.00	
			Invoice: 832-REV							
				22,900.00 751840	651600	P/E 12/31/20 BESS FEASIBILITY STUDY				
				11,450.00 101100	541500	Other Professional Serv				
						Outside Services				
								CHECK 101197 TOTAL:	34,350.00	
101198	05/04/2021	PRTD	21137 TESLA, INC.	19820970	4023	04/02/2021		050421	14,993.16	
			Invoice: 19820970							
				7,496.58 751127	540510	RW P/S-MAR'21 142792KWH				
				7,496.58 751128	540510	Energy				
						Energy				
								CHECK 101198 TOTAL:	14,993.16	
101199	05/04/2021	PRTD	12149 THATCHER CO. OF CALI	283032	3834	04/09/2021		050421	6,328.59	
			Invoice: 283032							
				6,328.59 751810	541011	4,056.8 GAL SODIUM BISULFITE				
						Sodium Bisulfite				
								CHECK 101199 TOTAL:	6,328.59	
101200	05/04/2021	PRTD	21599 THE ROVISYS COMPANY	67048	3783	04/05/2021		050421	222,565.52	
			Invoice: 67048							
				222,565.52		P/E 3/31 SCADA UPDATE				
						E CIP10567 .NON-LABOR .				
						754440 900000 Capital Asset Expenses				
								CHECK 101200 TOTAL:	222,565.52	

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
101201	05/04/2021	PRTD	17645 TORO ENTERPRISES INC	14497	3782	03/31/2021		050421	36,618.30
			Invoice: 14497						
				36,618.30 751700	551500	PIPELINE RPR-31822 VLG CNTR RD.			
						Outside Services			
			Invoice: 14466	14466	3874	02/28/2021		050421	14,699.33
				14,699.33 751820	551500	COMPOST RELOCATION 2/1-2/5			
						Outside Services			
			Invoice: 14495	14495	3875	03/31/2021		050421	7,122.92
				7,122.92 751820	551500	PIPELINE RPRS RANCH ENTRY			
						Outside Services			
			Invoice: 14496	14496	3876	03/31/2021		050421	4,698.04
				4,698.04 751820	551500	PIPELINE RPRS HEAT LOOP			
						Outside Services			
							CHECK	101201 TOTAL:	63,138.59
101202	05/04/2021	PRTD	20880 TPX COMMUNICATIONS	142409808-0	3872	04/16/2021		050421	6,051.21
			Invoice: 142409808-0						
				1,879.07 701001	540520	SRV 4/16-5/15			
				200.00 101104	540520	Telephone			
				182.87 101107	540520	Telephone			
				166.87 130100	540520	Telephone			
				200.00 101110	540520	Telephone			
				1,124.30 101600	540520	Telephone			
				1,147.10 751820	540520	Telephone			
				200.00 130100	540520	Telephone			
				951.00 751810	540520	Telephone			
							CHECK	101202 TOTAL:	6,051.21
101203	05/04/2021	PRTD	21593 TRIAD CONSULTING & S	599	3854	04/09/2021		050421	5,489.64
			Invoice: 599						
				5,489.64 701420	651600	P/E 3/12 SEC ASSESSMENT			
						Other Professional Serv			
							CHECK	101203 TOTAL:	5,489.64
101204	05/04/2021	PRTD	30055 U.S. BANK NATIONAL A	RTN#2-10556	3893	02/26/2021		050421	12,710.90
			Invoice: RTN#2-10556						
				12,710.90 201	201000	RNT#2-SULLY MILLER A/C 267520000			
						Contract Retainage			
							CHECK	101204 TOTAL:	12,710.90
101205	05/04/2021	PRTD	3006 UNDERGROUND SERVICE	420210421	4003	05/01/2021		050421	358.15
			Invoice: 420210421						
				358.15 101700	551500	211 TICKETS-APR'21			
						Outside Services			

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
Invoice: DSB20202119				DSB20202119	4004	05/01/2021		050421	154.69
				154.69 101700	551500	DIG SAFE PERMIT FEE-APR'21 Outside Services			
								CHECK 101205 TOTAL:	512.84
101206	05/04/2021	PRTD	3429 UNITED PARCEL SERVIC	000025W020151	3938	04/10/2021		050421	69.24
Invoice: 000025W020151				69.24 701410	620000	SHIPPING CHGES-2 PCKGES 2/11 & EXT FEE Forms, Supplies And Postage			
								CHECK 101206 TOTAL:	69.24
101207	05/04/2021	PRTD	2325 UNITED RENTALS, INC	191732060-001	3882	04/03/2021		050421	6,280.93
Invoice: 191732060-001				6,280.93 101100	551000	GENRTR 3/12-4/9 SDDL PEAK REHAB Supplies/Material			
								CHECK 101207 TOTAL:	6,280.93
101208	05/04/2021	PRTD	3035 VWR SCIENTIFIC	8804392844	3923	04/12/2021		050421	285.60
Invoice: 8804392844				285.60 701341	551000	FILTERS Supplies/Material			
Invoice: 8804386324				8804386324	3924	04/12/2021		050421	225.03
				225.03 701341	551000	CULTURE TUBES Supplies/Material			
Invoice: 8804424141				8804424141	3925	04/14/2021		050421	39.91
				39.91 701341	551000	FLASK BRUSHES Supplies/Material			
Invoice: 8804462625				8804462625	3926	04/19/2021		050421	447.44
				447.44 701341	551000	LAURYL TRYPTOSE BROTH Supplies/Material			
Invoice: 8804450306				8804450306	3927	04/16/2021		050421	576.55
				576.55 701341	551000	SMALL NITRILE GLOVES Supplies/Material			
Invoice: 8804428948				8804428948	3928	04/15/2021		050421	385.17
				385.17 701341	551000	KIMWIPES Supplies/Material			
								CHECK 101208 TOTAL:	1,959.70
101209	05/04/2021	PRTD	18914 WECK LABORATORIES, I	W1C2065-LV	3777	03/30/2021		050421	25.00
Invoice: W1C2065-LV				25.00 701341	551500	DIONIZED WATER Outside Services			

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
Invoice: w1D0113-LV				w1D0113-LV	3824	04/02/2021		050421	158.00
				158.00 751830	571520	RLV GROUNDWATER-1C24032 Other Laboratory Serv			
Invoice: w1D0114-LV				w1D0114-LV	3825	04/02/2021		050421	686.00
				686.00 751830	571520	RLV GROUNDWATER-1C17057 Other Laboratory Serv			
Invoice: w1D0115-LV				w1D0115-LV	3826	04/02/2021		050421	167.00
				167.00 101600	571520	WESTLAKE-1B09070 Other Laboratory Serv			
Invoice: w1D0117-LV				w1D0117-LV	3827	04/02/2021		050421	380.00
				380.00 751810	571520	TAPIA EFFLNT-1C09106 Other Laboratory Serv			
Invoice: w1D0118-LV				w1D0118-LV	3828	04/02/2021		050421	145.00
				145.00 751810	571520	TAPIA EFFLNT-1B09076 Other Laboratory Serv			
Invoice: w1D0119-LV				w1D0119-LV	3829	04/02/2021		050421	120.00
				120.00 751810	571520	TAPIA EFFLNT-1B26026 Other Laboratory Serv			
Invoice: w1D0120-LV				w1D0120-LV	3830	04/02/2021		050421	120.00
				120.00 751810	571520	TAPIA EFFLNT-1B26025 Other Laboratory Serv			
Invoice: w1D0355-LV				w1D0355-LV	3831	04/05/2021		050421	3,930.00
				3,930.00 751810	571520	MALIBU CREEK-1C09104 Other Laboratory Serv			
Invoice: w1D0715-LV				w1D0715-LV	3832	04/09/2021		050421	145.00
				145.00 751810	571520	TAPIA EFFLNT-1C09107 Other Laboratory Serv			
Invoice: w1D0716-LV				w1D0716-LV	3833	04/09/2021		050421	25.00
				25.00 701341	551500	DIONIZED WATER-1C09108 Outside Services			
								CHECK 101209 TOTAL:	5,901.00
101210 05/04/2021 PRD			3047 WESCO DISTRIBUTION,	087156	3848	04/12/2021		050421	74.67
Invoice: 087156				74.67 751820	551000	WIRE Supplies/Material			
								CHECK 101210 TOTAL:	74.67

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC					
101211 05/04/2021 PRTD Invoice: P1092450	16631 XEBEC CONSTRCTION LT P1092450	3957	04/07/2021	050421	14,000.00
	14,000.00		REFUND CONN SWR-P1092450		
	E P1092450 .CONN-SWR .2310.10 701 231010 PPD Conn Fees-Sewer				
Invoice: P1092450/INT	P1092450/INT	3959	04/07/2021	050421	2,359.25
	2,359.25 701999 860000		INT CONN SWR-P1092450 Misc Interest Expense		
			CHECK	101211 TOTAL:	16,359.25
101212 05/04/2021 PRTD Invoice: 013133095	3067 XEROX CORPORATION	013133095	3941	04/12/2021	050421
	572.79 701420 620500		D95CP RENT-MAR21@HQ 1ST FL Equip Rental		572.79
Invoice: 013133094	013133094	3944	04/12/2021	050421	674.37
	674.37 701420 620500		D95CP RENT-MAR21@HQ 2ND FL Equip Rental		
Invoice: 013133096	013133096	3946	04/12/2021	050421	218.76
	218.76 701420 620500		5845A RENT-MAR21@TAPIA Equip Rental		
Invoice: 013133097	013133097	3949	04/12/2021	050421	877.66
	877.66 701420 620500		COLOR XC60 RENT-MAR21@HQ Equip Rental		
Invoice: 013048109	013048109	3951	04/12/2021	050421	151.13
	151.13 701420 620500		C70EFI CPU RENT-MAR21@HQ Equip Rental		
			CHECK	101212 TOTAL:	2,494.71
	NUMBER OF CHECKS	56	*** CASH ACCOUNT TOTAL ***		988,276.45
	TOTAL PRINTED CHECKS	COUNT	AMOUNT		
		56	988,276.45		
			*** GRAND TOTAL ***		988,276.45

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
Invoice: 405345				405345	4010	04/21/2021		051121	48.40
				48.40 701410	620000	4/21 COFFEE SRV-TAPIA Forms, Supplies And Postage			
								CHECK 101224 TOTAL:	312.41
101225	05/11/2021	PRTD	6770 G.I. INDUSTRIES	2982295-0283-6	4028	05/01/2021		051121	800.94
Invoice: 2982295-0283-6				266.95 701001	551500	5/21 HQ & SHOP DISP			
				533.99 701002	551500	Outside Services			
Invoice: 2982294-0283-9				2982294-0283-9	4041	05/01/2021		051121	96.64
				96.64 751830	551500	5/21 DISP RLV FARM			
						Outside Services			
Invoice: 2982293-0283-1				2982293-0283-1	4042	05/01/2021		051121	96.64
				96.64 751820	551800	5/21 DISP RLV			
						Building Maintenance			
Invoice: 2982455-0283-6				2982455-0283-6	4135	05/03/2021		051121	1,241.55
				1,241.55 701002	551500	4/16-4/30/21 SHOP BLDG			
						Outside Services			
								CHECK 101225 TOTAL:	2,235.77
101226	05/11/2021	PRTD	2701 GRAINGER	9838633452	3894	03/16/2021		051121	27.39
Invoice: 9838633452				27.39 701326	572500	SCREWDRIVER SET			
						Genl Supplies/Small Tools			
Invoice: 9838900075				9838900075	3897	03/16/2021		051121	18.67
				18.67 101900	572500	PROCEDURAL MASKS			
						Genl Supplies/Small Tools			
Invoice: 9842895428				9842895428	3898	03/19/2021		051121	397.99
				397.99 751810	551000	PIPE TAPE & LABEL RIBBON			
						Supplies/Material			
Invoice: 9844236514				9844236514	3899	03/22/2021		051121	932.14
				932.14 701341	551000	SAFETY CABINET			
						Supplies/Material			
Invoice: 9844722869				9844722869	3900	03/22/2021		051121	33.58
				33.58 130100	551000	CONNECTORS			
						Supplies/Material			
Invoice: 9839813327				9839813327	3901	03/17/2021		051121	8.99
				8.99 130100	551000	V-BELT			
						Supplies/Material			
				9847629160	3902	03/24/2021		051121	152.45

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
Invoice: 9847629160	152.45 751820 551000	WALL BASE Supplies/Material			
Invoice: 9847738268	9847738268 3903	03/24/2021 DRYWALL SUPPLIES		051121	154.05
	154.05 751820 551000	Supplies/Material			
Invoice: 9847713089	9847713089 3904	03/24/2021 CHAIN LUBE,RUBBER DRSSNG,CLEAR CEMENT		051121	277.77
	277.77 101900 572500	Genl Supplies/Small Tools			
Invoice: 9850088742	9850088742 3905	03/26/2021 DRILL BITS		051121	87.09
	87.09 701322 572500	Genl Supplies/Small Tools			
Invoice: 9856420709	9856420709 3966	04/01/2021 IGNITION TRANSFORMER		051121	355.46
	355.46 751820 551000	Supplies/Material			
Invoice: 9856420717	9856420717 3967	04/01/2021 IGNITION WIRE		051121	126.07
	126.07 751820 551000	Supplies/Material			
Invoice: 9858679369	9858679369 3968	04/05/2021 FLUSH VALVE		051121	432.56
	432.56 701002 551000	Supplies/Material			
Invoice: 9859704398	9859704398 3988	04/06/2021 V-BELTS		051121	12.57
	12.57 751820 551000	Supplies/Material			
Invoice: 9861416775	9861416775 3989	04/07/2021 EXHAUST VENT		051121	468.40
	468.40 751810 551000	Supplies/Material			
Invoice: 9861416783	9861416783 3990	04/07/2021 SMALL TOOLS		051121	218.91
	218.91 751820 551000	Supplies/Material			
Invoice: 9864069688	9864069688 3991	04/09/2021 VACUUM BREAKER ASSEMBLY		051121	29.14
	29.14 701002 551000	Supplies/Material			
Invoice: 9862733566	9862733566 3992	04/08/2021 MAGNETIC HANGER		051121	89.96
	89.96 701326 572500	Genl Supplies/Small Tools			
Invoice: 9863019064	9863019064 3994	04/08/2021 MAGNETIC HANGER		051121	58.63
	58.63 701326 572500	Genl Supplies/Small Tools			
	9864862348 3995	04/12/2021		051121	21.74

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999	100100	Cash-General								
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
				INVOICE DTL DESC						
Invoice: 9864862348				21.74 751750	541000					
				9866154884	3999	04/12/2021		051121	20.80	
Invoice: 9866154884				20.80 751810	551000					
								CHECK 101226 TOTAL:	3,924.36	
101227 05/11/2021 PRD		18646 HDR ENGINEERING, INC	1200331671		4096	03/08/2021		051121	2,657.50	
Invoice: 1200331671				2,657.50 101700	571020	P/E 2/27-ALT WTR STUDY-BELL Tech Svc-All Other		CYN		
				1200337995	4098	04/05/2021		051121	1,755.00	
Invoice: 1200337995				1,755.00 101700	571020	P/E 3/27-ALT WTR STUDY-BELL Tech Svc-All Other		CYN		
								CHECK 101227 TOTAL:	4,412.50	
101228 05/11/2021 PRD		30087 ELIZABETH HIGGINS	043453		3979	04/21/2021		051121	14.57	
Invoice: 043453				14.57 101	230500	RFND CR BAL-CLOSED A/C Deposit Refd Clearing-Billing				
								CHECK 101228 TOTAL:	14.57	
101229 05/11/2021 PRD		2997 J G TUCKER & SONS	15510		4084	04/22/2021		051121	1,021.97	
Invoice: 15510				1,021.97 701321	623000	GAS ALERT DETECTOR Safety Equip				
								CHECK 101229 TOTAL:	1,021.97	
101230 05/11/2021 PRD		5230 KENNEDY/JENKS CONSUL	146409		3958	04/16/2021		051121	48,937.50	
Invoice: 146409				48,937.50		P/E 4/2-TWIN LAKES P/S DSGN				
								CHECK 101230 TOTAL:	48,937.50	
101231 05/11/2021 PRD		3352 LAS VIRGENES MUNICIP	0254/042121		3986	04/21/2021		051121	62.27	
Invoice: 0254/042121				62.27 101108	540540	JED SMITH P/S 3/8/21-4/12/21 Water				
				2080/042121	3987	04/21/2021		051121	195.30	
Invoice: 2080/042121				195.30 751830	540540	RLV FARM 3/11/21-4/13/21 Water				

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
INVOICE DTL DESC						
Invoice: 0570/042121	0570/042121	4011	04/21/2021	051121	61.80	
	61.80 130100	540540	L/S#2 3/11/21-4/15/21 water			
Invoice: 1760/042121	1760/042121	4012	04/21/2021	051121	535.68	
	535.68 751810	540540	TAPIA 3/11/21-4/13/21 water			
Invoice: 2090/042121	2090/042121	4013	04/21/2021	051121	914.28	
	914.28 751820	540540	RLV 3/11/21-4/13/21 water			
Invoice: 2620/042121	2620/042121	4014	04/21/2021	051121	345.23	
	345.23 751750	540540	HQ PWP/DEMO 3/11/21-4/13/21 water			
Invoice: 2647/042121	2647/042121	4015	04/21/2021	051121	337.91	
	337.91 701001	540540	HQ BLDG #8 3/11/21-4/13/21 water			
Invoice: 2650/042121	2650/042121	4016	04/21/2021	051121	7.50	
	7.50 701001	540540	FIRE PRTCN #8 3/11/21-4/13/21 water			
Invoice: 2654/042121	2654/042121	4017	04/21/2021	051121	7.50	
	7.50 701002	540540	FIRE PRTCN #7 3/11/21-4/13/21 water			
Invoice: 2656/042121	2656/042121	4018	04/21/2021	051121	880.07	
	880.07 701002	540540	BLDG #7 3/11/21-4/13/21 water			
Invoice: 2658/042121	2658/042121	4019	04/21/2021	051121	376.78	
	376.78 701002	540540	BLDG #2 3/11/21-4/13/21 water			
Invoice: 2120/042121	2120/042121	4020	04/21/2021	051121	159.11	
	159.11 751820	540540	SOLAR LANDSCAPING 3/11/21-4/13/21 water			
Invoice: 1775/042121	1775/042121	4021	04/21/2021	051121	58.14	
	58.14 130100	540540	L/S #1 3/11/21-4/15/21 water			
CHECK 101231 TOTAL:					3,941.57	
101232 05/11/2021 PRD Invoice: R0353650	30098 SEAN MCCOLL	R0353650	4092	05/04/2021	051121	500.00
	500.00 701	232013	REFUND DEV FEE-R0353650 Rfdb1e Developer Fees			
	R0353650/INT	4093	05/04/2021	051121	13.77	

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
				INVOICE DTL DESC					
Invoice: R0353650/INT				13.77	701999	860000			
									INT DEV FEE-R0353650
									Misc Interest Expense
								CHECK 101232 TOTAL:	513.77
101233	05/11/2021	PRTD	2814 MCMaster-CARR SUPPLY	56927077		3981	04/20/2021	051121	73.73
Invoice: 56927077				73.73	751820	551000			KEY STOCK FR AGITATOR
									Supplies/Material
Invoice: 56942769				56942769		3982	04/20/2021	051121	202.91
				202.91	751810	551000			RIVET NUTS/ALUM Z-BAR
									Supplies/Material
Invoice: 57422185				57422185		4079	04/28/2021	051121	287.72
				287.72	751810	551000			ALUM Z-BAR/RUBER SEAL
									Supplies/Material
Invoice: 57270731				57270731		4080	04/26/2021	051121	143.29
				143.29	751800	551000			STUD ANCHOR FOR CONCRETE
									Supplies/Material
Invoice: 57320360				57320360		4081	04/27/2021	051121	-32.44
				-32.44	751810	551000			RTN ALUM Z-BAR INV#56942769
									Supplies/Material
Invoice: 57342632				57342632		4082	04/27/2021	051121	99.88
				99.88	751820	551000			CMPRESS AIR DRAIN VALVE
									Supplies/Material
								CHECK 101233 TOTAL:	775.09
101234	05/11/2021	PRTD	2839 MOTION INDUSTRIES, I	CA22-705538		3970	04/14/2021	051121	146.34
Invoice: CA22-705538				146.34	751820	551000			V-BELTS
									Supplies/Material
Invoice: CA22-705669				CA22-705669		3971	04/16/2021	051121	648.32
				648.32	751810	551000			FILTERS
									Supplies/Material
Invoice: CA22-705473				CA22-705473		3972	04/13/2021	051121	3,140.19
				3,140.19	751820	551000			FLANGES
									Supplies/Material
Invoice: CA22-705489				CA22-705489		3973	04/14/2021	051121	114.98
				114.98	751810	551000			FILTERS
									Supplies/Material
								CHECK 101234 TOTAL:	4,049.83

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
101235	05/11/2021	PRTD	2302 OFFICE DEPOT	166507238001	4005	04/08/2021		051121	155.94
			Invoice: 166507238001	155.94 701410	620000	MISC OFFICE SUPPLIES Forms, Supplies And Postage			
			Invoice: 166512190001	166512190001	4006	04/08/2021		051121	40.27
				40.27 701410	620000	MEMO BOOKS Forms, Supplies And Postage			
			Invoice: 162589308001	162589308001	4033	04/26/2021		051121	482.15
				482.15 701410	620000	PAPER & MISC OFFICE SUPPLIES Forms, Supplies And Postage			
			Invoice: 162589308002	162589308002	4034	04/28/2021		051121	7.33
				7.33 701410	620000	INK STAMP Forms, Supplies And Postage			
			Invoice: 165399123001	165399123001	4035	04/24/2021		051121	5.68
				5.68 701410	620000	INK STAMP Forms, Supplies And Postage			
								CHECK 101235 TOTAL:	691.37
101236	05/11/2021	PRTD	16372 OLIN CORPORATION	2956623	3950	04/15/2021		051121	4,298.43
			Invoice: 2956623	4,298.43 751810	541014	4,924 GAL HYPOCHLORITE Sodium Hypochlorite			
			Invoice: 2959496	2959496	3952	04/22/2021		051121	4,256.53
				4,256.53 751810	541014	4,876 GAL HYPOCHLORITE Sodium Hypochlorite			
								CHECK 101236 TOTAL:	8,554.96
101237	05/11/2021	PRTD	30088 CARLOS OROZCO	073758	4000	04/21/2021		051121	59.98
			Invoice: 073758	59.98 101	230500	RFND CR BAL-CLOSED A/C Deposit Refd Clearing-Billing			
								CHECK 101237 TOTAL:	59.98
101238	05/11/2021	PRTD	8506 PADRE ASSOCIATES, IN	2021-627	3906	04/08/2021		051121	795.00
			Invoice: 2021-627	795.00		P/E 3/31 PSA/CALLGS INTRCNT			
					E CIP10556 .NON-LABOR .				
				201440 900000		Capital Asset Expenses			
								CHECK 101238 TOTAL:	795.00

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General											
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET						
													INVOICE DTL DESC		
								CHECK	101243 TOTAL:	1,090.21					
101244	05/11/2021	PRTD	2948 SMITH PIPE & SUPPLY	3735911	3983	04/19/2021		051121	24.00						
Invoice: 3735911				24.00	701001	551000	VALVE FOR HQ GARDEN Supplies/Material								
Invoice: 3740029				3740029		4085	04/27/2021	051121	57.90						
				57.90	701001	551000	GRASS SHEETS FOR GARDEN Supplies/Material								
								CHECK	101244 TOTAL:	81.90					
101245	05/11/2021	PRTD	2957 SOUTHERN CALIFORNIA	775690/042721	4086	04/27/2021		051121	1,269.81						
Invoice: 775690/042721				1,269.81	751750	540510	BLDG#1 HM-PWP 3/23~4/22/21 Energy								
								CHECK	101245 TOTAL:	1,269.81					
101246	05/11/2021	PRTD	2957 SOUTHERN CALIFORNIA	777683/042721	4087	04/27/2021		051121	15.89						
Invoice: 777683/042721				15.89	751750	540510	BLDG#1 EV-PWP 3/23~4/22/21 Energy								
								CHECK	101246 TOTAL:	15.89					
101247	05/11/2021	PRTD	2957 SOUTHERN CALIFORNIA	445743/050421	4136	05/04/2021		051121	46,995.00						
Invoice: 445743/050421				23,497.50	751127	540510	RW P/S 4/1~4/29/21 NEM Energy								
				23,497.50	751128	540510	Energy								
								CHECK	101247 TOTAL:	46,995.00					
101248	05/11/2021	PRTD	2958 SOUTHERN CALIFORNIA	1200/050521	4137	05/05/2021		051121	19.56						
Invoice: 1200/050521				19.56	101109	540530	JBR P/S 4/2/21-5/3/21 3 Gas	THERMS							
								CHECK	101248 TOTAL:	19.56					
101249	05/11/2021	PRTD	30089 RUDOLPH STABACK	024552	3980	04/21/2021		051121	10.93						
Invoice: 024552				10.93	101	230500	RFND CR BAL-CLOSED A/C Deposit Refd Clearing-Billing								
								CHECK	101249 TOTAL:	10.93					

Las Virgenes Municipal Water District



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CASH ACCOUNT:	999	100100	Cash-General									
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET			
INVOICE DTL DESC												
101250	05/11/2021	PRTD	20648 STANTEC CONSULTING S	1776673	3892	04/15/2021		051121	7,135.50			
Invoice: 1776673				7,135.50	701350	622000	P/E 3/19-2020 UWMP					
							Outside Services					
								CHECK	101250 TOTAL:	7,135.50		
101251	05/11/2021	PRTD	20971 THOUSAND OAKS PLUMBI	40835143	3984	04/27/2021		051121	410.00			
Invoice: 40835143				410.00	101902	551500	CLEAN DRAIN LN IN TENANT SPACE					
							Outside Services					
Invoice: 40476863				40476863		3985	04/23/2021	051121	766.00			
							INSTL UPG E-SHOWER					
							Building Maintenance					
								CHECK	101251 TOTAL:	1,176.00		
101252	05/11/2021	PRTD	17645 TORO ENTERPRISES INC	RTN RELEASE/10708	4067	04/14/2021		051121	25,006.85			
Invoice: RTN RELEASE/10708				25,006.85	301	201000	RTN RLS-JIM BRDG/LNG VLY PRJ					
							Contract Retainage					
Invoice: RTN RELEASE/10708				RTN RELEASE/10708	4068	04/14/2021		051121	3,844.55			
							RTN RLS-JIM BRDG/LNG VLY PRJ					
							Contract Retainage					
							Contract Retainage					
							Contract Retainage					
								CHECK	101252 TOTAL:	28,851.40		
101253	05/11/2021	PRTD	21252 TYLER TECHNOLOGIES,	045-335980	3886	04/09/2021		051121	700.00			
Invoice: 045-335980				700.00			ERP IMPLEMENTATION 3/31					
							E CIP10663 .NON-LABOR .					
							330440 900000					
							Capital Asset Expenses					
Invoice: 045-335786				045-335786	4027	04/01/2021		051121	186,525.01			
							SUPPORT & MIANT 4/1/21-3/31/22					
							Equip Maintenance					
								CHECK	101253 TOTAL:	187,225.01		
101254	05/11/2021	PRTD	30055 U.S. BANK NATIONAL A	RTN#3/10556	4077	03/26/2021		051121	12,535.10			
Invoice: RTN#3/10556				12,535.10	201	201000	RTN#3 SULLY MILLER A/C 267520000					
							Contract Retainage					
								CHECK	101254 TOTAL:	12,535.10		

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999	100100	Cash-General							
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
Invoice: 21017				7,208.00 751810	678800	SPRAYFIELD 4/19-4/23 District Sprayfield			
				21018	4026	05/03/2021		051121	7,755.00
Invoice: 21018				7,755.00 751810	678800	SPRAYFIELD 4/26-4/30 District Sprayfield			
									CHECK 101259 TOTAL:
									21,696.90
101260	05/11/2021	PRTD	30099 WAISMAN CONSTRUCTION	R2890050	4094	05/03/2021		051121	350.34
Invoice: R2890050				350.34 701	232013	REFUND DEV FEE-R2890050 Rfdblc Developer Fees			
				R2890050/INT	4095	05/03/2021		051121	3.63
Invoice: R2890050/INT				3.63 701999	860000	INT DEV FEE-R2890050 Misc Interest Expense			
									CHECK 101260 TOTAL:
									353.97
101261	05/11/2021	PRTD	3025 WATER & SANITATION S	2187396	4024	04/28/2021		051121	25,452.57
Invoice: 2187396				25,452.57 101001	510500	PCH WATER 3/16/21-4/20/21 Purch Water-Ventura County			
									CHECK 101261 TOTAL:
									25,452.57
101262	05/11/2021	PRTD	8510 WORK BOOT WAREHOUSE	2-2-1004722	4088	04/26/2021		051121	166.55
Invoice: 2-2-1004722				166.55 701222	623000	SAFETY FOOTWEAR-D. KRAUSS Safety Equipment			
									CHECK 101262 TOTAL:
									166.55
101263	05/11/2021	PRTD	19502 YORKE ENGINEERING, L	25188	3890	04/16/2021	22100031	051121	2,379.75
Invoice: 25188				2,379.75 701325	552000	AIR QLTY ASSIST-CARB FILING Permits and Fees			
									CHECK 101263 TOTAL:
									2,379.75

A/P CASH DISBURSEMENTS JOURNAL

NUMBER OF CHECKS 51 *** CASH ACCOUNT TOTAL *** 445,692.45

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	51	445,692.45

*** GRAND TOTAL *** 445,692.45

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999		100100		Cash-General										
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET					
INVOICE DTL DESC														
101264	05/18/2021	PRTD	8680 ADS, LLC	22085.22-0421	4053	04/24/2021		051821	3,060.00					
Invoice: 22085.22-0421														
				765.00 130100	551500									
				2,295.00 751800	551500									
								CHECK	101264 TOTAL:	3,060.00				
101265	05/18/2021	PRTD	2397 AQUATIC BIOASSAY & C	LVS0521.0395	4163	05/05/2021		051821	7,350.00					
Invoice: LVS0521.0395														
				7,350.00 751810	571520									
								CHECK	101265 TOTAL:	7,350.00				
101266	05/18/2021	PRTD	30083 AQUATIC GARDENS LLC	10836	4169	05/10/2021		051821	120.00					
Invoice: 10836														
				120.00 701001	551500									
								CHECK	101266 TOTAL:	120.00				
101267	05/18/2021	PRTD	18160 ARC IMAGING RESOURCE	907147	4172	05/04/2021		051821	591.30					
Invoice: 907147														
				591.30 701350	620000									
								CHECK	101267 TOTAL:	591.30				
101268	05/18/2021	PRTD	16224 ASBURY ENVIRONMENTAL	I500-00709347	4170	05/04/2021		051821	160.00					
Invoice: I500-00709347														
				160.00 751810	551500									
								CHECK	101268 TOTAL:	160.00				
				I500-00710146	4171	05/05/2021		051821	160.00					
Invoice: I500-00710146														
				160.00 751820	551500									
								CHECK	101268 TOTAL:	320.00				
101269	05/18/2021	PRTD	20695 AT&T A/C -0051	0051-050521-01	4276	05/05/2021		051821	107.60					
Invoice: 0051-050521-01														
				107.60 101600	540520									
								CHECK	101269 TOTAL:	107.60				
				0051-050521-02	4277	05/05/2021		051821	51.76					
Invoice: 0051-050521-02														
				51.76 130100	540520									
								CHECK	101269 TOTAL:	51.76				
				0051-050521-03	4278	05/05/2021		051821	66.12					
Invoice: 0051-050521-03														
				66.12 130100	540520									
								CHECK	101269 TOTAL:	66.12				

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC					
Invoice: 0051-050521-04	0051-050521-04	4279	05/05/2021	051821	777.81
777.81 751810 540520	SRV	5/5/21~6/4/21@WSTWTR TRMT			
		Telephone			
Invoice: 0051-050521-05	0051-050521-05	4280	05/05/2021	051821	695.52
695.52 701002 540520	SRV	5/5/21~6/4/21@BLD#2 FIRE PNL			
		Telephone			
Invoice: 0051-050521-06	0051-050521-06	4281	05/05/2021	051821	54.41
54.41 701001 540520	SRV	5/5/21~6/4/21@BLDG MNT-MISC			
		Telephone			
Invoice: 0051-050521-07	0051-050521-07	4282	05/05/2021	051821	51.72
51.72 751820 540520	SRV	5/5/21~6/4/21@RANCH FIRE PNL			
		Telephone			
Invoice: 0051-050521-08	0051-050521-08	4283	05/05/2021	051821	51.72
51.72 101107 540520	SRV	5/5/21~6/4/21@LV-2 P/S			
		Telephone			
Invoice: 0051-050521-09	0051-050521-09	4284	05/05/2021	051821	51.72
51.72 101107 540520	SRV	5/5/21~6/4/21@LV2 PS&CAL FLW			
		Telephone			
Invoice: 0051-050521-10	0051-050521-10	4285	05/05/2021	051821	51.72
51.72 101104 540520	SRV	5/5/21~6/4/21@STUNT RD P/S			
		Telephone			
Invoice: 0051-050521-11	0051-050521-11	4286	05/05/2021	051821	51.72
51.72 101108 540520	SRV	5/5/21~6/4/21@JED SMITH P/S			
		Telephone			
Invoice: 0051-050521-12	0051-050521-12	4287	05/05/2021	051821	51.72
51.72 101117 540520	SRV	5/5/21~6/4/21@MTN GATE P/S			
		Telephone			
Invoice: 0051-050521-13	0051-050521-13	4288	05/05/2021	051821	215.87
215.87 101110 540520	SRV	5/5/21~6/4/21@CORNELL P/S			
		Telephone			
Invoice: 0051-050521-14	0051-050521-14	4289	05/05/2021	051821	51.72
51.72 101121 540520	SRV	5/5/21~6/4/21@RANCHVIEW P/S			
		Telephone			
Invoice: 0051-050521-15	0051-050521-15	4290	05/05/2021	051821	25.86
25.86 101123 540520	SRV	5/5/21~6/4/21@LOWR OAKS P/S			
		Telephone			
Invoice: 0051-050521-16	0051-050521-16	4291	05/05/2021	051821	25.86
25.86 101124 540520	SRV	5/5/21~6/4/21@UPPR OAKS P/S			
		Telephone			

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
								CHECK 101269 TOTAL:	2,382.85
101270	05/18/2021	PRTD	16253 AT&T MOBILITY	992789332X05112021	4264	05/03/2021		051821	6,393.98
			Invoice: 992789332X05112021			SRV 4/4/21-5/3/21			
				43.23	101300	540520		Telephone	
				143.69	701122	540520		Telephone	
				170.79	701221	540520		Telephone	
				360.36	701222	540520		Telephone	
				47.99	701223	540520		Telephone	
				86.46	701230	540520		Telephone	
				33.04	701320	540520		Telephone	
				37.88	701321	540520		Telephone	
				234.47	701322	540520		Telephone	
				2,940.50	701224	540520		Telephone	
				34.88	701325	540520		Telephone	
				91.13	701326	540520		Telephone	
				43.23	701330	540520		Telephone	
				673.14	701331	540520		Telephone	
				33.04	701340	540520		Telephone	
				67.55	701350	540520		Telephone	
				43.23	701410	540520		Telephone	
				1,108.33	701420	540520		Telephone	
				43.23	751750	540520		Telephone	
				77.75	751810	540520		Telephone	
				80.06	751820	540520		Telephone	
								CHECK 101270 TOTAL:	6,393.98
101271	05/18/2021	PRTD	21610 AVISTA TECHNOLOGIES, 93975		4139	04/02/2021	22100095	051821	1,365.74
			Invoice: 93975						
				1,365.74	751750	541000		CHEMICAL- REV OSMOSIS-PWP Supplies	
								CHECK 101271 TOTAL:	1,365.74
101272	05/18/2021	PRTD	18071 BLUE DIAMOND MATERIA	2176283		04/24/2021		051821	164.30
			Invoice: 2176283						
				164.30	101700	551000		2.96 TONS A/C 3/8 FINE Supplies/Material	
								CHECK 101272 TOTAL:	164.30
101273	05/18/2021	PRTD	30091 BRANDT CONSTRUCTION	13567		04/28/2021		051821	1,700.00
			Invoice: 13567						
				1,700.00	101200	541500		PIPING MODF AT SADDLE PEAK TK Outside Services	
								CHECK 101273 TOTAL:	1,700.00

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General						
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
INVOICE DTL DESC										
101274	05/18/2021	PRTD	21426 BRIGHTVIEW LANDSCAPE	7302674	4153	04/30/2021		051821	14,195.42	
			Invoice: 7302674							
				3,149.67	701001	551500	LANDSCAPE SRV-APR'21			
				3,692.00	751810	551800	Outside Services			
				1,781.08	751820	551800	Building Maintenance			
				4,023.00	101600	551800	Building Maintenance			
				459.67	101200	551500	Outside Services			
				1,090.00	130100	551500	Outside Services			
								CHECK	101274 TOTAL:	14,195.42
101275	05/18/2021	PRTD	30096 BUSINESS ORIENTED SO	BDKSUB21043907	4055	04/29/2021	22100113	051821	6,840.00	
			Invoice: BDKSUB21043907							
				6,840.00	701420	621500	BOSSDESK HELPDESK 5/1/21-4/30/22			
				Equip Maintenance						
								CHECK	101275 TOTAL:	6,840.00
101276	05/18/2021	PRTD	5224 C.E.R.T., INC.	20210012	4176	04/28/2021		051821	1,995.00	
			Invoice: 20210012							
				1,995.00	701430	680000	FIRE EXTINGUISHER TRN 4/28/21			
				Safety						
								CHECK	101276 TOTAL:	1,995.00
101277	05/18/2021	PRTD	30008 CAL SIERRA CONSTRUCT	10665/PMT#5	4226	03/25/2021		051821	13,300.00	
			Invoice: 10665/PMT#5							
				13,300.00						
				E CIP10665	.NON-LABOR					
				754440	900000	Capital Asset Expenses				
								CHECK	101277 TOTAL:	13,300.00
101278	05/18/2021	PRTD	2964 CALIFORNIA DEPT OF T	97-817885/043021	4218	04/30/2021		051821	3,463.00	
			Invoice: 97-817885/043021							
				3,363.22	751	206000	USETAXES - APRIL 2021			
				99.75	701	206000	Use Tax Liability			
				.03	701999	862500	Use Tax Liability			
				Other Non-Operating Expense						
								CHECK	101278 TOTAL:	3,463.00
101279	05/18/2021	PRTD	18739 CALIFORNIA HAZARDOUS	67420	4147	05/03/2021		051821	105.00	
			Invoice: 67420							
				105.00	701325	551500	MAR'21 SITE VISIT			
				Outside Services						
				67421		4148	05/03/2021		051821	
			Invoice: 67421							
				105.00	701325	551500	APR'21 SITE VISIT		105.00	
				Outside Services						

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General									
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET				
										INVOICE DTL DESC			
								CHECK	101279 TOTAL:	210.00			
101280	05/18/2021	PRTD	21655 CATALYST DIVING	04212021.01	4140	04/21/2021		051821	12,634.41				
Invoice: 04212021.01				12,634.41	751200	541500		RESERVIOR CLEANING & INSPECTION Outside Services					
								CHECK	101280 TOTAL:	12,634.41			
101281	05/18/2021	PRTD	18992 CDW GOVERNMENT	C338900	4059	04/27/2021	22100098	051821	3,988.35				
Invoice: C338900				3,988.35	701420	621500		PALO ALTO FIREWALLS-5 YRS Equip Maintenance					
								CHECK	101281 TOTAL:	3,988.35			
101282	05/18/2021	PRTD	20624 CONTRACTOR COMPLIANC	14312	4146	04/30/2021		051821	504.00				
Invoice: 14312				504.00				COMPLIANCE MONITORING					
					E CIP10556			NON-LABOR					
					201440	900000		Capital Asset Expenses					
								CHECK	101282 TOTAL:	504.00			
101283	05/18/2021	PRTD	15755 CORE & MAIN LP	0094622	4058	04/27/2021	22100082	051821	258.86				
Invoice: 0094622				236.40	701	132000		ADAPTERS & BUSHINGS Storeroom & Truck Inventory					
				22.46	701	132000		Storeroom & Truck Inventory					
								CHECK	101283 TOTAL:	258.86			
101284	05/18/2021	PRTD	2547 COUNTY SANITATION DI	48892/043021	4202	04/30/2021		051821	1,131.16				
Invoice: 48892/043021				1,131.16	751810	541500		TAPIA GRIT HAULING APR'21 Outside Services					
								CHECK	101284 TOTAL:	1,131.16			
101285	05/18/2021	PRTD	19033 DENOVO VENTURES, LLC	72474	4154	05/01/2021		051821	4,938.00				
Invoice: 72474				4,938.00	701420	621500		JUN'21 DISTRICT RECOVERY Equip Maintenance					
								CHECK	101285 TOTAL:	4,938.00			
101286	05/18/2021	PRTD	30105 JAMES DEVITT	R2654050	4185	04/08/2021		051821	13,763.00				
Invoice: R2654050				13,763.00	701	232012		REFUND CPCTY FEE-R2654050 Rfdblc Capacity Fees					

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General						
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
INVOICE DTL DESC										
Invoice: R2654050/INT				R2654050/INT	4186	04/08/2021		051821	461.24	
				461.24 701999	860000	INT CPCTY FEE-R2654050 Misc Interest Expense				
								CHECK	101286 TOTAL:	14,224.24
101287	05/18/2021	PRTD	15256 ENVIRONMENTAL OUTSOU	13393	4177	04/27/2021		051821	870.00	
Invoice: 13393				870.00 701430	680000	LIFT OPERATR TRNG@4/27/21 Safety				
Invoice: 13384				13384	4178	04/21/2021		051821	1,295.00	
				1,295.00 701430	680000	LIFT OPERATR TRNG 4/21/21 Safety				
								CHECK	101287 TOTAL:	2,165.00
101288	05/18/2021	PRTD	18743 EUROFINS EATON ANALY	L0550217	4101	01/14/2021		051821	595.00	
Invoice: L0550217				595.00 751750	571520	PWP LAB SAMPLES-12/15/20 Other Laboratory Serv				
Invoice: L0550562				L0550562	4102	01/18/2021		051821	560.00	
				560.00 751750	571520	PWP LAB SAMPLES-12/22/20 Other Laboratory Serv				
Invoice: L0550564				L0550564	4103	01/18/2021		051821	560.00	
				560.00 751750	571520	PWP LAB SAMPLES-12/29/20 Other Laboratory Serv				
Invoice: L0551125				L0551125	4104	01/20/2021		051821	595.00	
				595.00 751750	571520	PWP LAB SAMPLES-12/29/20 Other Laboratory Serv				
Invoice: L0555542				L0555542	4105	02/18/2021		051821	4,940.00	
				4,940.00 751750	571520	PWP LAB SAMPLES-2/2 & 2/3 Other Laboratory Serv				
Invoice: L0556859				L0556859	4106	02/27/2021		051821	5,750.00	
				5,750.00 751750	571520	PWP LAB SAMPLES-2/5 Other Laboratory Serv				
Invoice: L0556983				L0556983	4107	03/31/2021		051821	560.00	
				560.00 751750	571520	PWP LAB SAMPLES-2/16 Other Laboratory Serv				
Invoice: L0558163				L0558163	4108	03/09/2021		051821	560.00	
				560.00 751750	571520	PWP LAB SAMPLES-2/23 Other Laboratory Serv				
Invoice: L0558349				L0558349	4109	03/09/2021		051821	595.00	

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CASH ACCOUNT: 999		100100		Cash-General						
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
				INVOICE DTL DESC						
Invoice: L0558349				595.00	751750	571520	PWP	LAB SAMPLES-2/23 Other Laboratory Serv		
Invoice: L0558560				L0558560		4110	03/10/2021	051821	1,910.00	
				1,910.00	751750	571520	PWP	LAB SAMPLES-2/16 Other Laboratory Serv		
Invoice: L0559638				L0559638		4111	03/17/2021	051821	560.00	
				560.00	751750	571520	PWP	LAB SAMPLES-3/2 Other Laboratory Serv		
Invoice: L0560084				L0560084		4112	03/19/2021	051821	1,910.00	
				1,910.00	751750	571520	PWP	LAB SAMPLES-2/23 Other Laboratory Serv		
Invoice: L0565536				L0565536		4113	04/22/2021	051821	600.00	
				600.00	751750	571520	RETURN	LAB TESTING KITS Other Laboratory Serv		
								CHECK	101288 TOTAL:	19,695.00
101289	05/18/2021	PRTD	21573 EVERBRIDGE, INC	M61714		4100	03/31/2021	051821	13,021.16	
Invoice: M61714				13,021.16	701230	660400	MASS NOTIFICATION 5/26/21-5/25/22 Public Education Programs			
								CHECK	101289 TOTAL:	13,021.16
101290	05/18/2021	PRTD	18815 FASTENAL COMPANY	CAGOV3898		4182	04/30/2021	051821	307.38	
Invoice: CAGOV3898				307.38	751820	551000	RANCHO MAIN SUPPLIES Supplies/Material			
Invoice: CAGOV3848				CAGOV3848		4183	04/30/2021	051821	659.22	
				659.22	751810	551000	TAPIA MAIN SUPPLIES Supplies/Material			
								CHECK	101290 TOTAL:	966.60
101291	05/18/2021	PRTD	2658 FEDERAL EXPRESS CORP	7-364-04971		4216	05/07/2021	051821	27.55	
Invoice: 7-364-04971				27.55	701410	620000	PCKG DELIVERED 5/5/21 Forms, Supplies And Postage			
								CHECK	101291 TOTAL:	27.55
101292	05/18/2021	PRTD	2660 FISHER SCIENTIFIC	1487160		4174	04/23/2021	051821	75.12	
Invoice: 1487160				75.12	701341	551000	CULTURE TUBES Supplies/Material			

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CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
								CHECK 101292 TOTAL:	75.12
101293	05/18/2021	PRTD	30103 ANDREW GGEM	R0206050	4236	05/10/2021		051821	520.72
			Invoice: R0206050	520.72 701	232013	REFUND DEV FEE-R0206050 Rfdble Developer Fees			
			Invoice: R0206050/INT	R0206050/INT	4237	05/10/2021		051821	10.82
				10.82 701999	860000	INT DEV FEE-R0206050 Misc Interest Expense			
								CHECK 101293 TOTAL:	531.54
101294	05/18/2021	PRTD	19548 GRM INFORMATION MANA	0427701	4142	04/30/2021		051821	163.12
			Invoice: 0427701	163.12 701121	623500	APR'21 RECORDS STORAGE Records Management			
			Invoice: 0427702	0427702	4143	04/30/2021		051821	310.92
				310.92 701121	623500	APR'21 RECORDS STORAGE Records Management			
								CHECK 101294 TOTAL:	474.04
101295	05/18/2021	PRTD	2705 HACH COMPANY	12423834	4044	04/23/2021		051821	734.12
			Invoice: 12423834	734.12 701341	551000	DPD REAGENTS Supplies/Material			
								CHECK 101295 TOTAL:	734.12
101296	05/18/2021	PRTD	4409 HARRIS & ASSOCIATES,	48236	4060	04/23/2021		051821	3,025.00
			Invoice: 48236	3,025.00 301001	713100	STANDBY CHARGES 2/28-4/3 Standby Chg-Outside Svc			
								CHECK 101296 TOTAL:	3,025.00
101297	05/18/2021	PRTD	20823 INVOICE CLOUD INC.	964-2021_4	4151	04/30/2021		051821	5,012.50
			Invoice: 964-2021_4	5,012.50 701221	622000	INVOICE CLOUD FEES-APR'21 Outside Services			
								CHECK 101297 TOTAL:	5,012.50
101298	05/18/2021	PRTD	21197 JACOBS ENGINEERING G	W9Y31200-004	4061	04/26/2021		051821	301,829.18
			Invoice: W9Y31200-004	301,829.18		P/E 4/2-PWP ADVISOR/MGR SRV			
					E CIP10635 .NON-LABOR .				
					754440 900000	Capital Asset Expenses			

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC					
				CHECK 101298 TOTAL:	301,829.18
101299 05/18/2021 PRTD 30097 LIFE TECHNOLOGIES CO 79371383	4201	04/27/2021		051821	785.12
Invoice: 79371383	785.12 701341 551000	CONDUCTIVITY PROBE Supplies/Material			
				CHECK 101299 TOTAL:	785.12
101300 05/18/2021 PRTD 2590 LOS ANGELES DAILY NE 0011453487	4179	04/04/2021		051821	175.00
Invoice: 0011453487	175.00 751840 660400	AD-EARTH DAY 4/4/21 Public Education Programs			
Invoice: 0011454806	0011454806 4180	04/11/2021 AD-EARTH DAY 4/11/21 Public Education Programs		051821	175.00
	175.00 751840 660400				
Invoice: 0011455981	0011455981 4181	04/18/2021 AD-EARTH DAY 4/18/21 Public Education Programs		051821	175.00
	175.00 751840 660400				
				CHECK 101300 TOTAL:	525.00
101301 05/18/2021 PRTD 21663 MARTINEZ LANDSCAPE C 10688/RLS RTN	4224	04/23/2021		051821	3,500.88
Invoice: 10688/RLS RTN	3,500.88 754 201000	RETAINAGE-SOLAR FLD LNDSCP PRJ Contract Retainage			
				CHECK 101301 TOTAL:	3,500.88
101302 05/18/2021 PRTD 14322 MILES CHEMICAL COMPA 623844	4043	04/27/2021		051821	217.94
Invoice: 623844	217.94 751750 541000	53 GAL HYPOCHLORITE Supplies			
Invoice: 624473	624473 4162	05/03/2021 8.64 TONS FERRIC CHLORIDE Ferrous Chloride		051821	5,865.70
	5,865.70 751810 541050				
				CHECK 101302 TOTAL:	6,083.64
101303 05/18/2021 PRTD 2839 MOTION INDUSTRIES, I CA22-705975	4069	04/23/2021		051821	2,737.50
Invoice: CA22-705975	2,737.50 751810 551000	MOTOR BASE Supplies/Material			
				CHECK 101303 TOTAL:	2,737.50

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General						
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
INVOICE DTL DESC										
101304	05/18/2021	PRTD	16687 NEWBURY PARK TREE SE	13522	4158	05/04/2021		051821	3,495.00	
	Invoice: 13522			3,495.00	701223	551500	TREE TRIMMING-WLK RES Outside Services			
	Invoice: 13523			13523	701223	551500	TREE TRIMMING-EQS TANK Outside Services	051821	5,060.00	
				5,060.00				CHECK	101304 TOTAL:	8,555.00
101305	05/18/2021	PRTD	5738 OAKS CHRISTIAN SCHOO	C3125550	4238	05/03/2021		051821	684.35	
	Invoice: C3125550			684.35	701	232013	REFUND DEV FEE-C3125550 Rfdble Developer Fees			
	Invoice: C3125550/INT			12.46	701999	860000	INT DEV FEE-C3125550 Misc Interest Expense	051821	12.46	
				12.46				CHECK	101305 TOTAL:	696.81
101306	05/18/2021	PRTD	18946 PACIFIC ADVANCED CIV	4874	4145	04/30/2021		051821	895.00	
	Invoice: 4874			895.00			P/E 4/30-CHLOR TANK REPLCMNT			
					E CIP10696	754440	NON-LABOR Capital Asset Expenses			
					900000			CHECK	101306 TOTAL:	895.00
101307	05/18/2021	PRTD	3110 GLEN PETERSON	29	4141	05/05/2021		051821	2,200.00	
	Invoice: 29			2,200.00	701112	651600	MWD REP FEES-APR'21 Other Professional Serv			
								CHECK	101307 TOTAL:	2,200.00
101308	05/18/2021	PRTD	19140 POTABLE DIVERS INC.	21490	4074	04/28/2021		051821	18,500.00	
	Invoice: 21490			18,500.00	101200	541500	POTABLE TANK CLEANING Outside Services			
								CHECK	101308 TOTAL:	18,500.00
101309	05/18/2021	PRTD	18983 POWERFLO PRODUCTS, I	56894	4051	03/16/2021	22100070	051821	3,531.42	
	Invoice: 56894			3,531.42	101100	551000	MECHANICAL SEALS Supplies/Material			
	Invoice: 56852			56852		4075	PARTS-L/S PUMP	051821	17,951.44	

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999		100100		Cash-General											
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET						
				INVOICE DTL DESC											
Invoice: 172058796				172058796	4134	04/16/2021		051821	312.93						
				63.28 701002	551000	4/21 UNIFORMS/MATS/TOWELS									
				249.65 701999	731600	Supplies/Material									
						Uniforms									
								CHECK	101310 TOTAL:			2,673.55			
101311	05/18/2021	PRTD	18632 ROHLFING, ERIC N.	21-226-FS-01	4062	04/23/2021		051821	6,000.00						
Invoice: 21-226-FS-01				6,000.00 701320	622000	BLDG 1 IMPROVEMENT STUDY									
						Outside Services									
								CHECK	101311 TOTAL:			6,000.00			
101312	05/18/2021	PRTD	20124 RON'S PORTABLE WELDI	6769	4184	05/07/2021		051821	220.00						
Invoice: 6769				220.00 101	117020	WELD SRV@MULHLND/STUNT RD									
						MlhndHwy/Stuntrd-Dmg F/H									
								CHECK	101312 TOTAL:			220.00			
101313	05/18/2021	PRTD	20412 SHRED-IT USA LLC	8181886154	4056	04/22/2021		051821	207.22						
Invoice: 8181886154				207.22 701121	623500	MAR'21 DOC SHREDDING SRV									
						Records Management									
								CHECK	101313 TOTAL:			207.22			
101314	05/18/2021	PRTD	2948 SMITH PIPE & SUPPLY	3737105	4263	04/21/2021		051821	1,855.48						
Invoice: 3737105				1,855.48 101100	541000	ROUNDUP PRO MAX 30 GAL DRUM									
						Supplies/Material									
								CHECK	101314 TOTAL:			1,855.48			
101315	05/18/2021	PRTD	2958 SOUTHERN CALIFORNIA	9400/050121	4164	05/01/2021		051821	16.21						
Invoice: 9400/050121				16.21 101600	540530	WLK P/S									
						Gas									
Invoice: 0400/050721				964.91 101110	540530	CORNELL		051821	964.91						
						Gas		4/6/21-5/5/21 851 THERMS							
Invoice: 4200/050721				326.74 751820	540530	RANCHO		051821	326.74						
						Gas		4/6/21-5/5/21 208 THERMS							
Invoice: 4000/050721				1,241.54 751810	540530	TAPIA		051821	1,241.54						
						Gas		4/6/21-5/5/21 1,131 THERMS							

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999	100100	Cash-General									
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET		
INVOICE DTL DESC											
								CHECK 101320 TOTAL:	246.00		
101321	05/18/2021	PRTD	21626 UNIFIED FIELD SERVIC	10700/PMT#4	4228	04/25/2021		051821	56,622.45		
			Invoice: 10700/PMT#4								
				56,622.45							
					E CIP10700 .NON-LABOR .						
					301440 900000			Capital Asset Expenses			
								CHECK 101321 TOTAL:	56,622.45		
101322	05/18/2021	PRTD	2325 UNITED RENTALS, INC	192627085-001	4157	05/01/2021	22100030	051821	6,280.93		
			Invoice: 192627085-001								
				6,280.93	101100	551000		GENRTR 4/9-5/7-SDDL PEAK REHAB Supplies/Material			
								CHECK 101322 TOTAL:	6,280.93		
101323	05/18/2021	PRTD	8147 UNIVAR USA INC.	49111427	4047	04/26/2021	22100097	051821	10,446.30		
			Invoice: 49111427								
				10,446.30	751820	541000		400 BAGS SODIUM BICARBONATE Supplies/Material			
								CHECK 101323 TOTAL:	10,446.30		
101324	05/18/2021	PRTD	21643 VALLEY SOIL, INC.	26478	4150	05/05/2021		051821	3,867.50		
			Invoice: 26478								
				3,867.50	101800	670900		APR'21-METER INSTALLS Res. ET Irrigation Controller			
								CHECK 101324 TOTAL:	3,867.50		
101325	05/18/2021	PRTD	18604 VENTURA PEST CONTROL	757372	4052	03/02/2021		051821	55.00		
			Invoice: 757372								
				55.00	101600	551500		GOPHER SRV-WLK Outside Services			
				765067							
			Invoice: 765067								
				90.00	101200	551500		05/04/2021 PEST CONTROL-MAY'21 Outside Services	051821	575.00	
				45.00	101600	551500		Outside Services			
				50.00	701002	551500		Outside Services			
				37.50	751820	551500		Outside Services			
				50.00	701001	551500		Outside Services			
				87.50	751200	551500		Outside Services			
				100.00	751810	551500		Outside Services			
				40.00	751100	551500		Outside Services			
				75.00	751830	551500		Outside Services			
				765174							
			Invoice: 765174								
				55.00	101600	551500		05/04/2021 GOPHER SRV-WLK Outside Services	051821	55.00	

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999			100100		Cash-General						
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET		
INVOICE DTL DESC											
101328	05/25/2021	PRTD	30108 4517 WOODLEY TRUST	R0552150	4332	05/03/2021		052521	18.25		
Invoice: R0552150				18.25 701	232013	REFUND DEV FEE-R0552150					
				R0552150/INT	4333	05/03/2021		052521	.50		
Invoice: R0552150/INT				.50 701999	860000	INT DEV FEE-R0552150					
						Misc Interest Expense					
								CHECK	101328 TOTAL:	18.75	
101329	05/25/2021	PRTD	2317 ACORN NEWSPAPER	167722	4194	05/07/2021		052521	670.60		
Invoice: 167722				670.60 751840	660400	AD-BULK CMPST SUSP 5/6/21					
				168017	4373	05/14/2021		052521	815.00		
Invoice: 168017				815.00 751840	660400	AD-JPA MAY UPDATES 5/13/21					
						Public Education Programs					
								CHECK	101329 TOTAL:	1,485.60	
101330	05/25/2021	PRTD	5367 ADT COMMERCIAL	139849676	4292	04/30/2021		052521	2,500.00		
Invoice: 139849676				1,500.00 701001	551500	FIRE ALARM INSPECTION-HQ & OPS					
				1,000.00 701002	551500	Outside Services					
				139849677	4293	04/30/2021		052521	550.00		
Invoice: 139849677				550.00 751820	551500	FIRE ALARM INSPECTION-RLV					
				139849678	4294	04/30/2021		052521	680.00		
Invoice: 139849678				680.00 751810	551500	FIRE ALARM INSPECTIONS-TAPIA					
						Outside Services					
								CHECK	101330 TOTAL:	3,730.00	
101331	05/25/2021	PRTD	3077 AIRGAS USA, LLC	9979610774	4227	04/30/2021		052521	264.50		
Invoice: 9979610774				264.50 701002	551500	APR'21 CYLINDER RENT					
						Outside Services					
								CHECK	101331 TOTAL:	264.50	
101332	05/25/2021	PRTD	19993 ALEXANDER'S CONTRACT	103383	4222	04/30/2021		052521	19,417.86		
Invoice: 103383				19,417.86 701224	541500	METER READS 4/5-4/30					
						Outside Services					
								CHECK	101332 TOTAL:	19,417.86	

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
101333 05/25/2021 PRD 2869 AT&T Invoice: 2045/050721	2045/050721	4341	05/07/2021	052521	202.66
	202.66 101100 540520	SVCS 5/7/21-6/6/21 Telephone			
Invoice: 0123/050721	0123/050721	4343	05/07/2021	052521	67.70
	67.70 101300 540520	SVCS 5/7/21-6/6/21 Telephone			
Invoice: 0124/050721	0124/050721	4345	05/07/2021	052521	33.34
	33.34 101207 540520	SVCS 5/7/21-6/6/21 Telephone			
Invoice: 2043/050721	2043/050721	4346	05/07/2021	052521	409.41
	409.41 101100 540520	SVCS 5/7/21-6/6/21 Telephone			
Invoice: 4639/051421	4639/051421	4401	05/14/2021	052521	51.72
	51.72 701001 540520	SRV 5/14/21-6/13/21 Telephone			
		CHECK	101333 TOTAL:		764.83
101334 05/25/2021 PRD 9631 AT&T LONG DISTANCE Invoice: 806368136/050421	806368136/050421	4323	05/04/2021	052521	15.79
	3.51 701002 540520	LONG DIST 4/1-5/1/21 Telephone			
	.68 701420 540520	Telephone			
	11.47 751810 540520	Telephone			
	.13 101600 540520	Telephone			
		CHECK	101334 TOTAL:		15.79
101335 05/25/2021 PRD 30008 CAL SIERRA CONSTRUCT Invoice: 10665/PMT#6	10665/PMT#6	4400	04/25/2021	052521	72,561.00
	72,561.00	PMT#6-CORDILLER TNK REHAB P/E 4/25			
	E CIP10665 .NON-LABOR .				
	754440 900000	Capital Asset Expenses			
		CHECK	101335 TOTAL:		72,561.00
101336 05/25/2021 PRD 2513 CAPCO ANALYTICAL SER Invoice: 210598	210598	4206	05/04/2021	052521	365.00
	365.00 751820 571520	APR'21 SAMPLING Other Laboratory Serv			
		CHECK	101336 TOTAL:		365.00

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General												
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET							
										INVOICE DTL DESC						
										CHECK	101342	TOTAL:	429.56			
101343	05/25/2021	PRTD	2701 GRAINGER	9866154876	4245	04/12/2021		052521	128.43							
		Invoice: 9866154876		128.43	751820	551000	1/4 HP MOTOR									
				9867241797	4246	04/13/2021		052521	472.00							
		Invoice: 9867241797		472.00	101900	572500	RESPIRATOR SPECTABLE KITS									
				9877683111	4247	04/22/2021	22100102	052521	11,348.56							
		Invoice: 9877683111		3,782.85	701321	623000	SCBA RESPIRATORS									
				3,782.85	701326	623000	Safety Equip									
				3,782.86	701331	623000	Safety Equip									
		Invoice: 9883017106		9883017106	4248	04/27/2021		052521	431.46							
				431.46	701321	572500	BATTERY & CHRGR, SCREWDRIVER BITS									
										CHECK	101343	TOTAL:	12,380.45			
101344	05/25/2021	PRTD	2705 HACH COMPANY	12440743	4207	05/05/2021		052521	245.22							
		Invoice: 12440743		245.22	701341	551000	CHEMICALS									
				12442813	4208	05/06/2021		052521	828.74							
		Invoice: 12442813		828.74	701341	551000	FILTER ASSEMBLIES & LAMP									
				12435373	4234	04/30/2021		052521	2,014.72							
		Invoice: 12435373		2,014.72	701341	551000	COD DIGESTION VIALS									
										CHECK	101344	TOTAL:	3,088.68			
101345	05/25/2021	PRTD	10102 INFOSEND INC.	190988	4223	04/30/2021		052521	8,023.19							
		Invoice: 190988		8,023.19	701221	622000	P/E 4/30 BILL PMT MAILING									
										CHECK	101345	TOTAL:	8,023.19			
101346	05/25/2021	PRTD	16775 JR'S ENVIRONMENTAL S 1138		4305	04/15/2021		052521	2,069.62							
		Invoice: 1138		2,069.62	751810	551500	SAMPLERS REPAIR WORK									
				1139		4306	04/16/2021	052521	1,625.00							
		Invoice: 1139		SAMPLERS PREVENTATIVE MAINTENANCE												

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General									
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET				
				INVOICE DTL DESC									
				1,625.00	751810	551500				Outside Services			
Invoice: 1140				1140		4307	04/16/2021	052521	1,149.75				
				1,149.75	751810	551500	SAMPLERS PARTS Outside Services						
Invoice: 1141				1141		4338	05/07/2021	052521	1,058.25				
				1,058.25	751810	551500	HQ SAMPLER P.M. Outside Services						
								CHECK	101346 TOTAL:	5,902.62			
101347	05/25/2021	PRTD	3352 LAS VIRGENES MUNICIP	9793/050521	4187	05/05/2021		052521	101.11				
			Invoice: 9793/050521				RLV SOLAR 3/31/21-4/30/21						
				101.11									
					E CIP10688	.NON-LABOR				Capital Asset Expenses			
					754440	900000							
Invoice: 0896/050521				0896/050521		4188	05/05/2021	052521	342.84				
				342.84	101201	540540	EQS TANK 3/24/21-4/29/21 Water						
Invoice: 0907/050521				0907/050521		4189	05/05/2021	052521	516.92				
				516.92	101600	540540	WLK FLT 3/25/21-4/29/21 Water						
Invoice: 0909/050521				0909/050521		4190	05/05/2021	052521	326.93				
				326.93	101600	540540	WLK FLT 3/25/21-4/29/21 Water						
Invoice: 2652/050521				2652/050521		4257	05/05/2021	052521	271.48				
				271.48	701001	540540	BD#8/RW 3/24/21-4/28/21 Water						
Invoice: 0331/050521				0331/050521		4258	05/05/2021	052521	28.79				
				28.79	751125	540540	MORRSN 3/25/21-4/29/21 Water						
Invoice: 2646/050521				2646/050521		4259	05/05/2021	052521	216.55				
				216.55	701001	540540	BD#8/RECL 3/24/21-4/28/21 Water						
Invoice: 2655/050521				2655/050521		4260	05/05/2021	052521	230.27				
				230.27	701002	540540	BD#7/RW 3/24/21-4/28/21 Water						
Invoice: 0558/050521				0558/050521		4261	05/05/2021	052521	28.79				
				28.79	751223	540540	IND HILLS 3/25/21-4/29/21 Water						
				2645/050521		4262	05/05/2021	052521	210.40				

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General						
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
Invoice: 2645/050521				210.40	701001	540540			INVOICE DTL DESC	
									RWPS 3/24/21-4/28/21	
									water	
								CHECK	101347 TOTAL:	2,274.08
101348	05/25/2021	PRTD	2814 MCMASTER-CARR SUPPLY	57581994	4191	04/30/2021		052521		52.49
Invoice: 57581994				52.49	751820	551000			FLOW SIGHT TUBE	
									Supplies/Material	
Invoice: 57560020				57560020		4192	04/30/2021	052521		-28.36
				-28.36	751810	551000			RTN RUBBER SEAL INV#56942769	
									Supplies/Material	
Invoice: 57515710				57515710		4265	04/29/2021	052521		119.39
				119.39	751830	551000			SIGHT FLOW INDICATOR	
									Supplies/Material	
Invoice: 57482987				57482987		4266	04/29/2021	052521		-20.55
				-20.55	751810	551000			RTN TOTE BOX INV# 52794662	
									Supplies/Material	
Invoice: 57806563				57806563		4337	05/05/2021	052521		221.71
				221.71	751820	551000			POLY PLASTIC TUBING	
									Supplies/Material	
								CHECK	101348 TOTAL:	344.68
101349	05/25/2021	PRTD	19155 MCR TECHNOLOGIES, IN	39800	4244	04/01/2021	22100083	052521		4,909.30
Invoice: 39800				4,909.30	751810	551000			FLOW TUBES-FORCE MAIN 2	
									Supplies/Material	
								CHECK	101349 TOTAL:	4,909.30
101350	05/25/2021	PRTD	21407 MESA WATER DISTRICT	SALES2230	4336	05/11/2021		052521		928.12
Invoice: SALES2230				928.12	701122	710500			SCAQMD FEE SHARE-MAY'21	
									Dues, Subsc & Memberships	
								CHECK	101350 TOTAL:	928.12
101351	05/25/2021	PRTD	11873 MICROBIOLOGICS, INC.	914429	4195	05/06/2021		052521		504.37
Invoice: 914429				504.37	701341	551000			STOCK CULTURES	
									Supplies/Material	
								CHECK	101351 TOTAL:	504.37

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999		100100		Cash-General							
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET		
INVOICE DTL DESC											
101352	05/25/2021	PRTD	2365 MSO TECHNOLOGIES	6952	4242	04/30/2021		052521	316.00		
	Invoice: 6952			316.00	101300	570000			SYSTEM ENGINEERING-SCADA SCADA Services		
								CHECK	101352 TOTAL:	316.00	
101353	05/25/2021	PRTD	30100 MASSOUD NASROLLAH	074609	4198	05/10/2021		052521	385.76		
	Invoice: 074609			385.76	101	230500			RFND BAL-CLOSED A/C Deposit Refd Clearing-Billing		
								CHECK	101353 TOTAL:	385.76	
101354	05/25/2021	PRTD	21363 LARRY NIVEN	3020654	4413	07/23/2019		052521	81.12		
	Invoice: 3020654			81.12	101	230500			RFND BAL-CLOSED A/C Deposit Refd Clearing-Billing		
								CHECK	101354 TOTAL:	81.12	
101355	05/25/2021	PRTD	16372 OLIN CORPORATION	2964050	4204	05/04/2021		052521	4,251.29		
	Invoice: 2964050			4,251.29	751810	541014			4,870 GAL HYPOCHLORITE Sodium Hypochlorite		
				2964898		4205		052521	3,841.00		
	Invoice: 2964898			3,841.00	751810	541014			4,400 GAL HYPOCHLORITE Sodium Hypochlorite		
				2962156		4235		052521	4,305.41		
	Invoice: 2962156			4,305.41	751810	541014			4,932 GAL HYPOCHLORITE Sodium Hypochlorite		
								CHECK	101355 TOTAL:	12,397.70	
101356	05/25/2021	PRTD	20728 OLIVAREZ MADRUGA LEM 140-APR'21	7,772.00	701121	4375	04/30/2021	052521	18,759.33		
	Invoice: 140-APR'21			10,987.33	701122	650000			LEGAL SERVICES-APR'21 Legal Services		
						687200			Outside Services		
								CHECK	101356 TOTAL:	18,759.33	
101357	05/25/2021	PRTD	17229 OMEGA ENGINEERING, I N507773	240.67	751820	4267	04/30/2021	052521	240.67		
	Invoice: N507773					551000			THERMOCOUPLES AND TRANSMITTER Supplies/Material		
								CHECK	101357 TOTAL:	240.67	

Las Virgenes Municipal Water District



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CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC									
101358	05/25/2021	PRTD	21594 RECYCLED WOOD PRODUC	FC 17530	4217	03/02/2021		052521	49.54
			Invoice: FC 17530	49.54 751820	541080	FINANACE CHARGE-FEB'21 Amendment			
			Invoice: FC 17787	FC 17787	4219	03/31/2021		052521	375.87
				375.87 751820	541080	FINANCE CHARGE-MAR'21 Amendment			
			Invoice: FC 18123	FC 18123	4220	05/01/2021		052521	429.53
				429.53 751820	541080	FINANCE CHARGE-APR'21 Amendment			
			Invoice: 209222	209222	4252	05/03/2021		052521	1,820.00
				1,820.00 751820	541080	130 YDS WOODCHIPS-1/4" Amendment			
			Invoice: 209318	209318	4253	05/05/2021		052521	1,820.00
				1,820.00 751820	541080	130 YDS WOODCHIPS-1/4" Amendment			
			Invoice: 209517	209517	4254	05/10/2021		052521	1,820.00
				1,820.00 751820	541080	130 YDS WOODCHIPS-1/4" Amendment			
			Invoice: 209598	209598	4328	05/12/2021		052521	1,820.00
				1,820.00 751820	541080	130 YDS WOODCHIPS-1/4" Amendment			
								CHECK 101358 TOTAL:	8,134.94
101359	05/25/2021	PRTD	4586 ROYAL INDUSTRIAL SOL	9009-1004765	4240	04/28/2021		052521	86.58
			Invoice: 9009-1004765	86.58 751820	551000	NIPPLES & CLAMPS Supplies/Material			
			Invoice: 9009-1004946	9009-1004946	4241	04/29/2021		052521	607.33
				607.33 101200	551000	CONDUIT, GASKETS, TAPE Supplies/Material			
			Invoice: 9009-1005300	9009-1005300	4251	05/05/2021		052521	374.12
				374.12 101100	551000	WIRE Supplies/Material			
								CHECK 101359 TOTAL:	1,068.03
101360	05/25/2021	PRTD	13559 SANCON TECHNOLOGIES	055987	4197	05/10/2021		052521	911.59
			Invoice: 055987	911.59 101	230500	RFND BAL-CLOSED A/C Deposit Refd Clearing-Billing			

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999		100100		Cash-General										
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET					
										INVOICE DTL DESC				
								CHECK	101360 TOTAL:	911.59				
101361	05/25/2021	PRTD	2952 SHI INTERNATIONAL CO	B13392122	4330	04/28/2021		052521	1,142.09					
		Invoice: B13392122		1,142.09	751750	570000				NAS SERVER & HRD DRIVE SCADA Services				
		Invoice: B13397400		B13397400		4331	04/29/2021	052521	1,188.00					
				1,188.00	751750	570000				CISCO SWITCH SG350X-24P SCADA Services				
		Invoice: B13415149		B13415149		4335	05/03/2021	052521	1,248.30					
				1,248.30	751750	570000				SWITCH MODULES@HQ/PUREWATER SCADA Services				
								CHECK	101361 TOTAL:	3,578.39				
101362	05/25/2021	PRTD	30101 CATHERINE SIELING	051632	4199	05/10/2021		052521	136.48					
		Invoice: 051632		136.48	101	230500				RFND BAL-CLOSED A/C Deposit Refd Clearing-Billing				
								CHECK	101362 TOTAL:	136.48				
101363	05/25/2021	PRTD	19169 SJM INDUSTRIAL RADIO	44460	4374	05/01/2021		052521	4,860.00					
		Invoice: 44460		4,860.00	701326	622500				WEBTRACKER LIC 5/1/21~4/30/22 Radio Maintenance Expense				
								CHECK	101363 TOTAL:	4,860.00				
101364	05/25/2021	PRTD	2956 SOUTH COAST AIR QUAL	3808062	4269	04/16/2021		052521	137.63					
		Invoice: 3808062		137.63	751810	542000				HOT SPOTS-#20457 TWRP FY20-21 Permits and Fees				
		Invoice: 3808195		3808195		4299	04/16/2021	052521	137.63					
				137.63	701002	552000				HOT SPOTS-#30439 OPS FY20-21 Permits and Fees				
		Invoice: 3808399		3808399		4300	04/16/2021	052521	137.63					
				137.63	101600	542000				HOT SPOTS-#54773 WLK FY20-21 Permits and Fees				
		Invoice: 3809311		3809311		4301	04/16/2021	052521	137.63					
				137.63	101600	542000				HOT SPOTS-#101493 W/L PS FY20-21 Permits and Fees				
		Invoice: 3808504		3808504		4302	04/16/2021	052521	137.63					
				137.63	130100	542000				HOT SPOTS-#66254 L/S2 FY20-21 Permits and Fees				

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999		100100		Cash-General							
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET		
				INVOICE DTL DESC							
Invoice: 3809184				3809184	4303	04/16/2021		052521	137.63		
				137.63 751820	542000	HOT SPOTS-#94009 RLV FY20-21					
						Permits and Fees					
Invoice: 3808465				3808465	4304	04/16/2021		052521	137.63		
				137.63 130100	542000	HOT SPOTS-#63250 L/S#1 FY20-21					
						Permits and Fees					
									CHECK	101364 TOTAL:	963.41
101365	05/25/2021	PRTD	2957 SOUTHERN CALIFORNIA	790504/051021	4321	05/10/2021		052521	1,853.61		
			Invoice: 790504/051021	1,853.61 751810	678800	N. CYN P/S 3/3-4/29 3,440 KWH					
						District Sprayfield					
									CHECK	101365 TOTAL:	1,853.61
101366	05/25/2021	PRTD	14479 STEPHEN'S VIDEO PROD	4-28-21	4213	04/28/2021		052521	2,000.00		
			Invoice: 4-28-21	2,000.00 701112	651600	VIDEO SRV-LV MTGS-APR'21					
						Other Professional Serv					
Invoice: 4-29-21				4-29-21	4214	04/29/2021		052521	500.00		
				500.00 751840	651600	VIDEO SRV-JPA MTG-APR'21					
						Other Professional Serv					
									CHECK	101366 TOTAL:	2,500.00
101367	05/25/2021	PRTD	30102 SHIRLEY STEPHEN-COTT	057992	4200	05/10/2021		052521	122.31		
			Invoice: 057992	122.31 101	230500	RFND BAL-CLOSED A/C					
						Deposit Refd Clearing-Billing					
									CHECK	101367 TOTAL:	122.31
101368	05/25/2021	PRTD	21182 SUSAN SWENSON	912330-026371	4371	01/08/2019		052521	250.01		
			Invoice: 912330-026371	250.01 101	230500	RFND BAL-CLOSED A/C					
						Deposit Refd Clearing-Billing					
									CHECK	101368 TOTAL:	250.01
101369	05/25/2021	PRTD	17645 TORO ENTERPRISES INC	14552 R	4243	04/29/2021		052521	16,272.50		
			Invoice: 14552 R	16,272.50 101700	551500	P/E 3/31 TWIN LAKES VALVE REPLCMNT					
						Outside Services					
									CHECK	101369 TOTAL:	16,272.50

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999		100100		Cash-General									
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET				
										INVOICE DTL DESC			
101370	05/25/2021	PRTD	21252 TYLER TECHNOLOGIES,	045-337241	4221	04/23/2021		052521	700.00				
			Invoice: 045-337241	700.00									
				E CIP10663	NON-LABOR								
				330440	900000	Capital Asset Expenses							
								CHECK	101370 TOTAL:				700.00
101371	05/25/2021	PRTD	3429 UNITED PARCEL SERVIC	000025w020191	4402	05/08/2021		052521	8.15				
			Invoice: 000025w020191	8.15 701410	620000	PLD & LATE FEES							
						Forms, Supplies And Postage							
								CHECK	101371 TOTAL:				8.15
101372	05/25/2021	PRTD	20935 US METRO GROUP, INC.	103970	4295	04/30/2021		052521	13,199.60				
			Invoice: 103970	6,308.86 701001	551500	JANITORIAL SRV-APR'21							
				2,725.27 701002	551500	Outside Services							
				1,021.78 751820	551800	Outside Services							
				1,520.56 751810	551800	Building Maintenance							
				208.54 101600	551800	Building Maintenance							
				1,414.59 751750	551800	Building Maintenance							
				103972	4296	04/30/2021		052521	5,800.96				
			Invoice: 103972	2,175.36 701001	551500	DISINFECT SRV-APR'21							
				725.12 701002	551500	Outside Services							
				725.12 751820	551800	Outside Services							
				2,175.36 751810	551800	Building Maintenance							
								CHECK	101372 TOTAL:				19,000.56
101373	05/25/2021	PRTD	2780 VALLEY NEWS GROUP	5-6	4193	05/07/2021		052521	180.00				
			Invoice: 5-6	180.00 751840	660400	AD-BULK CMPST SUSP 5/6/21							
						Public Education Programs							
				4-8	4369	04/08/2021		052521	150.00				
			Invoice: 4-8	150.00 751840	660400	AD-EARTH DAY 4/8/21							
						Public Education Programs							
				5-13	4372	05/13/2021		052521	250.00				
			Invoice: 5-13	250.00 751840	660400	AD-JPA MAY UPDATES 5/13/21							
						Public Education Programs							
								CHECK	101373 TOTAL:				580.00

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT:	999	100100	Cash-General							
CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET	
INVOICE DTL DESC										
101374	05/25/2021	PRTD	3034 VORTEX INDUSTRIES	01-1502860	4297	04/30/2021		052521	4,243.70	
	Invoice: 01-1502860			4,243.70	751820	551500	REPAIR DOOR #4-RANCHO Outside Services			
							CHECK	101374 TOTAL:	4,243.70	
101375	05/25/2021	PRTD	19685 W. LITTEN INC.	21019	4255	05/10/2021		052521	7,300.45	
	Invoice: 21019			7,300.45	751810	678800	SPRAYFIELD 5/3-5/7 District Sprayfield			
							CHECK	101375 TOTAL:	7,300.45	
101376	05/25/2021	PRTD	18914 WECK LABORATORIES, I	W1E0491-LV	4203	05/07/2021		052521	535.00	
	Invoice: W1E0491-LV			535.00	751750	571520	PWP SAMPLING-1D14037 Other Laboratory Serv			
	Invoice: W1E0102-LV			660.00	751810	571520	05/03/2021 RANCHO SLUDGE CAKE-1C17055 Other Laboratory Serv	052521	660.00	
	Invoice: W1E0104-LV			126.00	101600	571520	05/03/2021 WESTLAKE-11C23069 Other Laboratory Serv	052521	126.00	
	Invoice: W1E0602-LV			67.00	101600	571520	05/07/2021 WESTLAKE-1D28027 Other Laboratory Serv	052521	67.00	
	Invoice: W1E0106-LV			833.00	751750	571520	05/03/2021 PWP SAMPLING-1D07018 Other Laboratory Serv	052521	833.00	
	Invoice: W1D1108-LV			117.14	751810	571520	04/16/2021 TAPIA GROUNDWATER-1D06094 Other Laboratory Serv	052521	117.14	
	Invoice: W1D1822-LV			25.00	701341	551500	04/29/2021 DIONIZED WATER-1D06115 Outside Services	052521	25.00	
	Invoice: W1D1823-LV			730.00	751810	571520	04/29/2021 TAPIA EFLNT-1D06099 Other Laboratory Serv	052521	730.00	
	Invoice: W1D1824-LV			550.00	751810	571520	04/29/2021 TAPIA EFLNT-1C17052 Other Laboratory Serv	052521	550.00	
				W1D1826-LV	4233	04/29/2021		052521	413.47	

Las Virgenes Municipal Water District



A/P CASH DISBURSEMENTS JOURNAL

CASH ACCOUNT: 999 100100 Cash-General
 CHECK NO CHK DATE TYPE VENDOR NAME

INVOICE	DOCUMENT	INV DATE	PO	CHECK RUN	NET
INVOICE DTL DESC					
Invoice: w1D1826-LV	413.47 751810 571520	TAPIA EFLNT-1D07005 Other Laboratory Serv			
Invoice: w1E0490-LV	w1E0490-LV 4329	05/07/2021		052521	1,581.00
	1,581.00 751810 571520	AGOURA DRY-1C31065 Other Laboratory Serv			
Invoice: w0K1393-LV	w0K1393-LV 4396	11/19/2020		052521	534.96
	534.96 751830 571520	RLV GROUNDWATER-0K10114 Other Laboratory Serv			
Invoice: w0L0342-LV	w0L0342-LV 4397	12/07/2020		052521	159.12
	159.12 751820 571520	RLV COMPOST-0K10118 Other Laboratory Serv			
Invoice: w0L0940-LV	w0L0940-LV 4398	12/15/2020		052521	127.30
	127.30 751810 571520	TAPIA EFLNT-0L01061 Other Laboratory Serv			
				CHECK 101376 TOTAL:	6,458.99
NUMBER OF CHECKS 49				*** CASH ACCOUNT TOTAL ***	332,286.71
TOTAL PRINTED CHECKS		COUNT	AMOUNT		
		49	332,286.71		
				*** GRAND TOTAL ***	332,286.71



LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 Las Virgenes Road, Calabasas CA 91302

MINUTES
REGULAR MEETING

9:00 AM

May 4, 2021

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by John Zhao.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **9:00 a.m.** by Board President Lewitt in person and via teleconference in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road, Calabasas, CA 91302. The meeting was conducted in-person and via teleconference pursuant to the provisions of the Governor's Executive Order, N-29-20, which suspended certain requirements of the Ralph M. Brown Act to support social distancing guidelines associated with response to the coronavirus (COVID-19) outbreak. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Directors Charles Caspary, Jay Lewitt, Lynda Lo-Hill (via teleconference), Len Polan, and Lee Renger

Absent: None

Staff Present: David Pedersen, General Manager
Joe McDermott, Director of Engineering and External Affairs
Don Patterson, Director of Finance and Administration
John Zhao, Director of Facilities and Operations
Josie Guzman, Clerk of the Board
Keith Lemieux, District Counsel

2. APPROVAL OF AGENDA

Director Polan moved to approve the agenda. Motion seconded by Director Renger.

Motion carried unanimously by roll call vote.

3. PUBLIC COMMENTS

None.

4. CONSENT CALENDAR

A List of Demands: May 4, 2021: Receive and file

B Minutes Regular Meeting of April 20, 2021: Approve

B Water Supply Conditions Update: Receive and file

D Response to Coronavirus (COVID-19) Pandemic: Continuation of Emergency

Approve the continuation of an emergency declaration for response to the coronavirus (COVID-19) pandemic.

E Annual Purchase Order with Grainger Industrial Supply: Approval of Increase

Authorize the General Manager to approve an increase to the purchase order with Grainger Industrial Supply, in the amount of \$10,000, from \$45,000 to \$55,000, and three one-year renewal options in the annual amount of \$55,000.

F Designation of Agents for Coordination with California Governor's Office of Emergency Services

Approve and adopt and updated CalOES Form 130, designating and authorizing the General Manager, Director of Finance and Administration, and Director of Engineering and External Affairs to represent the District with the California Governor's Office of Emergency Services.

Director Caspary moved to approve the Consent Calendar. Motion seconded by Director Polan. Motion carried unanimously by roll call vote.

5. ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A Legislative and Regulatory Updates

Joe McDermott, Director of Engineering and External Affairs, provided an update regarding AB 1434 (Friedman), Urban Water Use Objectives, Indoor Residential Water Use, which proposes to reduce the current standard for indoor residential water use of 55 gallons per capita daily (GPCD) to 48 GPCD beginning on January 1, 2023, followed by reductions to 44 GPCD beginning on January 1, 2025, and 40 GPCD beginning on January 1, 2030. He stated that the District was concerned with outdoor water usage, and

noted that the average District customer uses 250 GPCD combined indoor and outdoor water usage. He stated that the District was focused on water conservation measures through the Smart Irrigation Controller Program, Automatic Meter Reading/Advanced Metering Infrastructure Project, and the Landscape Conversion Initiative. He also reported that a copy of a letter in support, if amended, was sent regarding SB 533 (Stern), Deenergization Events and Electrical Grid Resiliency. He stated that the letter included recommendations to amend to the bill to provide flexibility for planning, design, and environmental compliance; however, the recommendations were not included in the proposed bill. He also provided an update regarding discussions with representatives from the South Coast Air Quality Management District (AQMD) regarding tentative changes to the regulations for emergency generator runtimes and Public Safety Power Shutoff (PSPS) events. He noted that proposed rule changes for the exceedance of 200 hours for running emergency generators for PSPS events would likely occur later in the year. He also noted that the rule changes would allow emergency generators to run for three additional hours for PSPS events for warmup and/or cool down. He noted that the currently proposed changes would allow 60 hours of runtime per three-year period with a maximum in any one year of 30 hours instead of the current 20 hours per year maximum. He stated that the California Air Resources Board (CARB) was not in support of potential changes to regulations related to increasing emergency generator maintenance and testing runtime limits. He also stated that AQMD would hold another stakeholders workshop to discuss the potential changes to regulations.

A discussion ensued regarding whether PSPS events occurred in Westlake Village since most of the power lines were located underground. John Zhao, Director of Facilities and Operations, noted that Southern California Edison would shut off major transmission from the substation in the event of extreme wind conditions and wildfires, which could affect all of the District's service area.

Director Caspary asked staff to monitor grant funding opportunities to replace emergency backup generators. He reported that he attended the Association of California Water Agencies (ACWA) State Legislative Committee Meeting on April 30th, where they discussed SB 223 (Dodd), Discontinuation of Residential Water Service. He noted that the proposed bill was amended to reflect that waiver of fees for disconnection and reconnection of water service could not be made due to statutes in the California Constitution, which does not allow water systems to use rate revenues to waive fees. He also noted that ACWA was opposed to SB 223 as it did not amend the establishment of a pilot program for an arrearage management plan program. He also reported that there appeared to be a gap of \$7.5 million for the Safe and Affordable Funding Equity and Resilience (SAFER) Program Needs Assessment.

The Board discussed concerns with AB 1434 and the possibility that the District might need to revisit water rates should the bill move forward. The Board also discussed educating customers on utilizing the WaterSmart Customer Portal to monitor their real-time water usage, reaching out to Senator Stern regarding SB 533, and monitoring SB 222 (Dodd), Water Rate Assistance Program for impacts to the District.

6. TREASURER

Director Lo-Hill noted that the List of Demands included several refunds to ratepayers for developer and capacity fees of approximately \$3,000.

7. FACILITIES AND OPERATIONS

A Vehicle Replacement Program for Fiscal Year 2020-21: Purchase Order Authorization

Authorize the General Manager to issue a purchase order to Fritts Ford of Riverside, in the amount of \$48,152.63, for a Ford F-350 4x4 regular cab utility bed service truck.

Shawn Triplett, Facilities Maintenance Supervisor, presented the report.

Director Renger moved to approve Item 7A. Motion seconded by Director Polan.

A discussion ensued regarding the lack of interest from local dealerships in submitting proposals for District vehicles.

Motion carried unanimously by roll call vote.

8. ENGINEERING AND EXTERNAL AFFAIRS

A Review of Policy Granting Relief to Specified Customers to Support Rebuilding of Homes Destroyed in Woolsey Fire.

Review the policy established by Resolution No. 2557, granting relief to specified customers to support the rebuilding of homes destroyed by the Woolsey Fire, and determine whether or not to amend the eligibility criteria.

Joe McDermott, Director of Engineering and External Affairs, presented the report. He noted that the Board previously approved allowing eligible customers to receive credit for an existing 3/4-inch meter at the then-current rates for a 1-inch meter for a replacement dwelling plus five percent as measured by square footage to provide relief to customers experiencing a hardship.

Director Caspary moved to extend the credit for replacing an existing 3/4-inch meter for eligible customers to December 31, 2022, and keep the provision for replacement dwelling at no more than five percent larger in square footage.

Director Renger moved a substitute motion to eliminate the requirement for no more than five percent larger in square footage replacement dwelling in its entirety. Substitute motion seconded by Director Polan.

A discussion ensued regarding concerns with impacts to the District's water distribution system due to flow requirements for fire sprinkler systems; possible impacts to support fire-fighting efforts to homes with fire sprinkler systems with 1-inch water meters installed;

and consideration for customers who already paid to upsize to a 1-inch water meter to rebuild their homes destroyed by the Woolsey Fire.

General Manager David Pedersen noted that there could be an option for customers to have a 3/4-inch meter installed for residential water service and a separate 1-inch meter installed for the fire sprinkler service, which could potentially result in a cost savings.

A discussion ensued regarding the possibility of having to recalculate water demands in order to accommodate homes with fire sprinkler systems and accessory dwelling units, and placing funds in capital reserve for these purposes.

John Zhao, Director of Facilities and Operations, responded to concerns regarding the fire sprinkler draw capacity to the water distribution system by stating that the system was designed based on the maximum daily demand and for one single residential structure fire at 1,250 gallons per minute for two hours. He noted that the fire sprinkler system draw capacity would be between the maximum daily demand and the fire flow demand.

Director Renger withdrew his substitute motion.

Tony Rodriguez, resident of Malibou Lake, noted that installing fire sprinklers and upgrading to a 1-inch water meter were mandatory for people who rebuild their homes destroyed in the Woolsey Fire. He stated that it was his understanding that 80 percent of the people who lost their homes in the Woolsey Fire were underinsured, and 50 percent of the people were unable to rebuild their homes due to financial hardship. He also stated that his home was underinsured and construction costs had increased during the COVID-19 pandemic, which caused financial hardship to rebuild his home. He also stated that he was not provided the option to have a separate 1-inch meter installed for the fire sprinkler system, and he noted that he already paid to have a 1-inch meter installed. He asked the Board to consider a broader definition for financial hardship.

Director Renger seconded the motion to extend the credit for replacing an existing 3/4-inch meter for eligible customers to December 31, 2022, and keep the provision for replacement dwelling at no more than five percent larger in square footage.

A discussion ensued regarding extending the credit beyond 2022 and the Board's previous approval to provide a credit for replacement dwelling plus five percent by square footage.

Motion carried by the following roll call vote:

AYES: Caspary, Lewitt, Renger

NOES: Lo-Hill, Polan

ABSTAIN: None

ABSENT: None

B Digital Media Advertising for LV Tap Campaign: Award

Accept the proposal from Adtaxi and authorize the General Manager to execute an agreement, in the amount of \$30,000, for a three-month trial of digital media

advertising for the LV Tap Campaign.

Mike McNutt, Public Affairs and Communications Manager, presented the report.

Director Caspary moved to approve Item 8B. Motion seconded by Director Polan.

A discussion ensued regarding concerns with anomalies in the analytics for current website traffic caused by Amazon web service bots and HubSpot, which inflated the total number of sessions without contributing to the Google Analytics metrics. Steven Baird, Public Affairs Associate II, responded that the current analytics provided in the Monthly Report of District Activities were corrected, and Adtaxi would share their expertise to ensure the accuracy of the web analytics data.

A discussion ensued regarding conducting a survey following the three-month trial for the number of people who drink from the tap versus those purchasing bottled water; advertising brief segments promoting the LV Tap Campaign on Amazon Prime, Hulu, etc., within the District's service area; and demonstrating the safety of the District's tap water to gain trust for the Pure Water Project Las Virgenes-Triunfo.

Motion carried unanimously by roll call vote.

9. INFORMATION ITEMS

A 2021 Property and Liability Insurance Renewal

Don Patterson, Director of Finance and Administration, responded to a question regarding previous increases to property and liability insurance premiums by stating that the premiums had increased 69 percent following the Woolsey Fire and subsequently increased 10 percent.

10. NON-ACTION ITEMS

A Organization Reports

Director Caspary noted that the next ACWA State Legislative Committee Meeting would be held on May 21st.

B Director's Reports on Outside Meetings

Board President Lewitt reported that he attended the Southern California Water Coalition "Drought: Are We Ready" Program on April 29th. He commented that the State might soon declare a drought, and he suggested that the District proclaim a drought in the service area, institute polices for water conservation measures, and provide one to two months' advance notice to customers before imposing fines for wasteful water use.

C General Manager Reports

(1) General Business

General Manager David Pedersen stated that staff would meet to discuss drought messaging to the public and report back to the Board. He noted that the Board previously canceled the May 18th Regular Board meeting, and the next meeting would be held on May 25th for the Strategic Planning Workshop. He noted that designated Board Members, staff, and the District's lobbyist would meet with Congressional representatives the week of May 17th. He reported that the interior work for the Saddle Peak Tank was completed, the tank was refilled, and exterior work was on-going. He also reported that the County of Los Angeles was currently in the orange tier, and the District had moved into Phase 3 of its Return to On-Site Work Plan for COVID-19. He explained that Stage 3 allowed for resumption of in-person Board meetings, on-site outdoor water tasting and garden tours of the Pure Water Demonstration Facility, and office staff to return to the office at least 50 percent of the time. He noted that additional changes would occur once the County of Los Angeles entered the yellow tier. He noted that Steven O'Neill, District Counsel, requested that the Closed Session Item be deferred to a future Board meeting due to a conflict with his schedule.

(2) Follow-Up Items

None.

D Directors' Comments

None.

11. FUTURE AGENDA ITEMS

Director Lo-Hill moved to consider changing the amount of time allowed for Public Comment from two minutes to four minutes, and to reduce the amount of time to two minutes if there are many people wishing to make Public Comment. Motion seconded by Director Caspary.

Director Lo-Hill withdrew her motion after it was noted that the amount of time allowed for Public Comment was currently five minutes.

Director Caspary moved to consider the capacity of and impacts to the existing water distribution system with new accessory dwelling units now being permitted. Motion seconded by Director Polan.

12. PUBLIC COMMENTS

None.

13. CLOSED SESSION – (This item was deferred to a future Board meeting)

A Conference with District Counsel – Existing Litigation (Government Code Section 54956.9(a)):

San Diego County Water Authority v. Metropolitan Water District of Southern California, et al.

14. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **10:51 a.m.**

Jay Lewitt, President
Board of Directors
Las Virgenes Municipal Water District

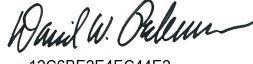
ATTEST:

Lee Renger, Secretary
Board of Directors
Las Virgenes Municipal Water District

(SEAL)

May 3, 2021

To: Payroll
 From: David W. Pedersen
 General Manager

DocuSigned by:

 12C6BE2E4EC44E2...

RE: Per Diem Request – April 2021

Attached are the Director statements of attendance for meetings, conferences and miscellaneous functions, which are summarized in the table below. If you have any questions, please contact me. Thank you.

On April 25, 2017, the Board adopted Resolution No. 2513, amending the per diem rate to \$220.

	<u>Director</u>	<u>No. of Meetings</u>	<u>Rate</u>	<u>Total</u>
8014	Charles Caspary	6	\$220.00	\$1,320.00
19447	Jay Lewitt	6	\$220.00	\$1,320.00
21169	Lynda Lo-Hill	9	\$220.00	\$1,980.00
18856	Leonard Polan	4	\$220.00	\$880.00
14702	Lee Renger	3	\$220.00	\$660.00

*LVMWD Code Section 2-2.106(a): “not exceeding a total of ten (10) days in any calendar month”

**LVMWD Code Section 2-2.106(b): MWD director “not exceeding a total of ten (10) additional days in any calendar month.”

Glen Peterson, Director

Metropolitan Water District of Southern California
2936 Triunfo Canyon Rd
Agoura, CA. 91301
email: glenpsop@icloud.com

INVOICE

17238 OJ
DATE: 05/05/21
INVOICE # 29
FOR: Director fees

Bill To:

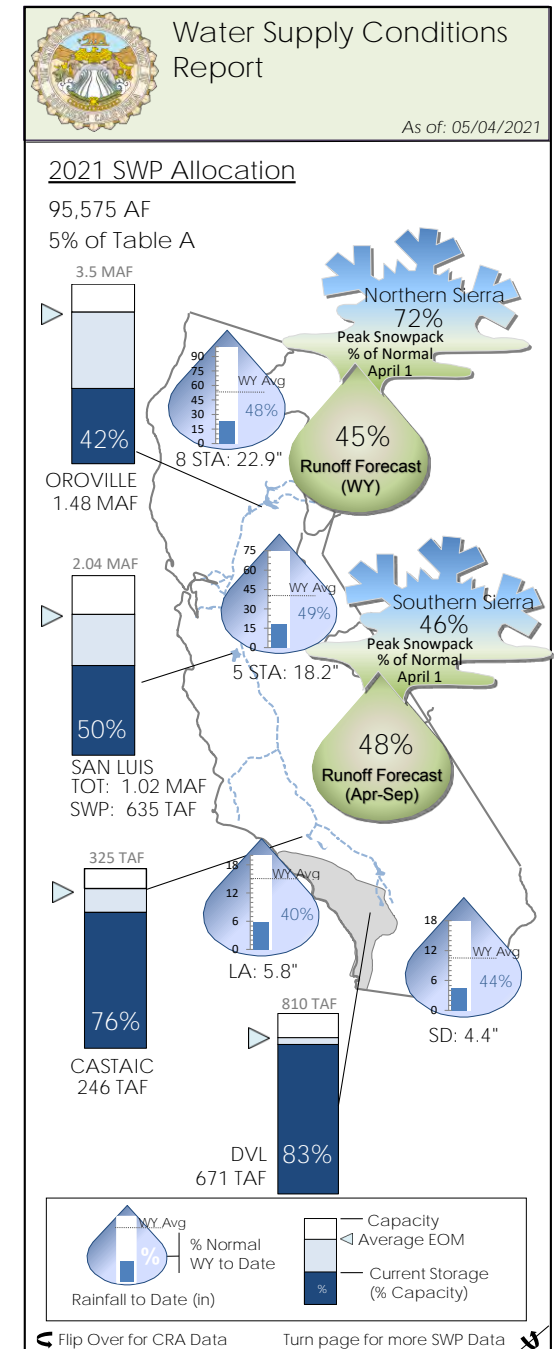
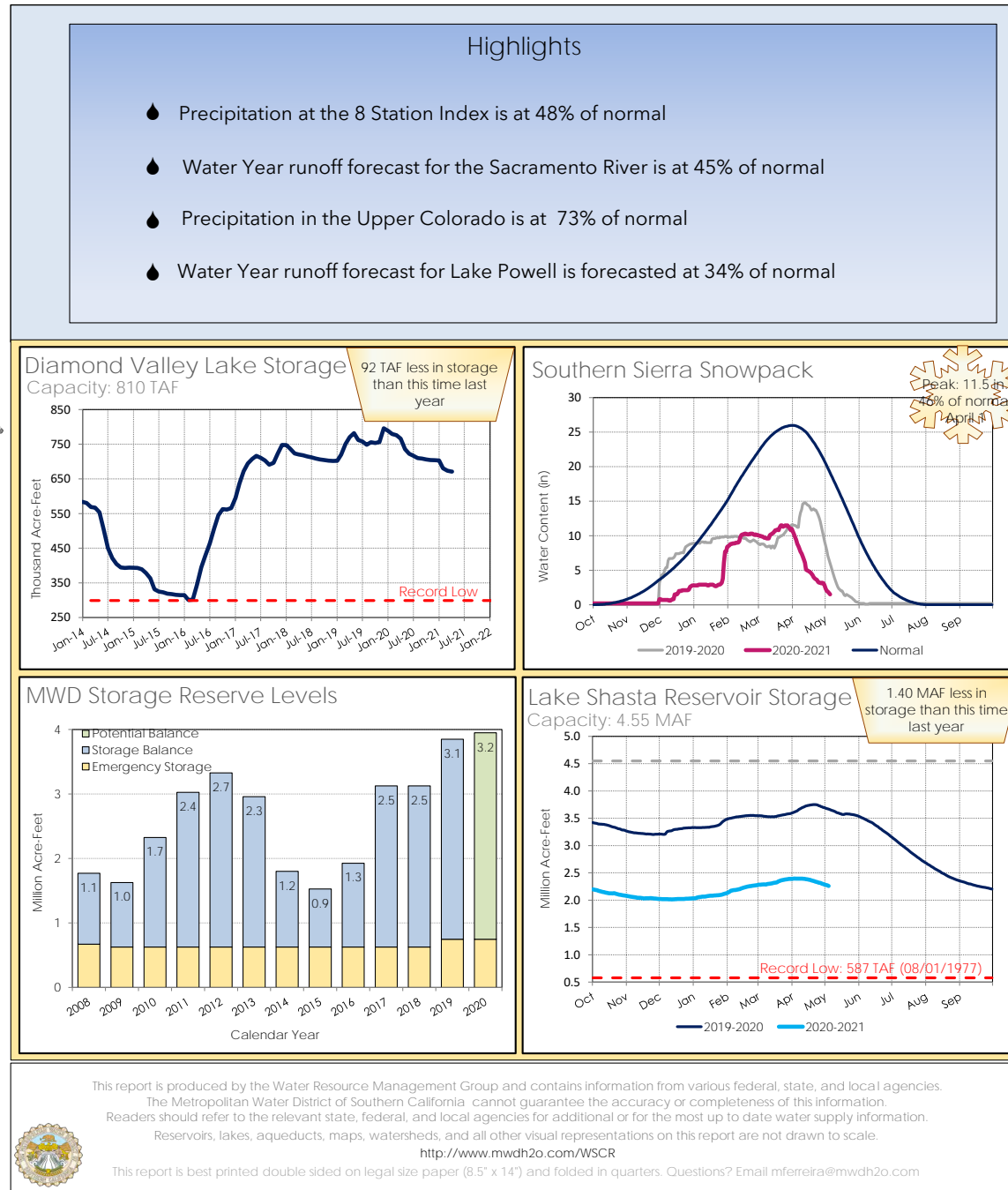
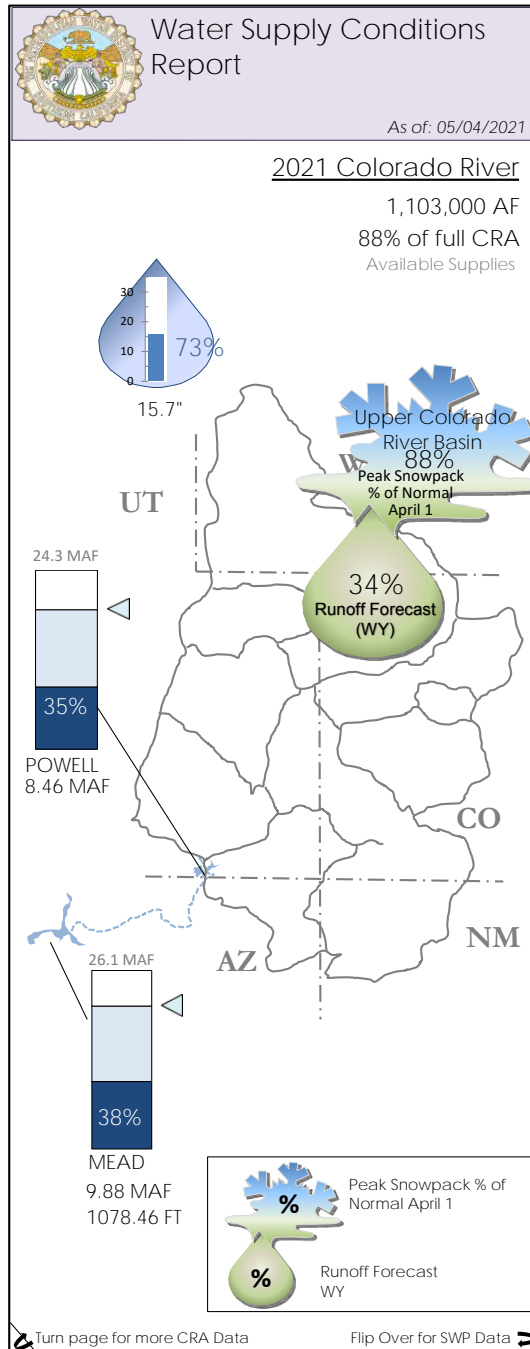
Las Virgenes Municipal Water District

4232 Las Virgenes Canyon Rd
Calabasas, CA. 91302
attn: Josie Guzman, Clerk of the Board
818-251-2100

Date	Description	fee
4/5/2021	Special Executive Committee CEO selection	\$220.00
4/6/2021	Real Property Committee pre meeting	\$220.00
4/9/2021	Northern Caucus	\$220.00
4/12/2021	MWD Committees	\$220.00
4/13/2021	MWD Board meeting and Committees	\$220.00
4/14/2021	Special Board Meeting	\$220.00
4/15/2021	Special Board Meeting	\$220.00
4/20/2021	Report to LVMWD Board	\$220.00
4/21/2021	Special Northern Caucus Meeting Directors only	\$220.00
4/27/2021	MWD Committees	\$220.00
	TOTAL	\$2,200.00

Make Check payable to Glen Peterson

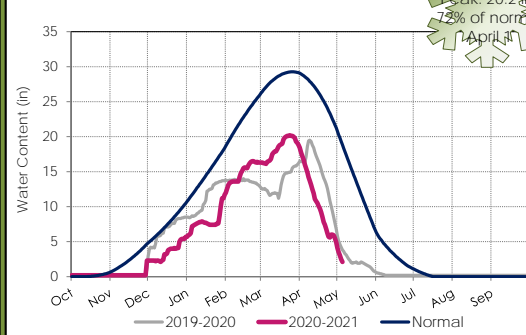
Thank you for the opportunity to serve



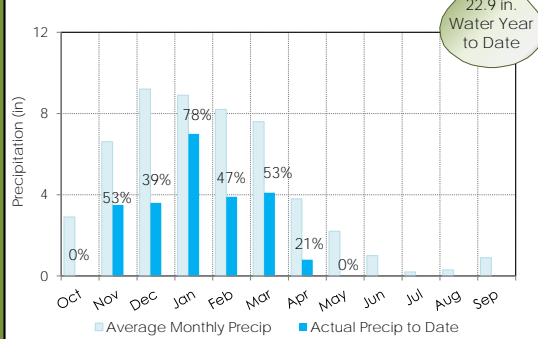
State Water Project Resources

As of: 05/04/2021

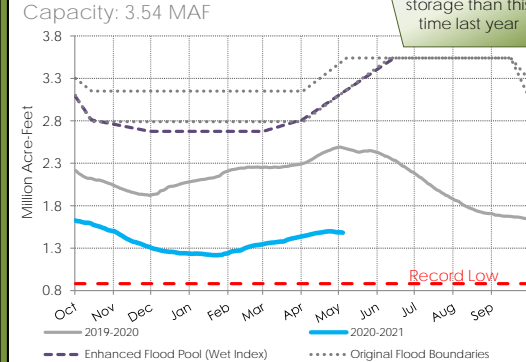
Northern Sierra Snowpack



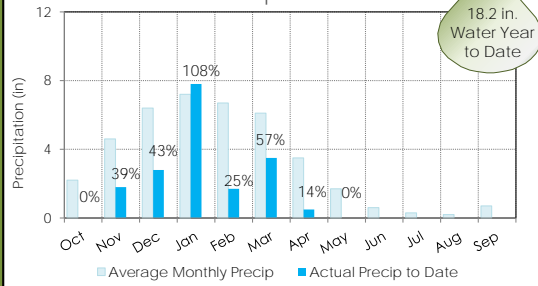
8 Station Index Precip



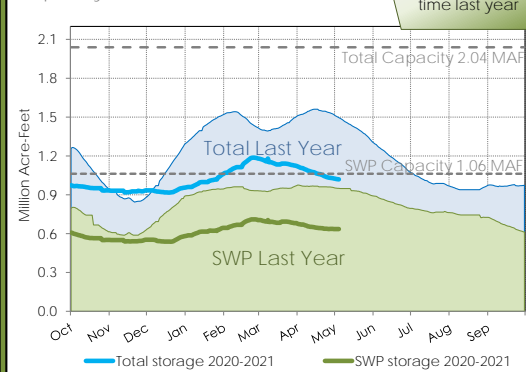
Oroville Reservoir Storage



5 Station Index Precip



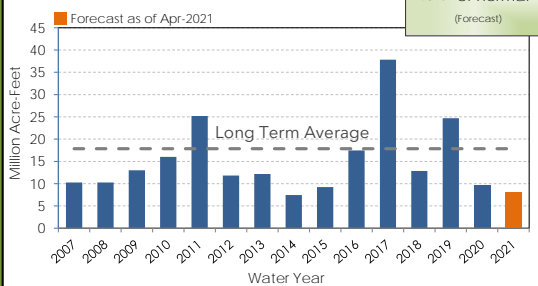
San Luis Reservoir Storage



Other SWP Contract Supplies Calendar Year 2021

Carryover 207,000 AF
Transfer Supplies 30,000 AF (Est.)

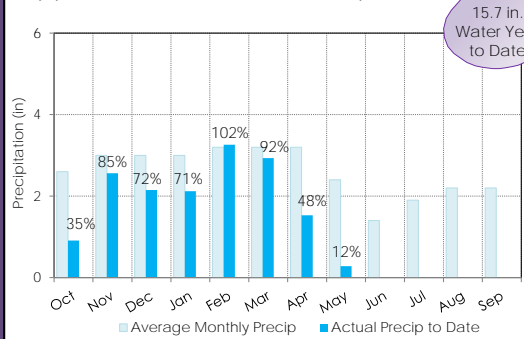
Sacramento River Runoff



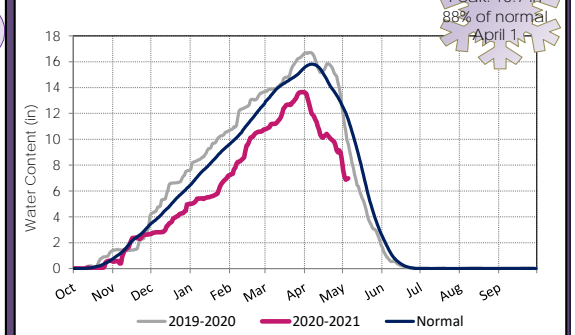
Colorado River Resources

As of: 05/04/2021

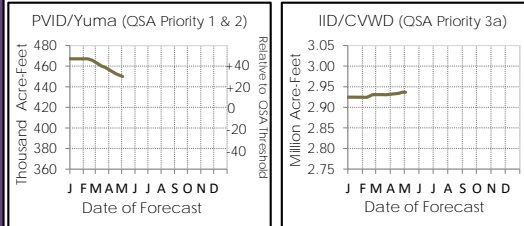
Upper Colorado Basin Precip



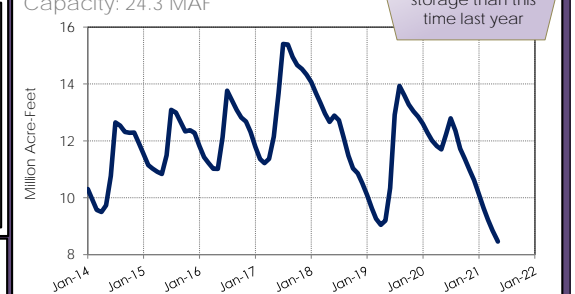
Upper Colorado Basin Snowpack



2021 Colorado River Ag Use



Lake Powell Storage



Lake Mead Shortage/Surplus Outlook

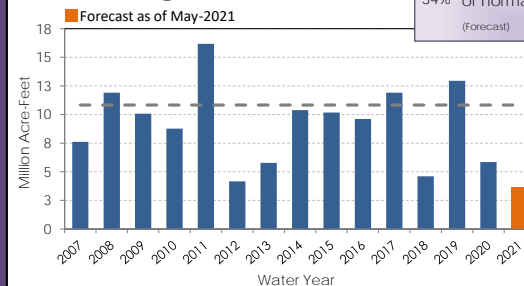
	2021	2022	2023	2024	2025
Surplus	0%	0%	0%	1%	4%
Shortage	0%	97%	94%	82%	77%
Metropolitan DCP*			2%	35%	26%

Likelihood based on results from the April 2021 MTOM/CRSS model run. Includes DCP Contributions.
* Chance of required DCP contribution by Metropolitan

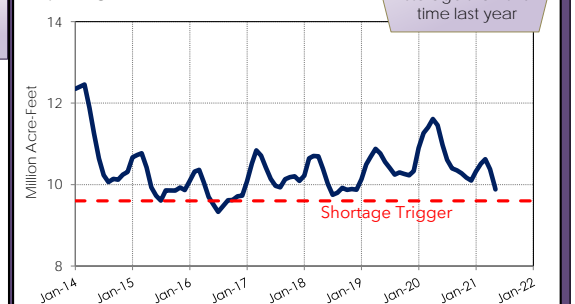
Projected Lake Mead ICS Calendar Year 2021

Put (+)/Take(-)
-57,000 AF

Powell Unregulated Inflow



Lake Mead Storage





June 1, 2021 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: General Manager

Subject : Response to Coronavirus (COVID-19) Pandemic: Continuation of Emergency

SUMMARY:

On March 24, 2020, the Board adopted Resolution No. 2572, declaring a state of emergency for the District's service area due to the coronavirus (COVID-19) pandemic and authorizing actions to support the response and recovery effort. On April 21, 2020, the Board adopted Resolution No. 2574, amending and reenacting the declaration of a local state of emergency and authorizing interest-free flexible payments plans for up to 24 months. On May 19, 2020, the Board adopted Resolution No. 2576, amending and reenacting the declaration of a local state of emergency and authorizing a waiver of service initiation fees for commercial customers who temporarily closed their accounts due to hardships associated with COVID-19. Subsequently, on June 16, 2020, the Board adopted Resolution No. 2578, amending and reenacting the declaration of a local state of emergency and authorizing a partial credit to commercial hotel customers for fixed sewer charges for the months of April and May 2020 with a maximum 50 percent reduction of the charges.

Section 2-6.402 of the Las Virgenes Municipal Water District Code requires that once the Board has declared an emergency, it must determine by a 4/5's vote at each subsequent regular Board meeting whether to continue or terminate the authorization for emergency. Staff recommends that the emergency declaration be continued.

RECOMMENDATION(S):

Approve the continuation of an emergency declaration for response to the coronavirus (COVID-19) pandemic.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

DISCUSSION:

Resolution Nos. 2572, 2574, 2576, and 2578 authorized and directed the General Manager to temporarily grant relief to District customers, as follows:

- Avoid shutting off water service for non-payment;
- Discontinue the issuance of door tags and associated fees for non-payment;
- Waive late charges for past due water and wastewater bills; and
- Authorize interest-free flexible payment plans for up to 24 months.
- Authorize waiving service initiation fees for commercial customers who temporarily closed their accounts due to hardship associated with COVID-19
- Authorize a partial credit to commercial hotel customers for fixed sewer charges for the months of April and May 2020 with a maximum 50 percent reduction of the charges.

GOALS:

Provide Safe and Quality Water with Reliable Services

Prepared by: David W. Pedersen, General Manager



June 1, 2021 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Cloud Archive and Remote Disaster Recovery for JD Edwards

SUMMARY:

Since February 2017, the District has utilized the services of Denovo Ventures, LLC (Denovo) for information systems disaster recovery. The services are focused primarily on the District's Enterprise Resource Planning (ERP) and Customer Information System (CIS) platforms for disaster recovery and business continuity purposes. With the recent implementation of the Tyler Munis ERP system, the legacy JD Edwards ERP system needs to be archived and remain accessible by staff for historical reference. JD Edwards runs on-premises using aging servers with maintenance contracts that expire later this year. As a result, staff solicited a proposal from Denovo to convert the current disaster recovery service for JD Edwards to function as an archive environment hosted within its datacenter.

RECOMMENDATION(S):

Accept the proposal from Denovo Ventures, LLC, and authorize the General Manager to execute a three-year agreement, in the annual amount of \$94,800, plus a one-time initial fee of \$14,000, to provide cloud archive and remote disaster recovery services.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Sufficient funds are available in the adopted Fiscal Year 2020-21 Budget. The total first-year cost of the services would be \$108,800. This amount includes an annual cost-savings of \$20,184 for remote disaster recovery services.

DISCUSSION:

The District's new ERP system, Tyler Munis, went live in December 2020. Tyler Munis replaced the District's legacy JD Edwards (JDE) ERP system, which had been in use since 1996. JDE runs on three servers at the District, and the system is covered by hardware maintenance contracts with Dell and IBM. The maintenance agreement with IBM ends on September 30, 2021, and will no longer be available for renewal. Because the JDE system needs to remain functional for historical reference purposes, a new approach is required to continue providing staff with access to the system.

Denovo Ventures, LLC, currently provides the District with disaster recovery services for the JDE environment and submitted the attached proposal to transition its services to include a cloud archive environment that is accessible by staff. The archive environment would be hosted on Denovo's datacenter, which would require access via a secure virtual private network (VPN). The cloud archive services would require an initial one-time setup fee of \$14,000 and an on-going monthly fee of \$4,500. In addition, Denovo would continue to provide the District with disaster recovery services for a monthly fee of \$3,400, which is a reduction from the current monthly fee of \$5,082.

If accepted, the previous Denovo disaster recovery contract would terminate and be replaced by an updated three-year contract, in the annual amount of \$94,800, plus a one-time initial fee of \$14,000, for the JD Edwards cloud archive environment and CIS disaster recovery services. The contract would include five concurrent users, a fully-managed archive environment and functional support for continued access to JDE. By moving the JDE environment to Denovo's datacenter, the District would maintain access to the legacy system for as long as required and would not have to rely on aging equipment that is not longer supported.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Andrew Spear, Principal Technology Analyst

ATTACHMENTS:

Denovo Proposal



MANAGED SERVICES SERVICE ORDER - 001

This **Service Order** ("**SO**"), dated as of the 1st day of July, 2021 ("**Effective Date**"), is by and between **DENOVO VENTURES LLC**, a Colorado limited liability company ("**Denovo**" or "**Consultant**"), and Las Virgenes Municipal Water District, a California Company (the "**Customer**", or "**Company**") (each a "**Party**" and together the "**Parties**").

Pursuant to Section 3 (Scope of Services), in the Master Services Agreement ("MSA") dated December 22, 2016, Denovo and Customer desire to enter into this SO for the performance by Denovo of certain Services, described herein. This SO provides details of the Service Entitlements, Definitions, Service-specific terms, and the Customer's one-time and recurring fees.

The defined terms used in this SO are defined in Exhibit A "Definitions".

Denovo's Standard Operating Processes, Service Level Agreements, Service Level Credits and Other Terms are defined in Exhibit B.

The Services Description for the Denovo Services are defined in Exhibit C.

1. Term and Termination

The Initial Term of this SO is thirty-six (36) months following the Effective Date. This SO will renew, automatically, for successive one (1) year terms, unless a party provides written notice of non-renewal at least sixty (60) days before the end of the current term. Such notice of non-renewal will become effective on the date an Initial Term or Successive Term expires.

2. Entitlements, Service Fees, Payment Schedule

2.1 Entitlements

Service Description	Effective Date	End Date	Entitlements
Applications	7/1/2021	6/30/2024	JD Edwards EnterpriseOne applications currently in production.
Cloud Services	7/1/2021	6/30/2024	<ol style="list-style-type: none"> 1. Five (5) Named Users for the Oracle applications. 2. Read Access - Only 3. Service Availability 99.5 4. Security appliance to protect user access 5. One (1) Deployment Server 6. Protected Storage of 1.4 Terabytes
Disaster Recovery Services	7/1/2021	6/30/2024	<ol style="list-style-type: none"> 1. Remote Disaster Recovery for the servers (LV-CIS4 and LV-DC2). A total of up to twenty eight (28) VCPU, eighty-two (82) GB of RAM, and twenty-six (26) terabytes of storage. 2. RPO of one (1) hour, RTO of twelve (12) hours 3. One (1) Annual DR Test
Data Protection and Protection Services	7/1/2021	6/30/2024	Denovo will provide the Services as defined in the Service Description.

Service Description	Effective Date	End Date	Entitlements
Application Operations Services	7/1/2021	6/30/2024	Denovo will provide the Services as defined in the Service Description.
Infrastructure Management Services	7/1/2021	6/30/2024	Denovo will provide the Services as defined in the Service Description for the Cloud Services.
Change Management Services.	7/1/2021	6/30/2024	Denovo will provide the Services as defined in the Service Description for the Cloud Services.

Denovo will provide implementation services to migrate Customer from their current production environment to the Cloud Service provided by Denovo. The Services include:

- Project Management
- Compute Build
- Installation of Software
- Migration Services
- Assistance with Validation of Archive Environment
- Cutover Support
- Create Gold Copy Backup

2.2 Service Fees

Unless otherwise agreed in writing by both Parties, Denovo will invoice Customer on a quarterly in advance, commencing on the Effective Date and continuing through the Initial Term and all Successive Term(s). The Service Fee schedule for the Services provided under this SO are as follows:

Description	Effective Date	Term Date	Onetime Fees	Monthly Fees
Cloud Archive Services	7/1/2021	6/30/2024	\$14,000	\$4,500
Remote Disaster Recovery Services	7/1/2021	6/30/2024	\$0	\$3,400
Total				\$7,900

Effective with the execution of this SO, SOW004 for Remote Disaster Recovery Services will be terminated.

2.3 Pricing

- i. Additional terabytes of managed, protected storage above those included in the Services and specified in Section 2 of this SO shall be metered and invoiced to Customer in monthly in arrears at the rate of two hundred fifty dollars (\$250.00) per terabyte per month.
- ii. Customer will: (i) reimburse Denovo for all shipping, printing, copying, and other incidental services reasonably incurred by Denovo in providing the Services requested by Customer at cost; and (ii) pay Denovo, at agreed rates, for other additional expenses and services, including, but not limited to, travel, hourly additional support or consulting services, remedy of Customer procedural use errors, additional telecommunications carrier charges provided by Denovo, all as may be agreed in advance by the



Customer and Denovo ("Other Charges") and in accordance with Section 4 of the MSA. Other Charges shall be payable monthly, in arrears.

[REMAINDER OF PAGE LEFT INTENTIONALLY BLANK - SIGNATURE PAGE TO FOLLOW]



IN WITNESS WHEREOF, Denovo and Customer have executed this SO as of the date set forth above.

DENOVO VENTURES, LLC

By: _____

Name: _____

Title: _____

Date: _____

Las Virgenes Municipal Water District

By: _____

Name: _____

Title: _____

Date: _____

Exhibit A Definitions

As used in this Statement of Work the following terms shall have the respective meanings set forth therein. Other terms used in this Statement of Work are defined in the context in which they are used and shall have the meanings therein indicated.

- a. **Agreement.** Each SOW, SO, applicable Change Order and other documents executed pursuant to the MSA, combined with the MSA
- b. **Audit.** The access and audit of Denovo's records, facilities, and locations in which Denovo performs Cloud Services for Customer, Denovo equipment, Denovo software and supporting documentation of Denovo and its subcontractors.
- c. **Connectivity.** Customer is responsible for providing communication connectivity from Customer's network to Customer's hosted environment at Denovo.
- d. **Customer Care Portal.** A web-based service that allows Customers to report problems, request information and view system metrics.
- e. **Data Center Network.** The portion of the Denovo network extending from the outbound port on Customer edge device to the outbound port of the data center border router and includes Denovo managed switches, routers, and cabling.
- f. **Disaster.** Any unplanned event or condition that renders Customer unable to use, for its intended computer processing and related business purposes, the Denovo Services, reasonably projected by both Customer and Denovo to last more than four (4) consecutive hours.
- g. **Disaster Declaration Notice.** The notice which the Customer is to provide to Denovo upon the occurrence of a Disaster requesting access to and use the Service set forth herein of this Statement of Work. Any verbal declaration must be followed by written or email notice within 24 hours of the Disaster Declaration Notice.
- h. **Effective Date.** The date this SO is executed and goes into effect.
- i. **Incident.** An unplanned interruption or reduction in the quality of Services which is classified according to the severity levels set forth in this SO.
- j. **Initial Term.** The period from the Effective Date through the duration of the initial SO.
- k. **Patches.** All patches, bug fixes, updates, maintenance, and service packs necessary for the function and security of the Services.
- l. **Planned Maintenance.** Total minutes of planned maintenance in the month.
- m. **Quarterly Period.** A three month period with the first period beginning on the 1st day of the month after the Effective Date of the Service and ending on the last day of the third month. Unless the Termination Date is less than three months subsequent periods will have a duration of three months.
- n. **Service.** Generally, all the services Denovo agrees to provide the Customer as set forth in this SO.

- o. **Service Availability.** The various specifics of services availability including, without limitation, uptime objectives and downtime credits, as more fully described herein.
- p. **Service Level Credits.** Credits to the Customer account for failure to meet and Service Level Objectives.
- q. **Service Level Objectives.** All the service level standards in this SO that pertain to the Cloud Services.
- r. **Statement of Work (“SOW”) or Service Order (“SO”).** A document that sets forth more specifically the Services, Service Levels Denovo will provide the Customer, a schedule of Fees and Charges, as well as any further terms and conditions that may apply to the Services Denovo will provide the Customer. For purpose of referencing the terms in the MSA any reference to Statement of Work or SOW will also apply to a Service Order or SO.
- s. **Successive Term.** The time the Agreement renews for as defined herein after the Initial Term.
- t. **Termination Date.** The date on which the Agreement is terminated or expires.
- u. **Unplanned Downtime.** Any time the Service is unavailable as measured by an automated probe (script) that will poll the Service, but does not include any time during which the Services or any Services component are not available due to (A) A failure or degradation of performance or malfunction resulting from scripts, data, applications, equipment, infrastructure, software, penetration testing, performance testing, or monitoring agents directed, provided or performed by Customer; (B) Planned outages scheduled or announced maintenance or maintenance windows, or outages initiated by Denovo at the request or direction of Customer for maintenance, activation of configurations, backups or other purposes that require the service to be temporarily taken offline; (C) Outages occurring as a result of any actions or omissions taken by Denovo at the request or direction of Customer; (D) Outages resulting from Customer equipment, or third party equipment not within the sole control of Denovo; (E) Outages due to system administration, commands, or file transfers performed by Customer users or representatives; (F) Inability to access the Services or outages caused by Customer’s conduct, including negligence or breach of Customer material obligations under the Agreement, or by other circumstances outside of Denovo’s control; (G) Lack of availability or untimely response time of Customer to respond to incidents that require Customer participation for source identification and/or resolution, including meeting Customer responsibilities for any Services; or (H) Outages caused by failures or fluctuations in electrical, connectivity, network or telecommunications equipment or lines due to Customer conduct.

Exhibit B **Standard Operating Procedures / Service Levels / Other Terms**

Denovo's Standard Operating Procedures, Service Level Agreements, and Service Level Credits are defined below.

1. Customer Support Procedures

1.1 Service Desk

- i. Authorized Customer users will communicate issues via phone or Customer Care Portal to the Service Desk by creating a Service Ticket. Each service request will be assigned a trouble ticket number for tracking.
- ii. At the time Denovo accepts a service ticket, Denovo will record an initial severity level of the service ticket based on the severity definitions included in the table below. The severity level of a service ticket may be adjusted. If, during the service request process, the issue no longer warrants the severity level currently assigned based on its current impact on the production systems, then the severity level will be downgraded to the severity level that most appropriately reflects its current impact. If, during the service request process, the issue warrants the assignment of a higher severity level than that currently assigned based on the current impact on the production systems, then the severity level will be upgraded to the severity level that most appropriately reflects its current impact. Customers shall ensure that the assignment and adjustment of any severity level designation is accurate based on the current impact on the production systems. Customer acknowledges that Denovo is not responsible for any failure to meet performance standards caused by Customer's misuse or misassignment of severity level designations.
- iii. The technician receiving the Service ticket will communicate with the Customer promptly upon receipt that they have been assigned the Service ticket and are working the issue. This may result in the exchange of dialog/emails to further understand the issue. The Service ticket will be worked according to Customer support Tier levels described below in Section 4c.
- iv. Once a Service ticket is resolved, it will be documented both at the Service desk and with the individual who requested the Service ticket.

2. Service Level Agreement (SLA) – Time to Respond SLA

Description	Severity	Response Time	Resolution Time	Escalation Threshold
<p>Client's production systems are stopped or so severely impacted that Client cannot reasonably continue work. Client experiences a complete loss of service. The impacted operation is mission critical to the business and the situation is an emergency. A Severity 1 service request has one or more of the following characteristics:</p> <ol style="list-style-type: none"> 1. Environment is down and/or inaccessible by Client's End Users. 2. Data is corrupted, resulting in a complete halt to Client's business operations 3. Environment hangs indefinitely, causing indefinite delays for critical resources or response <p>Denovo will use reasonable efforts to respond to Severity 1 service requests within 15 Minutes. Denovo will work 24x7 until the Severity 1 service request is resolved, a reasonable work-around is put in place, or as long as useful progress can be made. Client must provide Denovo with a contact during this 24x7 period to assist with data gathering, testing, and applying fixes. Client is required to propose this severity classification with great care, so that valid Severity 1 situations obtain the necessary resource allocation from Denovo.</p>	Severity One	15 Minutes	Best Effort	1 Hour
Client experiences a severe loss of service. Important features of the production systems are unavailable with no acceptable workaround; however, operations can continue in a restricted fashion.	Severity Two	2 Hours	Best Effort	4 Hours
Client experiences a minor loss of service. The impact is an inconvenience, which may require a workaround to restore functionality.	Severity Three	12 Hours	Best Effort	48 Hours
Client requests information, enhancement, or documentation clarification regarding a Denovo Service, but there is no impact on the production systems. Client experiences no loss of service.	Severity Four	24 Hours	Best Effort	72 Hours

3. Cloud Services Service Levels and Credits

3.1 Service Levels

For Cloud Services in Denovo Private Cloud the following Service Levels and Credit will apply. Commencing at the Go Live Date (defined as the date Customer accepts the Services and it is placed into production) and provided that Customer remains in compliance with the terms and conditions of the Agreement, Denovo will provide Customer with the Services in adherence with the Service Level Objectives and procedures set forth herein.

- i. Commencing at Denovo's activation of the Customer's Cloud environment but excluding any time during which the Services or any Services components are not available for Maintenance Services, Denovo will make available the Service(s) described in this SO, at the Service Availability defined in the Entitlements, of the time in any calendar month during the Term of this SO ("Service Availability").
- ii. Service Availability is calculated as the total number of minutes in the calendar month less the total number of minutes that the Applications are not available in that month, divided by the total number of minutes in the calendar month. For the absence of doubt this is:

$$\frac{\text{Total Minutes in Month} - \text{Minutes Not Available}}{\text{Total Minutes in Month}}$$

- iii. The availability of the Cloud Services and Applications will be measured by commercial available and Denovo developed monitoring tools and utilities that may include means the ability to use the Cloud Services required by the Applications may include sample Applications transactions within the Cloud Services.
- iv. Specifically excluded from the number of minutes that the Applications are not available are (i) planned interruptions to the Services including Maintenance Time, (ii) reasons of Force Majeure (as defined in the MSA), (iii) items outside Denovo's Immediate Control (as defined below); (iii) time associated with any misuse of the Services by Customer or its authorized third parties, or (iv) time associated with a service interruption caused by an external security threat.
- v. "Service Availability" will incorporate and apply only to those resources, items, or events in Denovo's Immediate Control. Immediate Control is defined as Denovo's network services to the Internet Service Provider ("ISP") circuit termination in Denovo's Cloud Services. Immediate Control excludes:
 - a. Customer's data and content.
 - b. Customer's desktop computer hardware.
 - c. Customer's network services which allow the Customer to access the Services.
 - d. the delivery, performance, and functionality of Applications software, support, and services provided by third party and Application software licensors.
- vi. Any periods of service interruption initiated by Denovo at the request or direction of Customer that require the Services to be temporarily unavailable are excluded from the calculation of the Services availability.

3.2 Service Availability Credits

In the event of a failure by Denovo to meet the Service Availability for Cloud Services as set forth in this SO, as Customer's sole and exclusive remedy, at Customer's request, Denovo shall provide Service Level Credits in accordance with the following:

- i. First month of missed availability or response time: The Parties shall meet to discuss possible corrective actions.
- ii. Second consecutive month: 5% of the charges for the applicable month for the affected Cloud Service
- iii. Third consecutive month: 10% of the charges for the applicable month for the affected Cloud Service
- iv. Fourth consecutive month: 15% of the charges for the applicable month for the affected Cloud Service
- v. Fifth consecutive month: 20% of the charges for the applicable month for the affected Cloud Service
- vi. Sixth consecutive month: 25% of the charges for the applicable month for the affected Cloud Service
- vii. More than six consecutive months: Customer shall have the option to terminate the SO and upon such termination Customer shall receive a refund of all prepaid and unearned Cloud Services fees. Service Level Credits shall be deducted from subsequent invoices for subscription fees or other fees or, upon expiration or termination of the Agreement, paid to Customer directly.

Service Level Credits as outlined above shall be Denovo's sole liability and Customer's exclusive remedy for failure to meet any Service Level Objective.

Following the end of each calendar month, Denovo measures the Service Availability for the immediately preceding month as defined in this SO. Denovo will provide Customer with access notifications via the Customer Care Portal. This portal will provide metrics on system availability for Cloud Services purchased under this SO. Upon the Customer's reasonable request, the Customer will have the right to receive (i) reasonably detailed existing Denovo Service Level reports and measurement data from Denovo and (ii) additional Service Level data and reports, such as the Customer may define and Denovo has available.

4. Monitoring

- i. **Monitoring.** Denovo uses a variety of software tools to monitor (i) the availability and performance of the Cloud Services environment, and (ii) the operation of infrastructure and network components.
- ii. **Monitored Components.** Denovo monitors all levels of the Service infrastructure, and currently generates alerts for CPU, memory, storage, database, and network components. Denovo's operations staff attends to any automated warnings and alerts associated with deviations of the environment from Denovo defined monitoring thresholds and follows standard operating procedures to investigate and use its commercially reasonable best efforts to resolve underlying issues.
- iii. **Customer Monitoring & Testing Tools.** Due to potential adverse impact on service performance and availability, Customer may not use its own monitoring or testing tools (including automated user interfaces and web service calls to any Cloud Service) to directly or indirectly seek to measure the availability, performance, or security of any application or feature of or Service component within the services or environment. Denovo reserves the right to remove or disable access to any

tools that violate the foregoing restrictions at Customer's expense and without any liability to Customer.

5. Customer Support Tiers

Support Tier	Description
Tier 1	All support incidents begin in Tier 1, where the initial service request is created. The issue is identified and clearly documented, and basic hardware/software troubleshooting is initiated.
Tier 2	All support incidents that cannot be resolved with Tier 1 Support are escalated to Tier 2, where more complex support on hardware/software issues can be provided by more experienced engineers.
Tier 3	Support Incidents that cannot be resolved by Tier 2 Support are escalated to Tier 3, where support is provided by our most experienced, senior engineers who have the ability to collaborate with 3rd party (vendor) support engineers to resolve the most complex issues.

6. Support Hours

- i. **Standard Business Hours** – Support and management of Customer’s Application will be provided to the Customer by Denovo between the hours of 7:00 am – 7:00 pm Mountain Standard Time Monday through Friday, excluding public holidays, unless stated otherwise in Section 2 of this SO.
- ii. **Service Outside Normal Working Hours** - Emergency services (Severity 1) will be performed outside of Normal Working Hours and are included in this service and will not be billed separately. All other services will be performed during Normal Working Hours.

7. Other Terms

- i. Any Change implemented by Customer that could affect the performance of Denovo’s tools (i.e. management, monitoring, etc.) or Denovo’s ability to monitor/manage/support the environment must be agreed to by both parties, in writing, prior to implementation.
- ii. Customer shall advise Denovo of applicable regulatory requirements or obligations which may affect Denovo's provision of the Services.
- iii. Denovo is not responsible for any interruption of the Services caused by other activities Customer directs, denial of Service attacks, national or worldwide incidents of computer viruses, natural disasters, changes resulting from government, political, or other regulatory actions or court orders, strikes or labor disputes, acts of civil disobedience, acts of war, acts against parties (including carriers and Denovo’s other vendors), and other force majeure items as set forth in the Agreement provided that Denovo utilizes commercially reasonable efforts under the circumstances to minimize the impact of the force majeure event on the Customer.
- iv. Customer will not use, or permit use of, the Services in a manner, which is (i) illegal; (ii) infringes the patent, copyright, trademark, confidential information or intellectual property rights of a third party; or

(iii) violates general standards of behavior on the Internet, collectively "Service Misuse". Customer shall be responsible for any such Service Misuse and indemnify Denovo, its employees, affiliates, agents, licensors, suppliers and subcontractors against any liabilities arising from or relating to any such Service Misuse.

- v. Customer's system will have potential security vulnerabilities, even with the Services, including, but not limited to, the vulnerability of Customer's network or systems to (i) access by persons within Customer's organization which exceeds the authority granted to such persons; (ii) snooper attacks by persons granted access by Customer to its network to obtain and misuse access codes, passwords and other data; (iii) physical access to equipment at Customer sites; and (iv) access to passwords and similar information that is written down or otherwise not afforded an appropriate level of protection by Customer. Denovo does not guarantee that the Services will eliminate all risk or prevent damage from network or system security breaches such as the above.
- vi. All Customer Desktop PC's and Notebooks/Laptops that connect to the Managed Environment with Microsoft Windows Operating Systems must be running a supported version as it relates to the Application software and have all of the latest Microsoft Service Packs and Critical Updates installed. This is especially important as it relates to supported browser versions. All Server and Desktop Software must be Genuine, Licensed and Vendor-Supported. Denovo is responsible for all equipment located in Denovo Data Center. Customer shall advise Denovo of regulatory requirements or obligations which may affect Denovo's provision of the Services.
- vii. The Customer will supply Denovo personnel with reasonable accommodations and any physical or online access to any Customer facilities, personnel, locations, or networks as reasonably necessary to perform the Consulting Services. If it becomes necessary for Denovo personnel to be on-site at a Customer location, Denovo will give the Customer advance notice. Denovo will obey, and will ensure that all Denovo personnel obey, whenever on site at any Customer location or any other facility that is owned, leased or operated by the Customer or any of its affiliates, all lawful, reasonable and applicable rules and regulations as well as the Customer's reasonable policies, standards, and procedures, as such policies are communicated in writing by the Customer to Denovo from time to time. The Customer will have the same obligations with regard it to its personnel on Denovo premises. Such rules and policies will not operate to materially change the terms of the Agreement. Denovo and Customer will each designate a point of contact for the Consulting Services and will work together to detail necessary project plans and approaches. Notwithstanding any other provisions herein, the Customer acknowledges that Denovo's ability to provide the Consulting Services is likely to be affected if Customer does not provide the necessary access and assistance, and Denovo shall have no liability for any delays or cost increases caused by the Customer's failure to provide such access and assistance.
- viii. Customer is responsible for all third-party software licensing and maintenance and agrees to comply with all applicable third-party end-user license agreements.
- ix. If it is necessary for Denovo to provide Time and Materials ("T&M") Services for additional Customer network discovery, the Denovo Professional Consulting Services group will provide a separate Statement of Work that defines timelines, tasks and the services rate per hour required to complete the work.
- x. This SO outlines the full breadth of Services to be provided by Denovo to Customer. Any omission of pre-requisites or need for additional services shall result in a Change Order Request, or support will be best effort on a next business day basis.

- xi. Any requested Change to the Customer's environment once it has been implemented may be subject to additional fees.
- xii. Additional Services may be added or deducted via the Change Order Request process as defined in the MSA.
- xiii. It is understood that any Federal, State, or Local Taxes applicable shall be added to each invoice for Services or materials rendered under this Agreement. Customer shall pay any such taxes unless a valid exemption certificate is furnished to Service Provider for the State of use.
- xiv. This SO does not include any travel expenses, if required, to Customer's facility.
- xv. Upon completion of the implementation Denovo will backup Customer's data and will maintain this backup ("Gold Copy"). In the case of a disaster Denovo will restore the Gold Copy to Customer's environment.
- xvi. Customer acknowledges this is a read only environment and is not designed for production use.

8. Service Modification or Discontinuation

- i. Subject to the notice provisions below, Denovo reserves the right to modify or discontinue Services and to introduce new Services and features. Denovo may make available to Customer all new services and features offered to all our other Customers. Denovo may, in our sole discretion, discontinue a Service at any time. Denovo will give Customer 90 days' notice of the discontinuance of a Service. Discontinuance does not affect Orders accepted prior to the date of discontinuance, but new Orders for a Service will not be accepted after the date the Service is discontinued.
- ii. Denovo may, in our sole discretion, modify a Service from time to time, for example to work with new third-party products and services and to stay current with changing standards. Denovo will give Customer thirty (30) days' written notice of the modification of a Service and of substantive modifications to a Service description. Such modifications will affect both existing Services and new Orders. Within sixty (60) days of receipt of a notice of modification to a Service, Customer may cancel Order(s) for that Service without liability for cancellation charges if the modification has made the Service materially less useful to Customer.

Exhibit C
Service Description

Based on the Service Entitlements, Denovo will provide Customer with the Services as set forth in this SO. The Services are solely for use in accordance with the MSA by those persons identified by Customer who are authorized to use the Services (“Named Users”), in return for the consideration specified. Any applicable extensions and limitations to the Services Entitlement are set forth in the Service Entitlements defined herein.

1.1 Cloud Services.

- i. Denovo will provide remote access to compute services, software, communications, network services, and data storage such that Customer may perform operations using the application software described in this SO (the “Application” or the “Applications”). Customer is responsible for licensing the Applications. and supplying them to Denovo to be used in the provision of the Services.
- ii. Denovo will select, provide, and operate the computing hardware, system software, data storage, and other resources needed to make the Applications available to Customer at a facility selected and provisioned by Denovo (the “Cloud Services”). Limitations and entitlements to the Cloud Services are in this SO.
- iii. Denovo will be responsible for procuring and administering maintenance for the Cloud Services. Changes made to products or release levels used in the Cloud Services will be completed in accordance with Denovo Change Management Services (defined herein).

1.2 Data Storage and Protection Services.

- i. As set forth in this SO and its attachments Denovo will make available to Customer appropriate data storage on which to store and maintain Applications data for use with the Applications.
- ii. Denovo will create and manage backup copies of Applications data and software used in the Services in accordance with Denovo data backup and protection procedures associated with each Customer workload. Data Storage and Protection Services include the offsite storage of backup copies of Applications data.
- iii. Backup and data protection processes shall be conducted as to not impact the performance or processing of the Applications, or at a time mutually agreed upon by the Parties. Any applicable limitations to the Service Resources entitlements are set forth in the Attachments to this Service Description.

1.3 Application Operations Services.

- i. Denovo will support the Applications at all times. The Applications will be scheduled to be available to Customer at all times except for when system maintenance may be conducted within the Maintenance Services Period (defined below). Customer’s ability to access the Applications will be monitored twenty-four (24) hours per day on all days, with the exception of any “Maintenance Time”.
- ii. Denovo will perform Application Operations Services on all days, at all times. Application Operations Services consist of: (i) remedial and preventative maintenance of the Cloud Services designed to minimize the occurrence and duration of any service degradation or interruption; (ii) responding to incidents submitted by any Named User regarding problems with the Cloud Services Resources,

problems completing tasks which previously completed successfully, and (iii) responding to Customer service requests.

- iii. As part of its Application Operations Services, Denovo will review and manage the Applications at all times, on all days to maintain the configuration, integration, availability, performance, and stability of the Applications. Denovo shall provide incident resolution for performance problems, operations issues, and errors. These Services may also include (i) Application incident management, (ii) Application maintenance routines, (iii) Application monitoring, (iv) Application performance management, (v) Application and runtime code refreshes and data copies, (vi) Application operations reporting and (vii) Application monitoring.
- iv. Denovo Application Operations Services includes the implementation of vendor-provided modifications and remedial “Patches” to address reported or discovered Application performance or functionality problems. Denovo implements Application Patches in accordance with its Change Management Services in a commercially reasonable timeframe following its receipt of the Patch. Customer is responsible for procuring maintenance of the Applications under terms permitting Denovo to request, receive, and administer that maintenance on Customer’s behalf.
- v. When authorized and enabled by Customer, Denovo will escalate Application software issues to the software provider and will manage those issues through resolution.

1.4 Disaster Recovery Services.

- i. Disaster Recovery Services are invoked when an unplanned event or condition renders Denovo unable to provide the Cloud Services. Disaster Recovery Services provide for restoration of the Services as set forth in this Service Description through an encrypted network connection. The Recovery Time Objective (“RTO”) defines the target amount of time that the Applications remain unavailable. The Recovery Point Objective (“RPO”) represents the target point in time, prior to a Contingency Event, to which data can be recovered.
- ii. Denovo will provide Disaster Recovery Services for the then current version of the Applications, excluding any elements that were in development or testing. In addition to the other services specified in this SO, Disaster Recovery Services include monitoring and management of the target environment to include data replication management, synchronization management, audit reports, data latency and performance management, and internal testing and validation checks.
- iii. With Customer or in conjunction with other Customers, Denovo will schedule and conduct one (1) test of the Disaster Recovery Services. This will include the execution of failover if requested by Customer, assist Customer with validation of solution to include application functionality, record counts, etc., creation and management of Disaster Recovery Plan.

1.5 Infrastructure Management Services

- i. Denovo will provide Infrastructure Managed Services for Customer as defined in the Entitlements. The Service includes comprehensive monitoring, professional Network Operations Center (NOC) as a Service. Denovo provides this Services by using ITIL Best Practices Incident Management to provide a structured, formalized framework . The Service is provided for all Cloud Services managed by Denovo, and for Remote Infrastructure as defined in the Entitlements.

- ii. The Service may include the management of Customer's converged environment to include spinning up and decommissioning VM's efficiently managing the resources, software upgrades as required, troubleshooting and managing the converged node(s).
- iii. Denovo is responsible for managing the Customer's environment to include managing and implementing group policy changes as directed by Customer, troubleshooting, monitoring logs, managing system patching, and alerting Customer as needed.
- iv. Denovo provides inventory management and documentation for specified addressable devices.
- v. Denovo deploys a comprehensive portfolio of monitoring tools and utilities presented through our Customer Portal. The monitoring and surveillance is provided 24/7/365 and is supported by a service call matrix to efficiently notify key Customer contacts. The implementation of these tools for remote Customers will require a small virtual machine to implement the tools and utilities.
- vi. Denovo's remediation practices includes root cause analysis to identify the underlying cause of the problem. Denovo's objective is to ensure that the issue is resolved permanently.
- vii. As an option Denovo can provide workstation and/or desktop patching, security operations, implementation of compensating controls, network optimization, request management, problem management, and service desk as a service.

1.6 Change Management Services.

- i. Denovo will follow its defined Change Management Process in completing changes to the Services. This may include changes to products or release levels used in the Services. This may also include installing and implementing Application Patches ("Change Management Services"). The Change Management Process will include, at a minimum: (i) advance notification to the Service Coordinator of the change to be conducted, its work steps and expected timetable; (ii) preparation of a written change management plan which identifies the specific change, the Services components affected by the change, Denovo and Customer testing steps, a risk assessment, a recovery or back-out plan to include risk mitigation measures, (iii) submission of the change management plan to the Denovo Change Approval Board for approval prior to implementation; (iv) testing of changes in non-production environments or, in if not practical, during time periods as approved by Customer; (v) coordination of the implementation of the change with the Service Coordinator; (vi) verification of the successful completion of the change with the Service Coordinator; and (vii) posting the results of the change to Denovo service management systems.

1.7 Maintenance Services.

Denovo will use its commercially reasonable and diligent efforts to perform maintenance on the Applications during the hours and days agreed to by Customer and set forth in this SO and its Attachments (the "Maintenance Services Period"). Denovo will notify Customer in accordance with its Change Management Services and then perform the specified maintenance on the Applications ("Maintenance Time"). Denovo will provide advance notice of its planned activities during the Maintenance Services Period through its customer support procedures. Customer will be notified of the complete of the Maintenance Services by Denovo after those Applications used by the Customer have successfully completed validation and testing.



June 1, 2021 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Engineering and External Affairs

**Subject : Stationary Emergency Generators for Critical Pump Stations Project:
Approval of Scope Change No. 3**

SUMMARY:

On November 18, 2019, the District executed a professional services agreement, in the amount of \$25,850, with Hamner and Jewell for property-related services associated with the Stationary Emergency Generators for Critical Pump Stations Project. The original scope of work consisted of facilitating the acquisition of a small portion of land from the Los Angeles County Department of Parks and Recreation (LACDPR) for a new emergency generator at the Seminole Pump Station. The new stationary emergency generators are intended to support the continuous operation of the pump stations during a loss of grid power. The project will enhance water system reliability during power outages related to Public Safety Power Shutoff (PSPS) events, wildfires, earthquakes or other natural disasters.

On November 17, 2020, the Board approved Scope Change No. 1, which authorized Hamner and Jewell to assist with the acquisition of property from the City of Hidden Hills for the stationary emergency generator at the Jed Smith Pump Station. Subsequently, Scope Change No. 2 was approved to obtain a title report for the property in the City of Hidden Hills. At this time, Scope Change No. 3 is recommended to allow the District to finalize the acquisition of 2,328 square feet of property adjacent to Seminole Pump Station.

RECOMMENDATION(S):

Authorize the General Manager to approve Scope Change No. 3, in the amount of \$4,125, for Hamner and Jewell to provide additional property-related services for the Stationary Emergency Generators for Critical Pump Stations Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Sufficient funds are available for the work in the adopted Fiscal Year 2020-21 Budget.

DISCUSSION:

The Woolsey Fire, which burned through the western portion of Los Angeles County and the eastern portion of Ventura County in November of 2018, impacted 66% of the District's service area. During the fire, multiple water system facilities experienced power outages that affected the District's ability to deliver water to customers. To increase system reliability in the event of future power outages, staff recommended procuring stationary generators at four critical potable water pump stations: Seminole, Cold Canyon, Jed Smith, and Twin Lakes. To date, the District has procured two 200 kW portable emergency generators to increase system reliability during power outages. However, the portable generators do not have sufficient capacity to operate some of the District's larger pump stations, and access to some of the stations may be challenging during an emergency. This project will enhance water system reliability during power outages caused by Public Safety Power Shutoff (PSPS) events, wildfires, earthquakes, and other natural or manmade disasters.

During the preliminary design process for the Stationary Emergency Generator Project, it was discovered that the property limits at the Seminole and Jed Smith Pump Stations do not provide the required clearance to accommodate a stationary emergency generator. Property acquisition is needed to provide adequate space and clearances. The Los Angeles County Department of Parks and Recreation (LACDPR) owns the property adjacent to Seminole Pump Station needed for the stationary generator. The Mountains Restoration Trust also owns a conservation easement on the property surrounding the Seminole Pump Station but indicated no future conservation efforts are planned for the requested property. The grant deed, legal description and appraisal report have been reviewed by LACDPR. District staff and legal counsel have reviewed a draft purchase and sale agreement for the property. Once approved by the District, the County of Los Angeles will bring the purchase and sale agreement to the Los Angeles County Board of Supervisors for approval.

On, November 19, 2019, a professional services agreement was administratively approved for Hamner and Jewell to assist with the property acquisition. The following two scope changes for the work have been approved to-date:

- Scope Change No. 1 (\$16,780): The City of Hidden Hills owns the property adjacent to the Jed Smith Pump Station. Staff contacted representatives of the City of Hidden Hills and Hidden Hills Community Association (HHCA) to discuss the possibility of a land transfer. After meetings with the City of Hidden Hills and HHCA, the City suggested that the property acquisition be processed as a lot line adjustment. The Board authorized Scope Change No. 1 to Hamner and Jewell, in the amount of \$16,780, on November 17, 2020, for additional consulting services to facilitate the lot line adjustment.
- Scope Change No. 2 (\$5,035): Authorized by the Board on February 16, 2021. The change order authorized Hamner and Jewell to procure the preliminary title report for the City of Hidden Hills property. The original estimate for obtaining the report was \$715;

however, the actual cost was \$5,750 due to the need for chain of title research that was not originally anticipated. The chain of title research was needed to identify potential water right claims, as the former owners may have owned an interest in the mutual water company that once provided water service to the area.

At this time, Scope Change No. 3 is required for an additional 25 hours of Hamner and Jewell staff time, at a cost of \$4,125, to cover preparation of property acquisition documents, escrow coordination and document processing.

The plans and specifications for the project are complete and a call for bids can be issued as soon as the property acquisition is completed. The final step before recommending a call for bids is finalizing the lot line adjustment for the Jed Smith Pump Station and acquiring the additional property for the Seminole Pump Station.

Following is a summary of the remaining steps at each location:

Jed Smith Pump Station, Lot Line Adjustment:

1. Complete the legal description and plat for 1,089 square feet of property adjacent to the Jed Smith Pump Station (Exhibit A).
2. Submit a minor lot line adjustment application to the City for review.
3. Obtain approval from the Hidden Hills City Council.
4. Accept the property.
5. Complete a Certificate of Compliance for the City of Hidden Hills.
6. Submit the final lot line adjustment to Los Angeles County for recordation.

Seminole Pump Station, Grant Deed:

1. Review and accept the purchase and sale agreement for 2,328 square feet of property adjacent to the Seminole Pump Station (Exhibit B).
2. Execute the purchase and sale agreement, approved as to form by District Counsel, under the General Manager's authority.
3. Purchase the property, in the amount of \$5,000, plus accrued cost by the County of Los Angeles, Department of Regional Planning for review of the legal description, plat and appraisal report.
4. Conclude a 30-day escrow.
5. Finalize the sale and submit the final grant deed to Los Angeles County for recordation.

Staff recommends that the Board authorize the General Manager to execute Scope Change No. 3, in the amount of \$4,125, for Hamner and Jewell to provide additional property-related services for the project, increasing the professional serviced agreement from \$47,665 to \$51,790.

GOALS:

Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

Prepared by: Mercedes Acevedo, E.I.T, Assistant Engineer

ATTACHMENTS:

Proposed Scope Change No. 3

Exhibit A - Jed Smith Pump Station Lot Line Adjustment

Exhibit B - Seminole Pump Station Plat

**CHANGE IN SCOPE TO
PROFESSIONAL SERVICES AGREEMENT # _____**

Project Title: _____

Consultant:DD _____

Nature Of Changes:

Fee Adjustment		
Previous Fee:		_____
Increase/Decrease:		_____
Estimate	Lump Sum	Not to Exceed
Revised Fee:		_____

Time Adjustment	
Previous Deadline:	_____
Additional Time:	_____
New Deadline:	_____

dba. Hamner, Jewell & Associates

Las Virgenes Municipal Water District

Date: _____

David W. Pederson, General Manager
Date: _____



HAMNER, JEWELL & ASSOCIATES

Government Real Estate Services

Right of Way Acquisition ~ Relocation Assistance ~ Real Property Consulting

Offices in Ventura, San Luis Obispo and Fresno Counties

Writer's Telephone Number: (805) 658-8844

Writer's email address: hjohnson@hamner-jewell.com

May 5, 2021

via email to: MAcevedo@lvmwd.com

Mercedes Acevedo
Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas, CA 91302

Subject: Las Virgenes Municipal Water District – Seminole Pump Station Acquisition
Acquisition Services - 2058-010-906 (Los Angeles County)

Dear Ms. Acevedo,

Thank you for speaking with me a couple of weeks ago. This is to follow up with our conversation and to formally request a budget amendment for our continued assistance Las Virgenes Municipal Water District's Seminole Pump Station Acquisition. As you know, we have been working on this project since the fall of 2019. During this time, we have assisted the District with obtaining the needed preliminary title reports, legal description, appraisal and conducted the necessary acquisition coordination with the County of Los Angeles ("County"). At this point, the County has approved the appraisal and legal descriptions and provided the acquisition documents to the District for review and approval.

We also spent time analyzing and consulting on the additional property rights needed on Jed Smith Pump Station site. This included our time to research and provide the District with information regarding the Sub-Division Map Act relating to public agencies being exempt from these requirements. As you know, this was not a part of our original scope of work, so we did not include time for this research and consultation in our original budget. Our current budget is therefore depleted.

We would suggest allocating a budget extension of \$4,125. This would cover up to 25 additional hours of HJA's staff time and our continued time and follow up with the County to get the acquisition documents processed for the Board of Supervisors' approval and escrow coordination and processing. Please let us know if you have any questions about this budget amendment request. We enjoyed working with you on this project and look forward to providing continued project support. Thanks!

Sincerely,

Heather Johnson

Heather Johnson
Project Manager

HAMNER, JEWELL & ASSOCIATES**(a Division of Beacon Integrated Professional Resources, Inc.)**

Hamner, Jewell & Associates is committed to providing the most cost effective, quality real estate services available. At all times, by pre-directive, our clients may structure and direct our efforts and general time expenditures so as to maintain control of the course of our scope of work and the cost of our services. We will bill only for time and costs actually expended in accomplishing the project goals in the most efficient and professional manner.

Our Fiscal Year 2020-2021 Rate Schedule, effective January 1, 2021, is as follows:

Managing Senior Associate	\$286 an hour
Senior Associates II	\$145-190 an hour
Senior Associates I	\$140-165 an hour
Associates II (Acquisition/Relocation)	\$120-140 an hour
Associates I (Acquisition/Relocation)	\$ 95-120 an hour
Contract Administrators	\$120-150 and hour
Project Coordinators	\$ 95-135 an hour
Transaction/Escrow Coordinators	\$ 85-110 an hour
Transaction Assistants	\$ 60-75 an hour
Assistants/Clerical Support	\$ 40-50 an hour
Appraisers	Lump Sum Fee per Appraisal Assignment

These rates are inclusive of general office expenses, overhead, and profit. Reimbursable costs that may be passed through to the client as additional expenses include travel expenses (based upon the standard IRS mileage reimbursement rate for automobile travel, or actual expenses for rail or air travel), special handling fees such as certified, express mail, and courier delivery charges, postage, photography, copy and printing, certain project/client-specific telephone expenses, and other charges made by third parties in connection with performing the scope of services. Such third party expenses may include, but are not limited to, such costs as moving bid fees, title and escrow company charges, notary fees, and appraisal fees. Fees charged by insurance companies for issuing insurance certificates for client per contract requirements will also be billed through to client for reimbursement. Per diem charges may apply in cases where the project area is more than two hours auto commuting time away from a Hamner, Jewell & Associates (“HJA”) office location.

All reimbursable and third party expenses will be billed to the client at cost plus 10%, with appropriate invoices or other appropriate documentation provided for reference, unless mark-up is contractually restricted. Mileage and travel costs will be passed through without mark-up.




Statements for work shall be rendered monthly. Payments are due within 30 days. Payments not received within said period will accrue interest at a rate of 10% per annum.

If HJA is called upon or compelled to provide support for litigation or other proceedings, or respond to subpoenas in any way whatsoever related to the work HJA has completed on client’s behalf, client shall pay HJA for required time in accordance with the hourly rates and fees specified in this Fee Schedule, except, however, any time for court testimony and depositions shall be paid at a rate of \$400/hour for HJA Senior Associates, \$250/hour for HJA Associates, and \$150/hour for HJA support staff. HJA shall additionally be reimbursed for all out-of-pocket and overhead expenses in connection with such proceedings. This provision shall survive the term of the contract and shall be binding without restriction or otherwise stated contract budget limitations.

Rates may be adjusted annually with thirty days advance written notice. Publication and distribution of this rate schedule shall be deemed such annual notice with regard to annual rate adjustment contractual provisions.

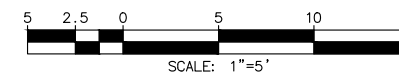
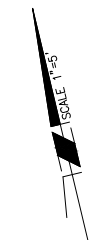


LEGEND

-  PROPOSED NEW PROPERTY TO MEET FIRE CODE CLEARANCE REQUIREMENTS FOR GENERATORS.
-  EXISTING DISTRICT PROPERTY LINE
-  PROPOSED PROPERTY LINE EXTENSION

NOTES:

APPROXIMATELY 1100 SQ. FT (0.025 ACRES) OF LAND ADDED TO DISTRICT PROPERTY AFTER PROPERTY LINE ADJUSTMENT.



WARNING 0 1/2 1 IF THIS BAR DOES NOT MEASURE 1" @ FULL SIZE OR 1/2" @ HALF SIZE THEN DRAWING IS NOT TO SCALE.		DESIGNED _____ DRAWN _____ REVIEWED _____ JOB NUMBER 172287			
REV.	DATE	BY	DESCRIPTION	APPROVED	DATE

SUBMITTED		
PROJECT ENGINEER	XXXXX	DATE

Michael Baker INTERNATIONAL
 5 Hutton Centre Drive,
 Suite 500
 Santa Ana, CA 92707
 Phone: (949) 472-3505
 MBAKERINTL.COM

LAS VIRGENES METROPOLITAN WATER DISTRICT	EXHIBIT
STANDBY EMERGENCY GENERATORS	17
JED SMITH PUMP STATION	OF 18
PROPERTY LINE ADJUSTMENT 12	

DOC No. 90-1581629, O.R.
PARCEL 2

DOC No. 90-1581630, O.R.
PARCEL 1

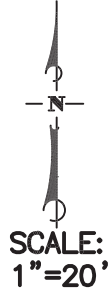
MULHOLLAND HWY

N12°19'05"W
13.11'R3

N77°40'55"E 102.75'R3

S12°19'05"E 72.45'R3

N55°16'31"W 81.08'R3
53.03'



P.O.B.
MOST SE'LY
CORNER R3

N12°19'05"W 52.53'

S77°40'55"W 47.50'R3

S12°19'05"E
32.00'

AREA: 2,328 SQ. FT.

S77°40'55"W 66.62'

LEGEND

- APN - ASSESSORS PARCEL No.
- DOC -DOCUMENT
- O.R. - OFFICIAL RECORDS
- P.O.B. -POINT OF BEGINNING
- SQ. FT. - SQUARE FEET

- R1 REC, 11/13/1968, INST. No. 3097
- R2 PARCEL 2, DOC. No. 90-1581629, O.R.
- R3 PARCEL 1, DOC. No. 90-1581630, O.R.

APN: 2058-010-906
DOC. No. 20071046819, O.R.



AREA OF DESCRIPTION



Stantec



EXHIBIT "B"
LAS VIRGENES
MUNICIPAL WATER DISTRICT
SEMINOLE PUMP STATION
COUNTY OF LOS ANGELES
STATE OF CALIFORNIA

290 Conejo Ridge Ave, Thousand Oaks, CA 93161
Phone: (805) 230-1266 Fax: (805) 230-1277

P.N. 2042573300

DWG: 2042573300-exb-b.dwg

PLOT DATE: 3/19/2021



REVISION NO. 2

Regular Board Meeting

May 11, 2021

12:00 p.m.

Tuesday, May 11, 2021

Meeting Schedule

9:00 AM	L&C
10:30 AM	RP&AM
11:30 AM	Break
12:00 PM	Board

Live streaming is available for all board and committee meetings on our mwdh2o.com website
([Click to Access Board Meetings Page](#))

Public Comment Via Teleconference Only: Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via teleconference only. To participate call (404) 400-0335 and use Code: 9601962.

MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012

1. Call to Order

- (a) Invocation: Sary Huang, Principal IT Analyst,
Information Technology Group
- (b) Pledge of Allegiance: Director Barry Pressman,
City of Beverly Hills

2. Roll Call

3. Determination of a Quorum

- 4. Opportunity for members of the public to address the Board on matters within the Board’s jurisdiction. (As required by Government Code Section 54954.3(a))

5. OTHER MATTERS AND REPORTS

- A. Report on Directors’ events attended at Metropolitan expense for month of April 2021
- B. Chairwoman's Monthly Activity Report
- C. General Manager's summary of activities for the month of April 2021

- D. General Counsel's summary of activities for the month of April 2021
- E. General Auditor's summary of activities for the month of April 2021
- F. Ethics Officer's summary of activities for the month of April 2021
- G. Presentation of Commendatory Resolution for Director Sylvia Ballin representing the City of San Fernando
- H. Presentation of Commendatory Resolution for Director Jesus Quiñonez representing the City of Los Angeles

CONSENT CALENDAR ITEMS — ACTION
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6. CONSENT CALENDAR OTHER ITEMS — ACTION

- A. Approval of the Minutes of the Meeting for April 13, 2021
(Copies have been submitted to each Director)
Any additions, corrections, or omissions
- B. Approve committee assignments

7. CONSENT CALENDAR ITEMS — ACTION

- 7-1** Adopt resolution to continue Metropolitan's Water Standby Charge for fiscal year 2021/22; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (F&I)
- 7-2** Approve and authorize the distribution of Appendix A for use in the issuance and remarketing of Metropolitan's Bonds; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (F&I)
- 7-3** Withdrawn

- 7-4** Authorize an increase of \$200,000 in change order authority for the contract to rehabilitate the Greg Avenue Pump Station; and authorize an increase of \$350,000 to an agreement with Black and Veatch, Inc. for a new not to exceed amount of \$1,250,000 for engineering support; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (E&O)
- 7-5** Award a \$2,022,000 contract to R2BUILD to upgrade the flow monitoring station at Mile 12 of the Colorado River Aqueduct; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (E&O)
- 7-6** Review and consider the city of Santa Monica's two Final Initial Study/Mitigated Negative Declarations and Addenda and take related CEQA actions; authorize the General Manager to enter into a Local Resources Program Agreement with the city of Santa Monica for the Santa Monica Sustainable Water Supply Project. (WP&S)
- 7-7** Authorize the General Manager to enter into agreement with participating member agencies to provide a credit to offset the increased costs and impacts incurred by a member agency associated with shifting deliveries to different service connections at the request of Metropolitan during calendar years 2021 and 2022; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (WP&S)
- 7-8** Adopt Metropolitan's 2020 Urban Water Management Plan, Appendix 11 Addendum to the 2015 Urban Water Management Plan, Water Shortage Contingency Plan, and their corresponding resolutions for submittal to the State of California; the General Manager has determined that the proposed actions are exempt or otherwise not subject to CEQA. (WP&S)
- 7-9** Express opposition, unless amended, for AB 1195 (Garcia, C., D-Bell Gardens): drinking water; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA (C&L)
- 7-10** Authorize the General Manager to grant a permanent power line easement to Southern California Edison traversing across Metropolitan-owned property in the city of San Jacinto and identified as Riverside County Assessor Parcel Number 432-120-013; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (RP&AM)

Subject updated

- 7-11** Authorize agreements for District housing and property improvements at the Colorado River Aqueduct pumping plants villages with: (1) Helix Environmental Planning, Inc. in an amount not-to-exceed \$250,000 for environmental documentation; and (2) Fugro USA Land, Inc in an amount not to exceed \$350,000 for geotechnical services; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (RP&AM)
- 7-12** Authorize contracts for Bond Counsel services with Hawkins Delafield Wood LLP, Jones Hall, A Professional Law Corporation, Nixon Peabody LLP, and Norton Rose Fulbright US LLP, Co-Bond Counsel services with Amira Jackson, Law Offices of Alexis S.M. Chiu, and Curls Bartling P.C., and Disclosure Counsel services with Stradling Yocca Carlson & Rauth, P.C. for the period ending June 30, 2024; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (L&C)
- 7-13** Report on *Imperial Irrigation District v. Metropolitan Water District of Southern California, et al.*, Los Angeles Superior Court Case No. 19STCP01376; and request to authorize an increase in the maximum amount payable under contract with Meyers Nave for legal services by \$210,000 to an amount not-to-exceed \$410,000; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA. (L&C)
[Conference with legal counsel – existing litigation; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(1)]

END OF CONSENT CALENDAR ITEMS

8. OTHER BOARD ITEMS — ACTION

None

9. BOARD INFORMATION ITEMS

- 9-1** Update on Conservation Program
- 9-2** Renewal Status of Metropolitan's Property and Casualty Insurance Program. (F&I)

Withdrawn ~~9-3~~ ~~Information on potential refinements to the performance provisions within the Local Resources Program. (WP&S)~~

10. FOLLOW-UP ITEMS

11. FUTURE AGENDA ITEMS

12. ADJOURNMENT

NOTE: Each agenda item with a committee designation will be considered and a recommendation may be made by one or more committees prior to consideration and final action by the full Board of Directors. The committee designation appears in parentheses at the end of the description of the agenda item e.g., (E&O, F&I). Committee agendas may be obtained from the Board Executive Secretary.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site <http://www.mwdh2o.com>.

Requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.



June 1, 2021 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Engineering and External Affairs

Subject : 2020 Urban Water Management Plan and Water Shortage Contingency Plan: Public Hearing and Adoption

SUMMARY:

On September 15, 2020, the Board accepted a proposal from Stantec Consulting, Inc., to prepare the District's 2020 Urban Water Management Plan (UWMP) and Water Shortage Contingency Plan (WSCP). The scope of work consisted of updating the 2015 UWMP and addressing new guidelines covering the required content of the document. At the Board meeting, staff will provide a summary of the 2020 UWMP. Attached for reference is a copy of the 2020 UWMP without the appendices. A full version of the document, including the appendices, is available on the District's website at <https://www.lvmwd.com/your-water/urban-water-management-plan>.

Pursuant to Section 10621(b) of the Water Code, the District provided a 60-day advance notice for preparation of the UWMP to local agencies and cities affected by the plan. Between February 24 and March 10, 2021, the District sent notices of preparation to the Metropolitan Water District of Southern California, Triunfo Water and Sanitation District, Calleguas Municipal Water District, counties of Los Angeles and Ventura, and the cities within the District's service area. The notifications were provided in anticipation of adoption of the UWMP in June 2021 and submission to the California Department of Water Resources (CADWR) by the July 1, 2021 deadline. Print notifications of the public hearing were also made pursuant to CADWR requirements.

Staff recommends conducting a public hearing to accept comments on the 2020 UWMP and WSCP. At this time, no comments have been received for the UWMP or WSCP. Absent substantive comments from stakeholders during the public hearing, staff also recommends that the Board pass, approve and adopt Resolution No. 2593, adopting the 2020 UWMP and WSCP. Once adopted, the UWMP and WSCP will be submitted to CADWR.

RECOMMENDATION(S):

Conduct a public hearing to accept comments on the 2020 Urban Water Management Plan and Water Shortage Contingency Plan; and pass, approve and adopt proposed Resolution No.

2593, adopting the 2020 Urban Water Management Plan and Water Shortage Contingency Plan.

RESOLUTION NO. 2593

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT ADOPTING THE 2020 URBAN WATER MANAGEMENT PLAN AND WATER SHORTAGE CONTINGENCY PLAN

(Reference is hereby made to Resolution No. 2593 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

FISCAL IMPACT:

No

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

There is no financial impact associated with holding a public hearing or adopting the UWMP and WSCP.

DISCUSSION:

The District is updating its Urban Water Management Plan (UWMP) and preparing its 2020 Water Shortage Contingency Plan (WSCP). The UWMP is a long-term water resource planning document required of all urban water suppliers by the California Water Code and intended to help guide the District's water resources planning into the future. The WSCP is another required document for water suppliers and is being prepared in conjunction with the 2020 UWMP.

An UWMP is a planning document used to ensure that water supplies and demands are balanced over a 20-year period, considering normal, single-dry and multiple-dry water years. The UWMP provides general guidance on water supply management issues and serves as the basis for evaluating the availability of water supplies for large development projects. It is not a specific action plan and should not be viewed as an exact blueprint for supply and demand management. The 2020 UWMP provides updated information on population growth and projections that affect future water supplies and demands.

On September 15, 2020, the District retained the services of Stantec Consulting, Inc., to prepare an update to the 2015 UWMP. Pursuant to Section 10621(b) of the Water Code, the District provided a 60-day advance notice of preparation for the 2020 UWMP to local agencies, counties and cities affected by the plan. The notice must be provided to any city, agency or county that receives water from the District. Between February 24 and March 10, 2021, the District sent notices to the following agencies and municipalities in anticipation of adoption of the UWMP on June 1, 2021:

- Triunfo Water and Sanitation District
- Metropolitan Water District of Southern California
- Calleguas MWD
- City of Hidden Hills
- City of Malibu
- County of Ventura
- Los Angeles County Department of Regional Planning
- City of Calabasas
- City of Westlake Village
- City of Simi Valley
- City of Agoura Hills

The draft 2020 UWMP has been completed and reviewed by staff, and a draft was made available for public review on April 12, 2021, on the District's website:

<https://www.lvmwd.com/your-water/urban-water-management-plan/>

A notice of public hearing was published in the *Las Virgenes-Calabasas Enterprise* on May 13 and 20, 2021.

A public hearing to receive stakeholder comments and consider adoption of the 2020 UWMP is required and proposed at the June 1, 2021 Board meeting. The date and time of the hearing were announced through multiple advertisements and on the District's website pursuant to Water Code Section 10642 and Government Code Section 6066. The public hearing has been scheduled to allow sufficient time for public review and comment on the draft UWMP and WSCP, while also providing for ample time to incorporate any comments prior to submission of the final draft by the July 1, 2021 deadline.

No comments on the 2020 UWMP have been received to-date. Staff will provide the Board with any comments that are received after completion of this report. Absent any substantive comments during the public hearing, staff recommends that the Board adopt the 2020 UWMP and WSCP.

2020 UWMP and WSCP Summary:

The 2020 UWMP provides updated information on population growth and projections that affect future water supplies and demands. The projections are less than those contained in the 2015 UWMP and 2014 Potable Water Master Plan Update, primarily due to conservation efforts over the past five years.

Based on the 2020 UWMP, the District's actual 2020 consumption was 227 gallons per capita per day (GPCD), which is less than the 2020 water conservation target of 249 GPCD set by Senate Bill x7-7 (20% by 2020).

The District's 2020 UWMP provides a water supply and demand analysis for 25 years (five years more than required), through 2045, considering normal, single-dry and five consecutive dry water years. Based on the 2020 UWMP from Metropolitan Water District of Southern California and Stantec's analysis, the District has adequate water supplies to meet projected demands under all three scenarios.

Beginning with the 2020 UWMP update, the Water Shortage Contingency Plan is required to

be updated with the UWMP and will remain a stand-alone document once adopted. The WSCP is included as an appendix of the 2020 UWMP update.

GOALS:

Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

The UWMP and WSCP support the District to provide reliable water service for the next 25 years.

Prepared by: Oliver Slosser, P.E., Senior Engineer

ATTACHMENTS:

2020 Urban Water Management Plan and Water Shortage Contingency Plan
Proposed Resolution No. 2593

**2020 Urban Water
Management Plan for Las
Virgenes Municipal Water
District**

Public Draft

Prepared for:
Las Virgenes Municipal Water
District

Prepared by:
Stantec Consulting Services Inc.

April 7, 2021

2020 URBAN WATER MANAGEMENT PLAN FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

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2020 URBAN WATER MANAGEMENT PLAN FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

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2020 URBAN WATER MANAGEMENT PLAN FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

Abbreviations

AB	Assembly Bill
AC	Acre
Act	Urban Water Management Planning Act
AF	Acre Feet
AFY	Acre Feet per Year
AMI	Area Median Income
AMI/AMR	Advanced metering infrastructure / Automated Meter Reading
ARDWP	Annual Reports to the Drinking Water Program
AWWA	American Water Works Association
Bay-Delta	Sacramento-San Joaquin Bay-Delta
BDCP	Bay Delta Conservation Plan
BMP	Best Management Practices
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFS	Cubic Feet per Second
CII	Commercial, Institutional, and Industrial
CIMIS	California Irrigation Management Information System
CIS	Customer Interface System
CMWD	Calleguas Municipal Water District
CRA	Colorado River Aqueduct
CUWCC	California Urban Water Conservation Council
CVP	Central Valley Project
CWC or Water Code	California Water Code
CY	Calendar Year
DDW	Division of Drinking Water
Delta	San Joaquin River Delta
DMM	Demand Management Measure
DRA	Drought Risk Assessment
DU	Dwelling Unit
DWR	Department of Water Resources
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EPM	Emergency Procedures Manual
ERP	Emergency Response Plan
ESA	Endangered Species Act
ET	Evapotranspiration
Eto	Evapotranspiration from a Standardized Grass Surface
FCGMA	Fox Canyon Groundwater Management Agency
FY	Fiscal Year
GIS	Geographic Information System
Gpcd	Gallons Per Capita Per Day
GPM	Gallons Per Minute

2020 URBAN WATER MANAGEMENT PLAN FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
HCD	Housing and Community Development
ICS	Intentionally Created Surplus
IRP	Integrated Resources Plan
IWSMP	Integrated Water System Master Plan
LAS	Lower Aquifer System
LV	Las Virgenes
LVMWD or District	Las Virgenes Municipal Water District
MAF	Million Acre Feet
MGD	Million Gallons per Day
Mg/L	Milligrams per Liter
MOU	Memorandum of Understanding
MWEL0	Model Water Efficient Landscape Ordinance
MWD	Metropolitan Water District of Southern California
PWS	Public Water System
RHNA	Regional Housing Needs Allocation
RUWMP	Regional Urban Water Management Plan
RW	Recycled Water
SB	California Senate Bill
SCAG	Southern California Association of Governments
SGMA	Sustainable Groundwater Management Act
SMP	Salinity Management Pipeline
Supplier	Urban Water Supplier
SWP	State Water Project
SWRCB	State Water Resources Control Board
TAF	Thousand Acre Feet
TDS	Total Dissolved Solids
TEA	Temporary Extraction Allocation
TMDL	Total Maximum Daily Load
TWRF	Tapia Water Reclamation Facility
TWSD	Triunfo Water and Sanitation District
UAS	Upper Aquifer System
USBR	U.S. Bureau of Reclamation
UWMP	Urban Water Management Plan
VCWWD	Ventura County Waterworks District
WFP	Westlake Filtration Plant
WQCP	Water Quality Control Plan
WSA	Water Service Area
WSAP	Water Supply Allocation Plan
WSCP	Water Shortage Contingency Plan
WSDM	Water Surplus and Drought Management

2020 URBAN WATER MANAGEMENT PLAN FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

Chapter 1: UWMP Introduction and Lay Description

1.1 Background and Purpose

This document presents the 2020 Urban Water Management Plan (UWMP) for the Las Virgenes Municipal Water District (LVMWD or District) to fulfill the requirements of the California Urban Water Management Planning Act (Act) and the Water Conservation Bill of 2009.

An UWMP is a planning tool that guides the actions of water management agencies. It provides managers and the public with a broad perspective on several water supply issues. It is not a substitute for project-specific planning documents, nor was it intended to be when mandated by the State Legislature. For example, the Legislature mandated that a plan include a Section which “describes the opportunities for exchanges or water transfers on a short-term or long-term basis.” (California Urban Water Management Planning Act, Article 2, Section 10630(d).) The identification of such opportunities, and the inclusion of those opportunities in a general water service reliability analysis, neither commits a water management agency to pursue a particular water exchange/transfer opportunity, nor precludes a water management agency from exploring exchange/transfer opportunities not identified in the UWMP. When specific projects are chosen to be implemented, detailed project plans are developed, environmental analysis, if required, is prepared, and financial and operational plans are detailed.

The purpose of this 2020 UWMP is to provide LVMWD, its partner agencies, and the public with an updated status and long-term water resources plan, including:

- Water deliveries and uses
- Water supply sources
- Efficient water uses
- Demand management measures
- Water shortage contingency planning

This UWMP was prepared in compliance with the Water Conservation Act of 2009, also known as Senate Bill X7-7 (SB X7-7), and under the authorization of LVMWD.

Notification letters sent to agencies are provided in Appendix A.

Public notice for the 2020 UWMP public hearing is provided in Appendix B.

The Adoption Resolution passed by the LVMWD Board of Directors on [intentionally left blank] 2021 is provided in Appendix C.

A checklist to ensure compliance of this Plan with the Act requirements is provided in Appendix D.

1.2 UWMP Update and the California Water Code

This UWMP has been prepared in compliance with California Water Code (CWC or Water Code) Sections 10610 through 10656 and Section 10608 of the Act, which were added by Statute 1983, Chapter 1009, and became effective on January 1, 1984. This Act requires that “every urban water supplier shall prepare and adopt an urban water management plan” (Water Code § 10620(a)). An “urban water

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supplier” is defined as a supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually (Water Code § 10617).

UWMPs must be filed with the California Department of Water Resources (DWR) every five years. The 2020 UWMP’s must be submitted to DWR by July 1, 2021. The focus of UWMPs include:

- Examining in detail current and future water use
- Analyzing potable and non-potable water supplies
- Analyzing water supply reliability
- Preparing a Drought Risk Assessment
- Developing a Water Shortage Contingency Plan

For 2020, the plans will also:

- Report progress toward meeting the targeted 20 percent reduction in per-capita (per-person) urban water consumption by the year 2020 set by the 2010 UWMP (which required retail water suppliers to develop baseline daily per capita water use, a minimum baseline daily per capita water use, and target daily per capita water use for 2015 and 2020), and
- Discuss the use and planned use of recycled water

1.2.1 Changes in the Act Since 2015

Since 2015, several amendments have been made to the Act. The following is a summary of the significant changes in the Act that have occurred since the 2015 UWMP:

- Drought Risk Assessment and the Five Consecutive Dry-Year Water Reliability Assessment: to examine water supply reliability for five consecutive dry years (modified from a “multiyear” time period used in dry-year water reliability planning), suppliers are now required to project water supply reliability over a period from 2021 to 2025
- Seismic Risk Analysis: suppliers are now required to address the seismic risk to their water system facilities with an analysis of the risk as well as a mitigation plan should an event occur.
- Energy Use Information: suppliers are now required to include readily obtainable information on estimated amounts of energy for water system.
- Water Loss Reporting for Five Years: suppliers are required to include the past five years of water loss audit reports.
- Water Shortage Contingency Plan (WSCP): includes new prescriptive elements to enhance previous requirements of WSCPs.
- Consistency with Groundwater Sustainability Plans: suppliers are now required to be consistent with Groundwater Sustainability Plans completed by relevant Groundwater Sustainability Agencies.
- Lay Description: suppliers are now required to include a lay description of the UWMP’s conclusions regarding water service reliability, challenges ahead and strategies for managing reliability risks.

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- Water Use Efficiency and Conservation: LVMWD must demonstrate actual water use, as compared to the previously established 2020 target.

1.2.2 Senate Bill 7 of the Seventh Extraordinary Session of 2009, Water Conservation in the Delta Legislative Package

On November 10, 2009, the California State Legislature passed Senate Bill 7 as part of the Seventh Extraordinary Session, referred to as SB X7-7, which became effective February 3, 2010. This law was the water conservation component to the historic Bay-Delta legislative package and seeks to achieve a 20% statewide reduction in urban, per capita water use in California by December 31, 2020. The law requires each urban retail water supplier to develop urban water use targets to help meet the 20% goal by 2020, and an interim urban water reduction target by 2015. The law is intended to promote urban water conservation standards consistent with the California Urban Water Conservation Council's adopted best management practices. Chapter 5 of this UWMP presents progress made toward the goals set in the previous plan.

1.3 Lay Description

LVMWD's 2020 UWMP has been prepared in compliance with the CWC as noted previously. Per CWC Section 10630.5, the UWMP must include a lay description to include the fundamental determination of the UWMP. This plan provides a detailed look at LVMWD's water system current and future water use, water sources, demand management measures, evaluation of multiple consecutive drought years, as part of the Drought Risk Assessment, and the preparation of a Water Shortage Contingency Plan (WSCP).

1.3.1 LVMWD's Water System, Supply, and Demand

LVMWD's water comes from four sources: imported water, recycled water, groundwater, and surface water runoff (into the Las Virgenes Reservoir). The imported potable water comes from Metropolitan Water District and Ventura County Waterworks District's (VCWWD No. 17), (VCWWD No. 8), as well as from the City of Los Angeles. The Tapia Water Reclamation Facility produces the recycled water, and groundwater is pulled from the Thousand Oaks Area Basin (which is then used to supplement the recycled water systems).

The District has two (2) separate water systems: one for potable water to serve potable retail customers, and one for recycled water to serve irrigation customers. Figure 6-1 in Chapter 6 shows a schematic of water supplies to each system. LVMWD's potable water distribution system includes 25 storage tanks, 24 pump stations, and nearly 400 miles of pipelines. LVMWD's recycled water distribution system consists of 62 miles of pipelines, 3 storage tanks, 3 open reservoirs, and 4 pump stations.

To help meet future demands, the District has recently completed several projects and has multiple projects in design, most notably its Pure Water Project, which will treat excess tertiary recycled water until it reaches drinking water standards.

Over the next twenty-five years, the District is predicted to meet all water user demands. The LVMWD water users are single and multi-family residential, commercial, and landscape users, as well as a mix of temporary users and supplemental water to the recycled water systems. For more details on LVMWD's water system, supply, and demand, see Chapters 3-6.

1.3.2 Water Service Reliability and SBx7-7 2020 Target

Per Senate Bill x7-7 (SBx7-7), the 2010 UWMP required retail water suppliers to develop baseline daily per capita water use, a minimum baseline daily per capita water use, and target daily per capita water use

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for 2015 and 2020. The District met their 2020 target (which was to not exceed 249 gpcd of water usage) with an actual 2020 usage of 227 gpcd. See Chapter 5 for more details.

It is the stated goal of LVMWD to deliver a reliable and high-quality water supply to its customers, even during dry periods. Based on conservative water supply and demand assumptions over the next twenty-five years, in combination with conservation of non-essential demand during certain dry years, LVMWD is projected to achieve its goal. The basis of the water supply and demand assessment is summarized in Chapter 7.

1.3.3 Water Shortage Contingency Plan

As part of its UWMP, Water Code Section 10632 requires Suppliers to prepare and adopt a Water Shortage Contingency Plan (WSCP). The WSCP draws upon lessons learned from the 2012-2016 drought, California's driest period on record. Chapter 8 provides a summary of the WSCP and the detailed WSCP is included in Appendix H.

1.3.4 Demand Management Measures

Chapter 9 describes LVMWD's demand management measures: 1) metering, 2) public education and outreach, and 3) water conservation program coordination and staffing support. The District ensures and provides support for all efforts of water conservation through education and outreach.

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Chapter 2: Plan Preparation

2.1 Plan Preparation

This chapter provides insight on how the 2020 UWMP was developed, including the basis for preparing the plan, units of measurement, calculations used, coordination with other agencies, and outreach efforts.

2.2 Basis for Preparing a Plan

Urban water suppliers with 3,000 or more service connections or supplying more than 3,000 acre-feet of water per year (AFY) are required to prepare an UWMP every five years in compliance with the Water Code 10617. LVMWD has prepared this UWMP as it directly provides water for municipal purposes to over 3,000 customers and supplies more than 3,000 AF of water annually.

LVMWD prepared and adopted UWMPs for the years 2005, 2010, and 2015. This UWMP serves as an update to the 2015 UWMP and was prepared as an individual UWMP, covering only the LVMWD service area shown in Figure 3-1 (more details on the LVMWD service area are provided in Chapter 3).

To assist LVMWD staff in preparation of their 2020 UWMP, Stantec attended the 2020 UWMP Workshop on the 10th of February 2021 for “Preparation, Adoption and Submittal” that was facilitated by DWR.

2.2.1 Public Water Systems

Public water systems (PWS) are systems that provide drinking water for human consumption and these systems are regulated by the State Water Resources Control Board (SWRCB), Division of Drinking Water (DDW). The SWRCB, Division of Drinking Water, requires reporting on the PWS. Reporters file electronic Annual Reports to the Drinking Water Program (ARDWP) to the SWRCB, which include annual reports of water usage and other information. The information provided in the UWMP is consistent with the data reported in the ARDWP.

LVMWD is a public water supplier that meets the definition of an urban water supplier with 19,944 municipal water service connections (as of the end of fiscal year 2020) and a total 18,242 acre-feet (AF) of water supplied to customers in their water service area in calendar year 2020. See Table 2-1 for a summary of the Public Water System Data for LVMWD.

Submittal Table 2-1 Retail Only: Public Water Systems			
Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020 *
<i>Add additional rows as needed</i>			
1910225	LVMWD	20,004*	18,242
TOTAL		20,004	18,242

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*** Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES: *Number of potable municipal connections is taken from Fiscal Year 2020, whereas volume of water supplied is from Calendar Year 2020 per the current UWMP's standards

2.3 Regional Planning

The 2020 UWMP for LVMWD has been prepared as an individual reporting plan that only covers the service area of LVMWD.

2.4 Individual or Regional Planning and Compliance

This document was prepared as an individual UWMP and addresses all the requirements of the CWC. Coordination of this UWMP with other agencies and constituents is described in **Section 2.6**. LVMWD is not a member of a Regional UWMP, nor is it a member of a Regional Alliance. See **Table 2-2** for Plan Identification.

Submittal Table 2-2: Plan Identification		
Select Only One	Type of Plan	Name of RUWMP or Regional Alliance <i>if applicable</i> (select from drop down list)
<input checked="" type="checkbox"/>	Individual UWMP	
<input type="checkbox"/>	Water Supplier is also a member of a RUWMP	
<input type="checkbox"/>	Water Supplier is also a member of a Regional Alliance	
<input type="checkbox"/>	Regional Urban Water Management Plan (RUWMP)	

2.5 Fiscal or Calendar Year and Units of Measure

A water supplier may report on a fiscal year or calendar year basis but must clearly state in its UWMP the type of year that is used for reporting. This section delineates the year in which all data is set, as well as the units of measure to be carried through the entirety of the plan. LVMWD is a water retailer (as opposed to a water wholesaler).

2.5.1 Fiscal or Calendar Year

The 2020 UWMP for the LVMWD is prepared on a calendar year basis.

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2.5.2 Reporting Complete 2020 Data

This 2020 UWMP includes complete water use and planning data for calendar year 2020.

2.5.3 Units of Measure

Volumes reported in this UWMP are in acre-feet (AF) and are consistent throughout the plan. **Table 2-3** shows the parameters under which the 2020 UWMP was prepared.

Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
<input type="checkbox"/>	Supplier is a wholesaler
<input checked="" type="checkbox"/>	Supplier is a retailer
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables are in calendar years
<input type="checkbox"/>	UWMP Tables are in fiscal years
If using fiscal years provide month and date that the fiscal year begins (mm/dd)	
Units of measure used in UWMP * (select from drop down)	
Unit	AF
<i>* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>	

2.6 Coordination and Outreach

The UWMP Act requires that the water agency identify its coordination with appropriate nearby agencies. While preparing the 2020 UWMP, LVMWD coordinated its efforts with relevant agencies to ensure that the data and issues discussed in the UWMP are presented accurately. All agencies listed in Section 2.6 were sent a notice of preparation, copies of which are included in Appendix A.

LVMWD has actively encouraged community participation in its Urban Water Management Planning efforts. A notice of public hearing was published in the local newspaper on [intentionally left blank] 2021, notifying interested parties that the draft 2020 UWMP was under preparation. City and County agencies were notified on [intentionally left blank] 2021, more than 60 days prior to the public hearing. Copies of the public hearing notification, which include the time and place of the public hearing, are included in Appendix B.

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The Draft 2020 UWMP was presented to the LVMWD Board of Directors on [intentionally left blank] 2021 in a public hearing. The hearing provided an opportunity for LVMWD’s customers, residents, and employees to learn and ask questions about the current and future water supply. The Final Draft 2020 UWMP was presented to the LVMWD Board of Directors and subsequently adopted by resolution of the Board on [intentionally left blank] 2021. A copy of the resolution of the intent to adopt and the adoption resolution are included in Appendix C.

The adopted 2020 UWMP will be submitted to:

- The California Department of Water Resources
- The California State Library

In addition, the UWMP will be posted to the LVMWD website and will be made available during normal business hours at LVMWD, located at: 4232 Las Virgenes Road, Calabasas, CA 91302.

2.6.1 Wholesale and Retail Coordination

Among other coordination activities, LVMWD also informed the Metropolitan Water District of Southern California (MWD) of projected water use. See Table 2-4 for Water Supplier Information Exchange.

Submittal Table 2-4 Retail: Water Supplier Information Exchange
The retail Supplier has informed the following wholesale supplier(s) of projected water use in accordance with Water Code Section 10631.
Wholesale Water Supplier Name
<i>Add additional rows as needed</i>
Metropolitan Water District of Southern California (MWD)

2.6.2 Coordination with Other Agencies and the Community

A written notice of this update to the LVMWD UWMP was provided to the following agencies:

- Calleguas Municipal Water District
- Triunfo Water and Sanitation District
- The Metropolitan Water District of Southern California

Table 2-A summarizes the coordination and public involvement actions of each agency listed above.

2.6.3 Notice to Cities and Counties

A written notice of this update to the LVMWD UWMP was provided to the following cities and counties:

- The City of Agoura Hills
- The City of Calabasas
- The City of Hidden Hills

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- The City of Malibu
- The City of Simi Valley Waterworks District No. 8
- The City of Westlake Village
- The County of Los Angeles
- The County of Los Angeles Regional Planning Department
- The County of Ventura Public Works Department (Ventura County Waterworks District No. 1)

Table 2-A summarizes the coordination and public involvement actions of each city and county listed above.

Table 2-A: LVMWD Coordination and Notification for Plan Preparation						
Entities	Coordination and Public Involvement Actions					
	Received Copy of Draft UWMP	Commented on Draft UWMP	Attended Public Meetings	Contacted for Assistance	Was Sent Notice of Intent to Adopt	Not Involved
Metropolitan Water District of Southern California	Yes					
Calleguas Municipal Water District	Yes					
City of Calabasas	Yes Yes					
City of Hidden Hills	Yes					
City of Agoura Hills	Yes					
City of Westlake Village	Yes					
City of Malibu	Yes					
The City of Simi Valley Waterworks District No. 8	Yes					
Triunfo Sanitation District	Yes					
Los Angeles County	Yes					
Ventura County Waterworks District No. 1	Yes					

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Chapter 3: System Description

3.1 General Description

The LVMWD service area comprises a 122-square mile area (74,640 acres) in western Los Angeles County, including the Los Angeles/Ventura County boundary to the northwest and the City of Los Angeles to the east. As shown in Figure 3-1, the service area includes the incorporated cities of Agoura Hills, Calabasas, Hidden Hills, and Westlake Village as well as unincorporated portions of Los Angeles County.

3.1.1 Water System Description

Located in the Santa Monica Mountains, Conejo Valley, and San Fernando Valley, LVMWD has very limited natural water resources and currently relies on four sources: imported potable water from MWD and Ventura County Waterworks District (VCWWD); recycled water from the Tapia Water Reclamation Facility (TWRP); and, to a lesser extent, groundwater from the Thousand Oaks Area Basin (which is only used to supplement the TWRP effluent), and surface runoff into the Las Virgenes Reservoir. LVMWD's potable water distribution system includes 25 storage tanks, 24 pump stations, and nearly 400 miles of pipelines. LVMWD maintains 22 main pressure zones due to the mountainous topography of its service area. For billing purposes, the pressure zones are categorized into five pumping zone levels based on hydraulic grade line (HGL). LVMWD's recycled water distribution system consists of 62 miles of pipelines, 3 storage tanks, 3 open reservoirs, and 4 pump stations.

3.1.2 Recently Completed Projects

Las Virgenes Municipal Water District is consistently working on new projects that will enhance their systems for their customers. There are several projects the District has recently completed, most notably:

- The Pure Water Demonstration Project
- The Mega Watt Solar Field
- Construction of aeration basin and blower equipment improvements at Tapia Water Reclamation Facility, reducing electricity use at the facility by an estimated 25 percent¹
- 2,000 Weather Based Irrigation Controllers resulting in 141 acre-feet per year in reduced water use¹
- The Las Virgenes (LV) Tap campaign to promote drinking of tap water in lieu of plastic bottled water¹
- The AMR/AMI Smart Meter system¹
- The Customer Interface System (CIS) software to version 4 and enhanced practices for billing and collections¹
- The Torchwood Tank (2015), which added 5 million gallons of storage capacity

¹ LVMWD Adopted 2-Year Budget for Fiscal Years 2020-2022

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- The Westlake Water Filtration Expansion and Westlake Pump Station Upgrade Project, which was completed in 2017 and increased the filtration capacity from 15 MGD to 18 MGD
- Rancho Las Virgenes Digester Cleaning and Repair
- Water Information Management Solution Software Implementation
- Rancho Amendment Bin and Conveyance Modification Project
- Potable Water Rehabilitation from FY 17-18
- Rehabilitation of 18" Recycled Water Pipe (Tapia/Mulholland Highway)
- Tapia Sluice Gate and Drive Replacement
- Saddletree Tank Improvements
- Centrate Equalization Tank
- Agoura Road Recycled Water Main Extension

3.1.3 Facilities in Construction

In addition to projects recently completed, below are a list of all facilities in construction at the time of the plan:

- Interconnection with CMWD
- Saddle Peak Tank Rehabilitation Project (potable water)
- Cordillera Tank Rehabilitation Project (recycled water)
- Mulholland Hwy Water Main over Triunfo Creek replacement project

3.1.4 Projects in Design

In order to ensure the District continues to provide reliable, quality water to its customers, LVMWD has several projects planned for future developments, including the projects in design listed below:

- Pure Water Project to treat excess tertiary recycled water (water normally disposed of during months of low recycled water demand) through further advance water treatment methods to reach drinking water standards
- Interconnection with Wastewater District No. 29
- Twin Lakes Pumping Upgrades
- Cornell Pump Station Upgrades to improve operational flexibility for planned shutdowns and help maximize interconnection use
- Tapia Total Maximum Daily Load (TMDL) Compliance Project

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3.2 Service Area Boundary Maps

LVMWD's District boundary is shown in Figure 3-1.

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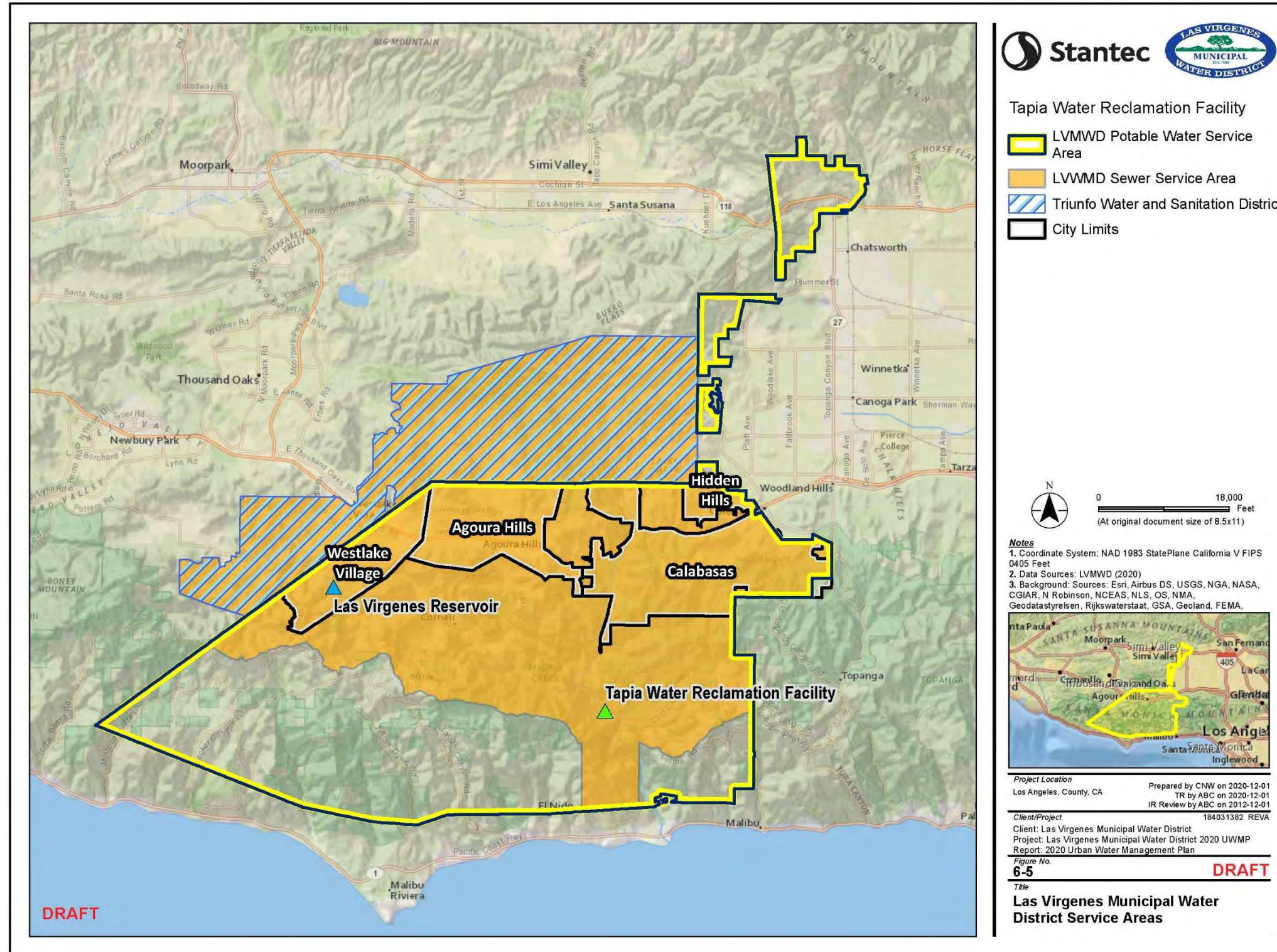


Figure 3-1: LVMWD Service Area

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3.3 Service Area Climate

3.3.1 Service Area Climate

The majority of LVMWD's service area climate is a semi-arid environment with mild winters, warm summers and moderate rainfall, consistent with coastal Southern California. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific. As a result, the climate is mild and tempered by cool sea breezes. The usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or dry hot Santa Ana winds. The standard monthly average evapotranspiration (ETo) rates, rainfall, and temperature are summarized in Table 3-A.

From April 2020 to March 2021, LVMWD's average monthly temperature ranges from about 43.5 to 85.4 degrees Fahrenheit (°F), with an annual average temperature of 64°F. ETo averages a total of 54.8 inches per year, while the average annual rainfall is 0.59 inches. Records for the twelve-month timeframe show that the monthly total precipitation has been as high as 2.4 inches and as low as 0.0 inches. Most of the rainfall typically occurs November through April.

Submittal Table 3-A: LVMWD - Climate Characteristics													
	Jan.	Feb.	Mar	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Avg. or Total
Avg. Max Temp. (°F)	68.7	69.0	67.1	70.8	76.2	77.0	80.9	85.1	85.4	81.8	72.7	70.4	75.4 (avg)
Avg. Min. Temp. (°F)	46.5	45.6	43.5	51.6	54.0	57.6	57.8	61.5	58.5	56.7	46.9	45.7	52.2 (avg)
Total Monthly Precipitation (in)	1.62	0.30	1.22	1.44	0.17	0.08	0.23	0	0	0	0.22	1.83	0.59 (avg)
Standard Monthly ETo (in)	2.98	3.51	4.36	4.47	6.41	5.86	6.88	6.27	4.79	3.83	2.73	2.70	54.8 (total)

Sources:

Santa Monica – Los Angeles Basin (Station 99), Camarillo – Central Coast Valley (Station 152), West hills – Los Angeles Basin (Station 219), Period of record 04/2020 – 03/2021
<https://cimis.water.ca.gov/Default.aspx>

3.4 Service Area Population and Demographics

3.4.1 Service Area Population

3.4.1.1 Development Projections

The 2014 Potable Water Master Plan contains development projections, considering land use and planning data, local agency Housing Element reports, and vacant housing information. That analysis was updated with most recent Housing Element reports in 2015, and no further data is publicly available at the time of this 2020 UWMP. Therefore, the table below shows a prorated estimate of projected additional population from 2020 until the 2040 buildout (for purposes of this 2020 UWMP and in contrast to the 2014 Master Plan, build-out is projected to occur by 2040).

In 2015, a total of 5,254 new dwelling units were anticipated by build-out, which estimated an additional population at 16,378. In 2020, the population is anticipated to grow by 12,542 by 2040. All agencies listed below were contacted and requested to provide all updated housing elements projections. At the time of

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this 2020 UWMP, a response was received from the City of Calabasas with updated values. All other agency values are therefore prorated from the 2015 UMWP housing projections. These projections are summarized in Table 3-B.

Table 3-B: Housing and Population Projections from 2020 to 2040

Agency/Growth Description	Projected New Dwelling Units	Applicable Persons per Household (PPH)	Projected Additional Population
Agoura Hills ^{(a)(b)}			
Agoura Village	293	3.345	980
N. Agoura Rd	73	3.345	244
Calabasas^(c)			
West Village	180	2.71	488
Pet Kennel Site	60	2.71	163
Raznick Project	42	2.71	114
Cruzan Site	68	2.71	184
Mixed Use Site #1 (T.B.D.)	100	2.71	271
Mixed Use Site #2 (T.B.D.)	100	2.71	271
Repurposed Office Building (T.B.D.)	50	2.71	136
Infill Site (T. B. D.)	75	2.71	203
Other Vacant Residential Sites	70	2.71	190
Other Underutilized or Repurposed Site	110	2.71	298
Accessory Dwelling Units	122	2.0	244
Hidden Hills^{(a)(d)}			
Vacant Land	32	3.23	103
Affordable Housing	17	3.23	55
Second Units	2	3.23	6
Westlake Village^{(a) (e)}			
Westlake Village Business	401	3.01	1,207
Additional Potential Residential	8	3.01	24
Additional Units^{(a) (f)}			
Additional Population from Land			
Use Calculations (Unincorporated LA County) ^(b)	2,746	3.15	8,650

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Additional Population from Vacant units ^(b)	936	3.03	2,836
Total Additional Population from New Development (Projected in 2020)	5,485	n/a	16,667
Total Population at Buildout ^(g)			89,269

Notes:

Source: Adapted from Potable Water Master Plan Update 2014 and 2015 Urban Water Management Plan

(a) PPH from 2014 Master Plan

(b) Based on assessment from Potable Water Master Plan Update 2014 (Kennedy/Jenks Consultants 2014b), Table 2-2 and Appendix O.

(c) City of Calabasas staff 2021

(d) City of Hidden Hills 2013-2021 Housing Element, 2014, confirmed by staff 2021

(e) City of Westlake Village 2013-2021 Housing Element, 2014; Table 4

(f) Based on assessment from Potable Water Master Plan Update 2014 (Kennedy/Jenks Consultants 2014b), Table 2-2

(g) Total population from development (2040) taking into account 2020 and additional population from new development.

3.4.1.2 Service Area Population

The population for LVMWD in 2020 is required to be calculated using the DWR online population tool, which uses a Geographic Information System (GIS) interface. By adding shape files for the LVMWD service area boundaries, population is derived using U.S. Census Bureau census tract data from historical census years and combined with persons per connection data.

Based on 2020 population data and additional population from new development, which is assumed to occur in 2040, future population was calculated for all intervening years through the end of the planning period. See Table 3-1 for the current and projected population. As can be seen, it is anticipated that LVMWD's service area population will increase to approximately 94,392 by 2045.

Submittal Table 3-1 Retail: Population - Current and Projected						
Population Served	2020	2025	2030	2035	2040	2045(opt)
	72,602	76,769	81,175	85,833	89,269	94,392
NOTES:						

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3.4.2 Other Social, Economic, and Demographic Factors

Most of LVMWD's service population includes the incorporated cities of Agoura Hills, Calabasas, Hidden Hills, and Westlake Village as well as unincorporated portions of Los Angeles County. Current and future demographics, housing development, and land use in the cities will have significant impact on water use and system planning for LVMWD.

Though LVMWD has no disadvantaged census group, it is a common destination for disadvantaged community members who come to enjoy the visitor facilities. Safe, clean water is necessary to support these recreational experiences. LVMWD is committed to support programs that ensure resources are available to serve the region's disadvantaged communities.

3.5 Land Uses within Service Area

A large portion of the service area is undeveloped land characterized by the Santa Monica Mountains that range in elevation from a few feet above mean sea level (msl) to elevations exceeding 2,500 ft-msl. These open space areas comprise about 35 to 40 percent of the total service area and are mostly held in public ownership, such as state and national parks that will not require water service. Because of this, there is a limited amount of development planned for the future despite the significant amount of open land available.

There are also many undeveloped private parcels, particularly in the southern half of the service area. While these parcels are difficult to develop due to the topography of the land, they are accounted for in long-range water planning as these parcels could potentially receive water from LVMWD in the future². The remaining portion is primarily made up of mixed residential and commercial land uses, while only a small portion of the service area is designated as agricultural land use types. The development pattern in recent years within the service area has been predominately commercial/office along the freeway corridor with some modest residential development and growth. LVMWD's water demands are primarily residential, as opposed to commercial, industrial, institutional, or agricultural, so LVMWD's customer base consists of many small users (i.e., single family residential homes) with associated landscape irrigation.

3.5.1 Service Area Geography

There are several unique aspects of LVMWD's geography which must be considered when discussing regional water infrastructure. Secondly, because of LVMWD's rural location within the Santa Monica Mountains, the distribution systems are large and must accommodate geographical challenges such as rapidly changing elevations. And while LVMWD benefits from a highly integrated recycled water system, effective potable distribution has been an ongoing challenge.

² Potable Water Master Plan Update 2014, Kennedy Jenks

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Chapter 4: Water Use Characterization

This chapter describes and quantifies LVMWD's past, current, and future potable and non-potable water use projections through at least the year 2045 and are summarized in Table 4-3. Available records are used to project future water use based upon LVMWD's historical records and considering anticipated growth, new regulations, changing climate conditions, and trends in customer water use behaviors. Examining each water use sector, and then aggregating the information into a comprehensive projection of customer water use, becomes the foundation for integration with LVMWD's water supplies (Chapter 6) to assess long-term water system reliability (Chapter 7).

4.1 Non-Potable Versus Potable Water Use

LVMWD relies primarily on four sources for potable and non-potable water supplies including:

- Potable water imported from MWD and VCWWD
- Surface runoff into the Las Virgenes Reservoir
- Non-potable groundwater from the Thousand Oaks Area Basin
- Title 22 recycled water from the Tapia Water Reclamation Facility (TWRP)

Potable water is primarily supplied by wholesale purchases from MWD, currently only receiving SWP imported water. Prior to delivery to LVMWD, SWP water is treated at the Jensen Filtration Plant in Granada Hills, California. LVMWD has three MWD connections with a total capacity of 33,000 gpm (73 cfs). LVMWD also has access to two LADWP interconnections during MWD outages, enabled through an agreement between MWD and LADWP, with a total capacity of 10,350 gpm (Kittridge has a 9,000gpm capacity, and Germain has a 1,350 gpm capacity). LVMWD also imports potable water from two additional interconnections supplied by the City of Simi Valley/Ventura County Waterworks District 8 and Ventura County Waterworks District 17. In 2020, LVMWD supplied a total of 20,817 AF from imported potable water, about 78 percent of the total water supply including recycled water.

Another supply source for LVMWD is groundwater from two wells, Westlake Wells 1 and 2, extracted from the Thousand Oaks Area Groundwater Basin. Groundwater supplies are reported as non-potable water in this UWMP as these supplies are solely used to supplement the recycled water systems as the groundwater quality is poor. In 2020, LVMWD supplied about 299 AF of groundwater for non-potable use, about 1 percent of the total water supply.

In addition, treated wastewater from TWRP is used for non-potable purposes. TWRP provides primary, secondary, and tertiary treatment for LVMWD wastewater, Triunfo Water and Sanitation District (TWSD) wastewater, and any supplemental water including groundwater. TWRP, owned by the Joint Powers Authority (JPA) of LVMWD and TWSD, treats up to 10 mgd of wastewater for the recycled water distribution system. As of 2020, the treatment capacity of TWRP is about 16 mgd. TWRP average daily flows are relatively constant but do have some seasonal variation. In 2020, about 5,892 AF of wastewater was recycled in the LVMWD service area (despite a larger volume treated by TWRP) for non-potable use, about 22 percent of the total water supply. The remaining volume was disposed of.

4.2 Past, Current, and Projected Water Use by Sector

This section discusses past, current, and projected water use in five-year increments through 2045. The water uses shall be identified by sector and based upon information provided by LVMWD.

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4.2.1 Water Use Sectors Listed in Water Code

To characterize LVMWD's water use customers, the following sections define the water sectors listed in the CWC 10631(d). The order of the sectors follows the order found in the Water Code. If a sector is not applicable or no information is available, it will be indicated as such in the respective sector and shall be excluded from the analyses. Additional sectors or subdivisions of these sectors shall be included in Section 4.2.2 to allow the analysis of unique conditions that may apply to certain sectors or subsectors not listed in the Water Code.

4.2.1.1 Single-Family Residential

A single-family dwelling unit. A lot with a free-standing building containing one dwelling unit that may include a detached secondary dwelling.

4.2.1.2 Multi-Family Residential

Multiple dwelling units contained within one building or several buildings within one complex.

4.2.1.3 Commercial

A water user that provides or distributes a product or service. Water Code 10608.12(d).

4.2.1.4 Landscape

Water connections supplying water solely for landscape irrigation. Such landscapes may be associated with multi-family, commercial, industrial, or institutional/governmental sites, but are considered a separate water use sector if the connection is solely for landscape irrigation.

4.2.1.5 Distribution System Losses

Reporting of distribution system losses is required by the Water Code. Per CWC §10631(d)(3), distribution system water losses for each of the five years preceding the plan update must be reported in accordance with the rules adopted pursuant to CWC §10608.34. These water losses are listed in Table 4-4 and all relevant AWWA reporting worksheets can be found in Appendix E.

Projected water losses, reported in five-year increments for 25 years, are included to effectively evaluate water service reliability. It is one of the water use sectors that requires reporting per Water Code Section 10631(d)(1). Projected water losses are summarized in Section 4.2.6.

4.2.2 Water Use Sectors in Addition to Those Listed in Water Code

4.2.2.1 Other

Potable Supplement to Recycled Water systems

Potable supplement water includes any potable water used to supplement the recycled water systems.

Construction and Fire Services

Construction services include water uses such as dust suppression, washing equipment, and other uses associated with construction activities. Water used for fire services include line flushing, firefighting, hydrant testing, and others.

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4.2.3 Past Water Use

While not part of the DWR submittal tables, Table 4-A below quantifies past water use for the LVMWD service area. Past water use accounting helps show LVMWD's water use trends; the effects of temporary use restrictions, and recovery from such temporary restrictions; effects of long-term demand management measures; and other pertinent water use patterns.

Table 4-A Retail: Use for Potable and Non-Potable Water - Historical					
Use Type <i>(Add additional rows as needed)</i>	Additional Description <i>(as needed)</i>	Historical Water Use <i>Report To the Extent that Records are Available</i>			
		2016	2017	2018	2019
Single Family		13,124	14,241	14,929	13,124
Multi-Family		1,141	1,209	1,203	1,164
Commercial		1,633	1,591	1,869	1,689
Landscape		523	615	642	620
Other ^(a)	Potable Supplement to Recycled Water systems	1,040	1,068	458	510
Other	Construction and Fire Services	78	174	145	77
TOTAL		17,426	18,897	19,809	17,185
NOTES: Does not include losses.					
(a) Numbers derived from "Groundwater_ColumnG" spreadsheet provided by LVMWD staff					

4.2.4 Distribution System Water Losses

Distribution system water losses are the physical potable water lost from the pressurized water distribution system and facilities up to the point of delivery to the customer. Water losses are calculated using the American Water Works Association Method (Title 23 California Code of Regulations [CCR] Section 638.1 et seq.).

Per CWC §10631(d)(3), distribution system water losses for each of the five years preceding the UWMP update must be reported in accordance with the rules adopted pursuant to CWC §10608.34. System water losses are reported in the Worksheets and Reporting Tables section, Table 4-4.

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Projected water losses, reported in five-year increments for at least 20 years, must also be included to effectively evaluate water service reliability, and it is one of the water use sectors that requires reporting per Water Code Section 10631(d)(1). Projected water losses through 2045 are shown in Table 4-2.

4.2.5 Current Water Use

Existing water service connections by customer sector are shown in Table 4-1. Residential (single-family plus multi-family) connections accounted for approximately 82 percent of total water service demands in 2020.

Submittal Table 4-1 Retail: Demands for Potable - Actual			
Use Type	2020 Actual		
Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool	Additional Description (as needed)	Level of Treatment When Delivered Drop down list	Volume*
Add additional rows as needed			
Single Family ^(a)		Drinking Water	14,718
Multi-Family ^(a)		Drinking Water	1,270
Commercial ^(a)		Drinking Water	1,483
Landscape ^(a)		Drinking Water	716
Losses ^(b)		Drinking Water	437
Other Potable ^{(c)(d)}	Potable Supplement to Recycled Water systems	Drinking Water	332
Other ^(a)	Temporary Uses, such as fire protection and construction	Drinking Water	55
TOTAL			19,011
* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.			
NOTES: (a) Numbers derived from "Potable Production" spreadsheet provided by LVMWD staff (b) Losses based on 2019 losses. 2020 loss numbers were not available at the time of report preparation. (c) Numbers derived from "Groundwater_ColumnG" spreadsheet provided by LVMWD staff (d) Recycled water demands are discussed in Chapter 6.			

4.2.6 Projected Water Use

In accordance with Water Code Section 10635(a), below (and in Chapter 7) includes an assessment of the reliability of LVMWD's water service to its customers during normal, dry, and multiple dry water years.

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This water supply and demand assessment compares the total water supply sources available to LVMWD with the long-term total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and a drought lasting five consecutive water years. See Chapter 7 for further details.

4.2.6.1 20-Year Planning Horizon

LVMWD’s projected water use, in five-year increments, is shown below through 2045 (including projections for each of the water use sectors identified in Section 4.2.1). The 2020 Potable Water, Recycled Water, and Sanitation Rate Study Report (2020 Rate Study) projected potable water and recycled water demands for the study period of Fiscal Year (FY) 2020 to FY2025. The Rate Study, while acknowledging the District is not fully built out, does not assume additional new customers or account growth over the next five years. For the purposes of a rate study, this is a conservative assumption and allows the District to plan for a worst-case scenario regarding revenue and growth. For the purposes of the UWMP, incremental growth due to new connections has been incorporated into the future projections in order to conservatively plan for any additional water demand in the service area. Though these assumptions differ, the assumed growth for each study is specific to the intent of that study and providing a conservative projection for the future. In addition, the overall anticipated growth for this UWMP update is relatively small in comparison to the existing demands for the District and the differing growth assumptions between the two studies is not seen as significantly in conflict. The Rate Study also assumes cutbacks in demands starting in FY2023. Cutback percentages are shown below in Table 4-B.

	2020	2021	2022	2023	2024	2025
Potable Water Demand Assumptions	0.0%	0.2%	0.0%	-2.6%	-2.2%	-2.3%
Recycled Water Demand Assumptions	0.0%	0.0%	0.0%	-2.8%	-2.5%	-2.2%

For the purposes of the 2020 UWMP and data available at the time of preparation, the projected potable water and recycled water demands are shown in Tables 4-2 and 4-3. The projections for the year 2025 differ from those projected in the 2020 Rate Study due to the different reporting periods (fiscal year vs. calendar year) and assumption of a small percentage of growth until buildout in 2040 as shown in Section 3. The 2020 Rate Study evaluated billed water only and does not include other sources of potable or non-potable water. The estimated cutback percentages shown in Table 4-B were applied to the potable water demands for the period of 2020 to 2025. Cutbacks were anticipated to level off after 2025 for the purpose of evaluating the estimated demands and supply in Section 6 and 7.

Use Type	Additional Description (as needed)	Projected Water Use* <i>Report To the Extent that Records are Available</i>				
		2025	2030	2035	2040	2045 (opt)
<u>Drop down list</u> May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool						

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Add additional rows as needed						
Single Family	(a)	14,542	15,377	16,259	17,192	18,179
Multi-Family	(a)	1,255	1,327	1,403	1,484	1,569
Commercial	(a)	1,465	1,549	1,638	1,732	1,832
Landscape	(a)	708	748	791	837	885
Losses	(a)	432	457	483	510	540
Other Potable	Potable Supplement to Recycled Water systems (b)	682	682	682	682	682
Other	Temporary Uses, such as fire protection and construction (c)	106	106	106	106	106
TOTAL		19,190	20,246	21,363	22,544	23,792
<p>* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</p>						
<p>NOTES: (a) Assumes demand cutbacks per Table 4-B. No cutbacks are projected 2030 and beyond in the estimated demands. (b) The Recycled Water Supplement values are derived from five-year averages of potable and non-potable water supplement, which are expected to continue at a steady amount through 2045 as no growth is expected of the recycled water system. See Section 6 for more details. (c) Average from 2016-2020.</p>						

Submittal Table 4-3 Retail: Total Water Use (Potable and Non-Potable)						
	2020	2025	2030	2035	2040	2045 (opt)
Potable Water, Raw, Other Non-potable <i>From Tables 4-1R and 4-2 R</i>	19,011	19,190	20,246	21,363	22,544	23,792
Recycled Water Demand ¹ <i>From Table 6-4</i>	5,560	3,995	3,995	3,995	3,995	3,995

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Optional Deduction of Recycled Water Put Into Long-Term Storage ²						
TOTAL WATER USE	24,571	23,185	24,241	25,358	26,539	27,787
¹ Recycled water demand fields will be blank until Table 6-4 is complete ² Long term storage means water placed into groundwater or surface storage that is not removed from storage in the same year. Supplier may deduct recycled water placed in long-term storage from their reported demand. This value is manually entered into Table 4-3.						
NOTES: Assumed 682 AF of recycled water is supplied by potable water for peak months when wastewater flows are lower than recycled water demands. This demand is included in the potable water demand projections for 2025.						

4.2.6.2 Water Year Types

For the water service reliability assessment, suppliers shall characterize the normal water use for estimating normal water supply reliability and reliability in the event of a single dry year. Suppliers may choose to characterize the normal year water use in whatever manner makes the best planning sense. Both normal year and single dry year data is reported in Chapter 7.

4.2.6.3 Codes and Other Considerations Used in Projections

The water use projections described above take into consideration LVMWD land use plans (see Chapter 3). LVMWD has a land-use build out set for 2040, so water use is expected to remain constant from 2040 on.

4.2.7 Characteristic Five-Year Water Use

Water Code Section 10635(b) is a new requirement for the 2020 UWMPs. A critical component of this new statutory language is the requirement to prepare a five-year drought risk assessment (DRA), discussed in Chapter 7. This five-year DRA can also be used to provide the water service reliability assessment for a drought lasting five years.

DWR recommends that, as a first step, suppliers estimate expected gross water use for the next five years without drought conditions (also known as unconstrained demand). These numbers can then be adjusted to estimate the five-years' cumulative drought effects, as summarized in Chapter 7.

4.3 Worksheets and Reporting Tables

The DWR Planning Tool Use Worksheet are used to record current and projected water use as described in Section 4.2. The tables are similar to those in the 2015 UWMP, with some modifications to reflect Water Code changes, the 2020 timeframe, and to provide additional flexibility. The tables relevant to customer water use are used throughout this report.

To date, LVMWD has not adopted a Water Loss Standard. See Table 4-4 for the last five years of water loss audit reporting of the LVMWD systems.

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Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting	
Reporting Period Start Date (mm/yyyy)	Volume of Water Loss ^{1,2}
01/2016 - 12/2016	1,233
01/2017 - 12/2017	48
01/2018 - 12/2018	545
01/2019 - 12/2019	437
01/2020 - 12/2020	-
<p>¹ Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet.</p> <p>² Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</p>	
<p>NOTES: The reporting year type changed from Fiscal Year to Calendar Year at the end of 2016. Loss numbers are calculated by subtracting Authorized Consumption from Water Supplied to the delivery system and are shown in the AWWA worksheets. Final numbers for 2020 water loss will not be available until after the UWMP is finalized.</p>	

4.4 Water Use for Lower Income Households

The projected water use for lower income households is shown below. A lower income household has an income below 80 percent of area median income, adjusted for family size.

The State Department of Housing and Community Development (HCD) categorizes households into five income groups based on the County Area Median Income (AMI) which can be used for planning and funding purposes. The five income groups include:

- Extremely Low-Income – up to 30% of AMI
- Very Low-Income – 31 to 50% of AMI
- Low-Income – 51 to 80% of AMI
- Moderate Income – 81 to 120% of AMI
- Above Moderate Income – greater than 120% of AMI

As required by State Housing Element law, jurisdictions shall provide sufficient land to accommodate a variety of housing opportunities for all economic segments of the community. The region's projected housing needs shall be accommodated for the planning period, known as the Regional Housing Needs Allocation (RHNA). To comply, jurisdictions shall provide adequate land with enough density and appropriate development standards. The Southern California Association of Governments (SCAG) allocates the RHNA to individual jurisdictions within the region.

The LVMWD service area includes the incorporated cities of Agoura Hills, Calabasas, Hidden Hills, and Westlake Village as well as approximately 5 percent of unincorporated areas within the County of Los Angeles. As such, RHNA data assigned by SCAG to these cities and unincorporated areas shall be used

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for this UWMP. RHNA units of the respective cities and areas for the 2020 to 2045 forecast, based on income distribution, are summarized in Table 4-C.

Table 4-C: 2020-2045 RHNA Assigned Units of Cities within LVMWD ¹							
Income Group	Number of Units						Percentage
	Agoura Hills	Calabasas	Hidden Hills	Westlake Village	Unincorporated LA County ²	Total	
Extremely/ Very Low	127	132	17	58	1,279	1,612	30%
Low	72	71	8	29	683	863	16%
Moderate	55	70	9	32	708	874	16%
Above Moderate	64	81	6	23	1,822	1,996	37%
Total	318	354	40	142	4,492	5,346	100%

¹ From document "SCAG 6th Cycle Final RHNA Allocation Plan (pending HCD approval) 3/4/21"

² Approximately 5 percent of unincorporated areas within Los Angeles County (LA County)

Extremely low-, very low-, and low-income households are often combined and referred to as lower-income households. The lower-income households total 2,475 units for the LVMWD service area. With an estimated 3.1 people per dwelling unit and a per capita water usage of 227 gpcd, if all 2,475 lower-income housing units are built by 2045 the water demand increase is estimated to be 1,950 AFY. This is accounted for in the prorated population estimates of Table 3-B. In accordance with Water Code Section 10631.1, Table 4-5 confirms and indicates how future water savings estimates and lower-income household demands are included in water use projections.

Submittal Table 4-5 Retail Only: Inclusion in Water Use Projections	
Are Future Water Savings Included in Projections? (Refer to Appendix K of UWMP Guidebook) <i>Drop down list (y/n)</i>	Yes
If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, etc... utilized in demand projections are found.	Chapter 9
Are Lower Income Residential Demands Included In Projections? <i>Drop down list (y/n)</i>	Yes
NOTES: See Section 4.2.6.1 for details on what is included in the Water Use Projections and why this table states no future water savings are included in projections.	

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4.5 Climate Change Considerations

Climate change presents a challenge in water planning for water suppliers around the globe. For LVMWD, long-term supply is projected to meet demands even with climate change considerations incorporated. Water use is predicted to see a higher average value from temporary emergency uses to fight fires (currently projected at 106 AF through 2024, an average from 2016-2020 values when the District experienced extreme fires). Climate change considerations are shown in supply projections by means of available imported water predicted through MWD. Climate changes are expected to impact groundwater and other supply sources, but they are difficult to quantify and are accounted for in the conservative reporting of this UWMP.

MWD's water supply planning has almost one-hundred years of hydrological data regarding weather and water supply. This history has provided a foundation for forecasting frequency and severity of future droughts, as well as the frequency and abundance of above-normal rainfall. However, weather patterns can shift dramatically and unpredictably, significantly affecting water supply planning.

Although there are uncertainties of the exact timing, magnitude, and regional impacts of temperature and precipitation changes, researchers have identified several areas of concern for California water planners including:

- Reduction in Sierra Nevada snowpack;
- Increasing intensity and frequency of extreme weather events;
- Increased frequency and duration of extreme heat, impacting health and evapotranspiration; and
- Rising sea levels resulting in
 - Impacts to coastal groundwater basins due to seawater intrusion;
 - Increased risk of damage from storms, high-tide events, and the erosion of levees; and
 - Potential pumping cutbacks on the SWP and Central Valley Project (CVP).

Other areas of concern due to climate change include:

- Effects on local supplies such as groundwater;
- Changes in urban and agricultural demand levels and patterns;
- Impacts to human health from water-borne pathogens and water quality degradation;
- Declines in ecosystem health and function; and
- Alterations to power generation and pumping regimes.

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Chapter 5: SBX7-7 Baseline, Targets, and 2020 Compliance

This chapter reports the daily per capita water use targets that were developed in accordance with the Water Conservation Act of 2009, also known as Senate Bill x7-7 (SBx7-7). SBx7-7 provides regulatory framework to support a statewide reduction of urban per capita water use of 20 percent by December 31, 2020.

In addition, two important legislative actions were passed in 2018 that require water agencies to implement additional conservation efforts. AB 1668 and SB 606 build on previous state efforts to make water conservation a way of life in California and create a new foundation for long-term improvements in water conservation and drought planning. These legislative actions will provide the long-term direction of state conservation efforts and will have important implications for the District as it implements conservation programs to achieve the state requirements³. SB 606 and AB 1668 establish guidelines for efficient water use and a framework for the implementation and oversight of the new standards, which must be in place by 2022. In addition to these legislative actions, system water loss legislation under SB-555 also requires urban retail water providers to achieve water loss standards for minimizing system water loss (i.e. pipeline leaks). Collectively these bills are anticipated to strengthen the state's water resiliency in the face of future water shortages⁴.

The previous 2015 UWMP measured the progress towards this goal by reporting per capita water use and comparing it to the intermediary goal of a 10 percent reduction by December 31, 2015. The 2010 UWMP required retail water suppliers to develop baseline daily per capita water use, a minimum baseline daily per capita water use, and target daily per capita water use for 2015 and 2020. The baseline daily per capita water use could be based on one of four methods described below:

- Method 1: 80 percent of the water supplier's baseline per capita water use
- Method 2: Per capita daily water use estimated using the sum of performance standards applied to indoor residential use; landscape area water use; and commercial, industrial, and institutional uses
- Method 3: 95 percent of the applicable state hydrologic region target as stated in the State's April 30, 2009 draft 20x2020 Water Conservation Plan
- Method 4: A best management practices (BMP) Option based on standards that are consistent with California Urban Water Conservation Council's (CUWCC) BMPs

For this LVMWD UWMP, Method 1 is used.

5.1 Guidance for Wholesale Suppliers

This section is not applicable for LVMWD's UWMP.

5.2 SBX7-7 Forms and Summary Table

Table 5-1 shows the average baselines and confirmed 2020 targets for LVMWD that were established in the 2010 UWMP.

³ Comprehensive Water Conservation Plan for LVMWD for FY 2020-2022, LVMWD, 2021.

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Submittal Table 5-1 Baselines and Targets Summary From SB X7-7 Verification Form <i>Retail Supplier or Regional Alliance Only</i>				
Baseline Period	Start Year *	End Year *	Average Baseline GPCD*	Confirmed 2020 Target*
10-15 year	1999	2008	311	249
5 Year	2004	2008	322	
<i>*All cells in this table should be populated manually from the supplier's SBX7-7 Verification Form and reported in Gallons per Capita per Day (GPCD)</i>				
NOTES:				

5.3 Baseline and Target Calculations for 2020 UWMP

5.3.1 Supplier Submitted 2015 UWMP, No Change to Service Area

The District's service area did not change, and the baseline target calculation (which used service area as a means to obtain the calculation) was included in the 2015 UWMP; therefore, the calculations from the 2015 UWMP do not need to be updated and will be used for the 2020 UWMP to report SBx7-7 compliance in 2020.

5.3.2 Baseline Periods

Baseline daily per capita water use is defined as a continuous 10- or 15-year base period (baseline) for water use ending no earlier than December 31, 2004 and no later than December 31, 2020. Average baseline water use for the 10-15 year base period is 311 gpcd, and average for the 5 year period is 322 gpcd.

5.4 Methods for Calculating Population and Gross Water Use

5.4.1 Calculating Population

The DWR Population tool was used to determine the 2020 population for the LVMWD service area, which extracts U.S. Census data at the block level for boundaries submitted by the user. LVMWD submitted its service area boundary for the tool to use in 2015. For non-census years (or for years in which the U.S. census data is not yet available), the population tool uses Persons-per-Connection methodology.

After the 2020 population was established, the projected population was linearly increased until the buildout value in 2040.

5.4.2 Gross Water Use

Gross water use for the baseline and minimum baseline periods were calculated as part of the SBx7-7 Verification forms which is included in Appendix F.

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5.5 2020 Compliance Daily Per-Capita Water Use (GPCD)

In 2020, the District's per capita water use was 227 gpcd, which falls under the 2020 target of 249 gpcd as shown in Table 5-2. There were no adjustments applied to the 2020 gpcd and the District met the targeted reduction for 2020.

Submittal Table 5-2: 2020 Compliance From SB X7-7 2020 Compliance Form <i>Retail Supplier or Regional Alliance Only</i>				
2020 GPCD			2020 Confirmed Target GPCD*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
Actual 2020 GPCD*	2020 TOTAL Adjustments*	Adjusted 2020 GPCD* <i>(Adjusted if applicable)</i>		
227	<i>SB X7-7 Table 9</i>	227	249	<i>Yes</i>
*All cells in this table should be populated manually from the supplier's SBX7-7 2020 Compliance Form and reported in Gallons per Capita per Day (GPCD)				
NOTES:				

5.6 Regional Alliance

A regional alliance is a group of water suppliers agreeing among themselves to plan, comply, and report urban water use target requirements of SBX7-7 as a region. The District is not participating in a regional alliance in the context of this UWMP.

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Water Supply Characterization

April 7, 2021

Chapter 6: Water Supply Characterization

6.1 Water Supply Analysis Overview

LVMWD is located in the Santa Monica mountains and has very limited natural water resources based on the geographic location and topography. Currently, the District relies on four sources for water supply: imported potable water from MWD and Ventura County Waterworks District's (VCWWD No. 17), (VCWWD No. 8), and the City of Los Angeles, and recycled water from the Tapia Water Reclamation Facility (TWRP), groundwater from the Thousand Oaks Area Basin (which is only used to supplement the recycled water supplies), and surface runoff into the Las Virgenes Reservoir. The District is also investing in their advanced water treatment (AWT) system at TWRP through their Pure Water Project. This project involves using tertiary treated recycled wastewater and treating it through advance filtration methods to meet State drinking water standards for storage in the Las Virgenes Reservoir. LVMWD has developed these water resources to provide increased water reliability and efficient water use to help meet the water demand of the LVMWD service area into the future.

6.1.1 Specific Analysis Applicable to All Water Supply Sources

The District has two (2) separate water systems: one for potable water to serve potable retail customers and one for recycled water to serve irrigation customers. The two water systems are described in detail in Chapter 3. See Figure 6-1 for a schematic of water supplies to each system.

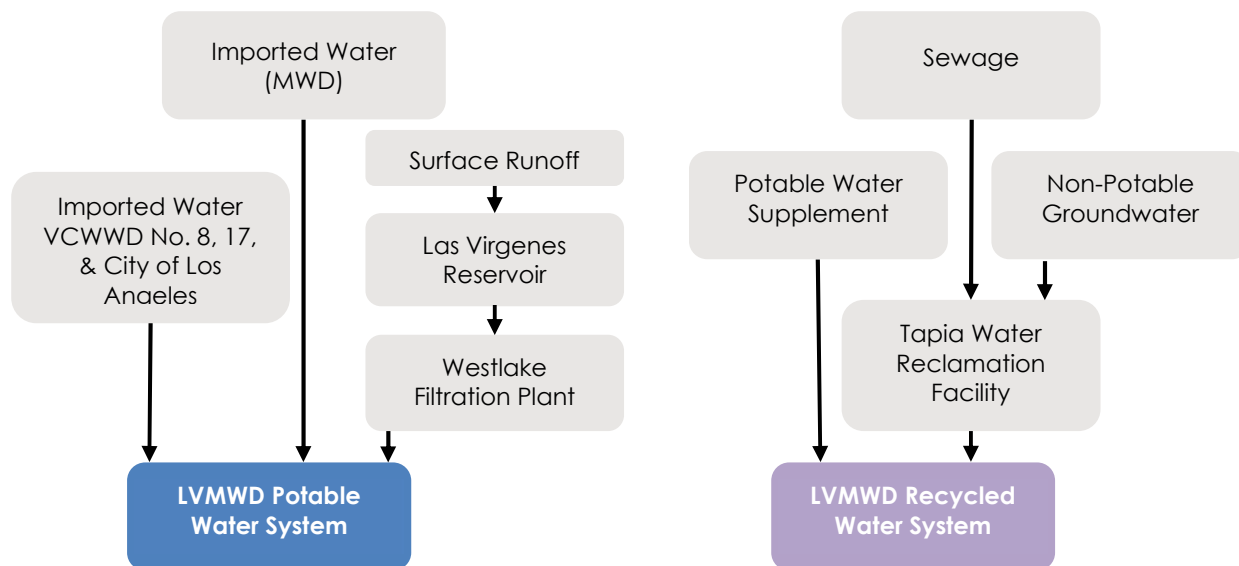


Figure 6-1 Schematic of LVMWD Water Supplies to Each System

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Water Supply Characterization

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Potable Water System: The largest source of supply for LVMWD's potable water system is imported water. In 2020, the District purchased potable water from MWD the City of Los Angeles, VCWWD No. 17, and VCWWD No. 8. Aside from surface water runoff into the Las Virgenes Reservoir, imported water accounted for all the supply to the potable water system. Supply from these sources for normal, single-dry, and five-year drought reflect the reliability of these sources as discussed in 7.2.

Imported potable water is stored in the Las Virgenes Reservoir. The water stored in the reservoir is treated to meet Title 22 California Code of Regulations; Division 4; Chapter 17 requirements at the Westlake Filtration Plant (WFP). In low demand seasons, LVMWD puts imported water into the reservoir, while in high demand seasons LVMWD draws upon the reservoir to meet the increased demands.

The District is also investing in their Pure Water Project in which tertiary treated wastewater will go through advance water treatment methods to reach drinking water standards. This advanced treated water will be blended and stored with the water in the Las Virgenes Reservoir and treated further at the WFP prior to distribution in the potable water system.

Recycled Water System: The Tapia Water Reclamation Facility (TWRF) treats, on average, 8 mgd of sewage and brings virtually all of the secondary effluent to tertiary treated levels meeting Title 22 Requirements. In 2020, 5,892 AF of recycled water was delivered to LVMWD's recycled water system for beneficial reuse. Wastewater flows to the TWRF are historically consistent through normal and dry years so supply during normal, single-dry, and five-year drought are expected to remain constant.

Groundwater from LVMWD's two (2) groundwater production wells provide supplemental water to the TWRF to aid in recycled water supplies as needed. Groundwater supply is not directly shown in Table 6-8 but is accounted for in the total recycled water volume.

Projected supply for the potable water and recycled water systems for 2025 to 2045 is shown in Table 6-9.

6.1.2 Other Characterization Considerations

See Figure 3-1 for a map of water facilities and LVMWD service area.

6.1.3 Optional Planning Tool

The Optional Planning Tool was not used in this UWMP.

6.2 Narrative Sections for Water Supply Characterizations

6.2.1 Purchased or Imported Water

LVMWD's potable water is provided through multiple agencies, with the largest imported supply through wholesale purchases from MWD. MWD imports water from northern California through the SWP and the Colorado River to meet the needs of 26 member agencies across six Southern California counties. LVMWD is one of MWD's member agencies. Currently, the configuration of MWD's distribution system allows LVMWD to receive SWP water originating from northern California through the Sacramento-San Joaquin Bay-Delta. The SWP water is treated at Jensen Filtration Plant in Granada Hills prior to delivery to LVMWD. LVMWD's historical and current SWP deliveries from MWD are shown in Table 6-C.

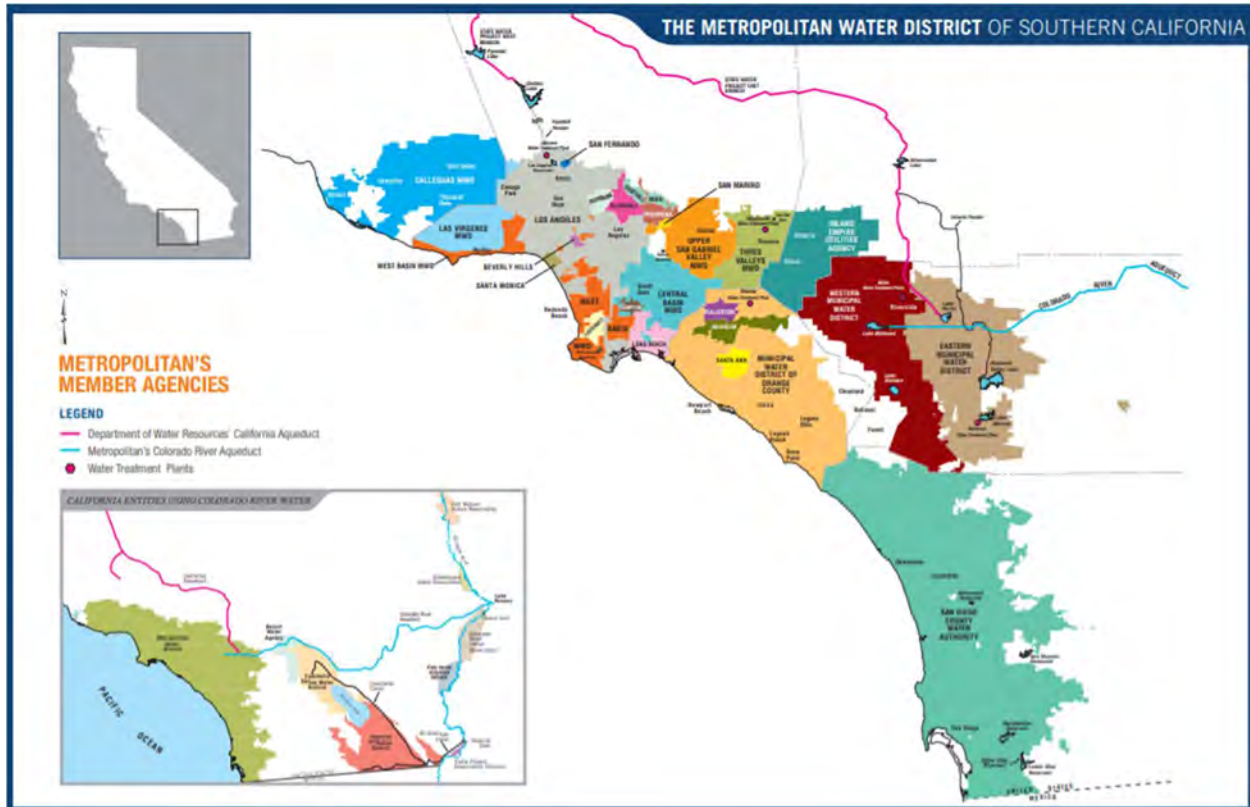
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6.2.1.1 Metropolitan Water District of Southern California (MWD)

MWD is a wholesale water agency formed in 1928 and is comprised of 26 member cities and water agencies as shown in Table 6-A. As a wholesaler, MWD has no retail customers but serves customers through member cities and agencies which account for approximately 19 million people in six Southern California counties. MWD's service area is shown in Figure 6-2.



Source: http://www.mwdh2o.com/PDF_NewsRoom/6.4.2_Maps_MemberAgencies.pdf

Figure 6-2: MWD Service Area

Table 6-A: MWD Member Cities and Agencies		
City of Anaheim	City of San Fernando	Inland Empire Utilities Agency
City of Beverly Hills	City of San Marino	LVMWD
City of Burbank	City of Santa Ana	Municipal Water District of Orange County

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City of Compton	City of Santa Monica	San Diego County Water Authority
City of Fullerton	City of Torrance	Three Valleys Municipal Water District
City of Glendale	Calleguas Municipal Water District	Upper San Gabriel Valley Municipal Water District
City of Long Beach	Central Basin Municipal Water District	Western Basin Municipal Water District
City of Los Angeles	Eastern Municipal Water District	Wester Municipal Water District of Riverside County
City of Pasadena	Foothill Municipal Water District	

Colorado River

MWD has a permanent service contract with the Secretary of the Interior which grants them legal entitlement to receive water from Lake Havasu on the Colorado River. MWD owns and operates the Colorado River Aqueduct (CRA) which transports an annual 1.2 million acre-feet of water from Lake Havasu to Lake Mathews in Riverside County. Lake Havasu located on the Colorado River along the California-Arizona boarder is approximately 242 miles from Lake Mathews. Most of this water is conveyed to member agencies south and east of LVMWD.

Sacramento- San Joaquin River Delta

MWD also receives and treats water from the San-Joaquin River Delta (Delta) in Northern California via a contract with the Department of Water Resources. Water is conveyed from the Delta via the 444-mile-long California Aqueduct, part of the State Water Project (SWP). The SWP is a water storage and delivery system of reservoirs, aqueducts, power plants and pumping plants extending more than 700 miles throughout California. The SWP is managed by the Department of Water Resources (DWR) and is the nation's largest state-built, multi-purpose, user-financed water project and can deliver nearly 4.2 million acre-feet of water annually. The SWP provides imported water to MWD's service area making up 25 to 50 percentage of MWD's supply. In accordance with its contract, MWD has a Table A allocation of 1,911,500 acre-feet per year. SWP water is treated at MWD's owned and operated Joseph Jensen Filtration Plant in Grenada Hills. This treated water from the Sacramento-San Joaquin River delta is imported to LVMWD via three connections to the MWD's system. Based on the LVMWD's *Potable Water Master Plan Update 2014*, LVMWD's total instantaneous imported water supply capacity is 33,000 gallons per minute (gpm), or 73 cubic feet per second (cfs), as shown in Table 6-B: Capacities of MWD Connection.

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Table 6-B: Capacities of MWD Connection			
Connection	MWD Pipeline Designation	Current Capacity (gpm/AFY)	Planned Capacity (gpm/AFY)
LV1	West Valley Feeder No. 1	11,000 (gpm) / 17,750 (AFY)	11,000 (gpm) / 17,750 (AFY)
LV2	Calabasas Feeder	20,000 (gpm) / 34,000 (AFY)	34,000 (gpm) / 54,880 (AFY)
LV3	West Valley Feeder No. 2	2,000 (gpm) / 3,228 (AFY)	3,100 (gpm) / 5,004 (AFY)
Total		33,000 (gpm) / 53,258 (AFY)	48,000 (gpm) / 77,634 (AFY)

Source: 2007 Integrated Systems Master Plan (Boyle 2007a), as presented in LVMWD's 2010 UWMP Table 3.4. *The capacity of the turnouts is limited by agreement.

Reliability of MWD Supplies

MWD has invested significantly in the development of a diverse resource mix to ensure continued reliability of its supplies. In addition, MWD has undertaken numerous planning initiatives, including an update to the Integrated Water Resources Plan (IRP 2015), the Water Surplus and Drought Management Plan, the Water Supply Allocation Plan, and the Long-Term Conservation Plan. Additional details on these reports are found in Chapter 7. These efforts enable MWD to meet the water supply needs of its member agencies under various water year types.

Based on the 2020 draft MWD UWMP and as discussed in section 7.2, it is anticipated that supplies will reliably meet water demands through 2040 during average, single dry-, and five-year drought. MWD estimates a surplus of supplies over demands for all water year types for their customer base. Based on this reliability, MWD can supply the full water demands for LVMWD for all year types. Hence, for purposes of projecting available imported MWD supplies for this 2020 UWMP, these water supplies have been set equal to total LVMWD demands less other imported water supplies and are shown in Table 6-9.

6.2.1.2 Imported Supplies from Other Agencies

In addition to the imported water connections with MWD, the District also purchases a small amount of treated imported water from the City of Simi Valley/Ventura County Waterworks District No. 8, Ventura County Waterworks District No. 17 and a connection to the City of Los Angeles. During times of MWD system outages, LVMWD periodically purchases water supplied by the City of Los Angeles Department Water and Power through two different turnouts. One is located at Kittridge Street and the other at Germain Street with maximum capacities of 9,000 gpm and 1,350 gpm, respectively. Historically, these supplies from other agencies account for less than one percent of LVMWD's potable water supply. Interconnections with these agencies provide potable water generally to two small areas in the hills west of the San Fernando Valley, Woolsey Canyon and Box Canyon which include the cities of West Hills and

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Chatsworth. These areas are geographically isolated, and currently not connected to the rest of the LVMWD distribution system. A summary of historical purchases from 2016 to 2020 for imported sources are shown in Table 6-C.

Table 6-C: LVMWD Historical Supply for 2016 to 2020						
	Historical Imported Water Supply (AFY)					
Import Water Supplier	2016	2017	2018	2019	2020	Average
MWD	18,151	18,313	20,368	17,437	20,392	18,932
VCWWD No. 8	17	19	41	23	39	139
VCWWD No. 17	91	94	97	93	102	95
City of Los Angeles	1,653	839	0	446	284	644
Total	19,912	19,265	20,506	17,999	20,817	19,700

6.2.2 Groundwater

LVMWD service area overlies portions of multiple groundwater basins including the Thousand Oaks Area, Russel Valley, Malibu Valley, and San Fernando Valley Basins as shown in Figure 6-3. Currently, LVMWD only operates two (2) groundwater production wells in the Thousand Oaks Area Basin: the Westlake Well 1 and Westlake Well 2. These groundwater wells are located along Lindero Canyon Road, South of Highway 101. The combined capacity of these two wells is approximately 1.15 mgd, or 800 gpm. Groundwater from these wells provide a local source of water supplies solely used to augment recycled water supplies due to high levels of iron and manganese. These supplies are accounted for under recycled water and are not explicitly listed in total LVMWD supply tables. Before the groundwater is used to supplement recycled water, it is treated via discharge into the sewer collection system when additional recycled water is needed. After mixing and conveyance, this water is treated at the Tapia Water Reclamation Facility (TWRF), at which point it is used to supplement the recycled water system.

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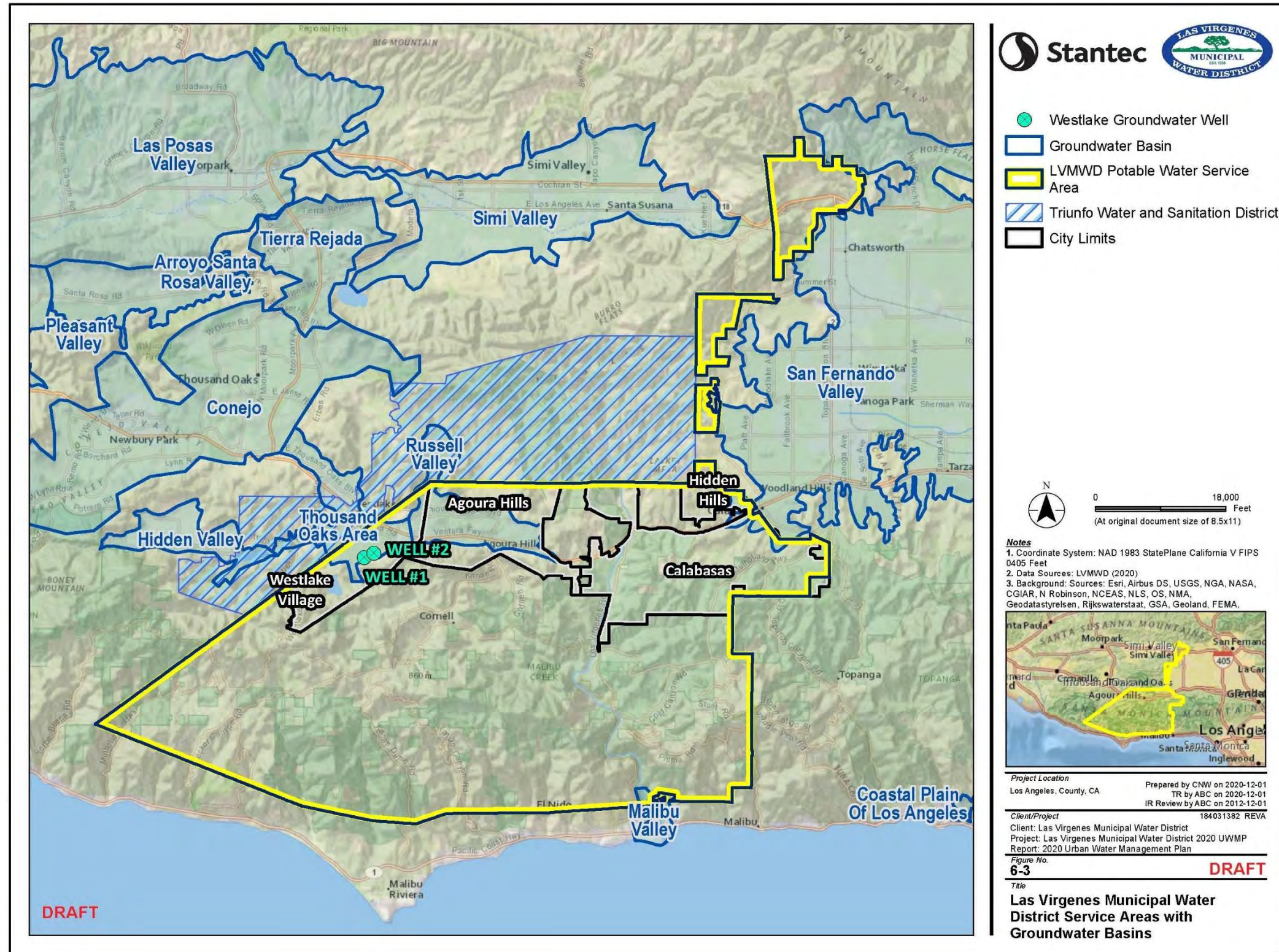


Figure 6-3: LVMWD Service Areas with Groundwater Basins

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6.2.2.1 Basin Description

The Thousand Oaks Area Groundwater Basin (Basin), DWR Basin No. 4-019, shown on Figure 6-3, is a relatively small alluvial basin bounded by semi-permeable rocks of the Santa Monica Mountains. Triunfo Creek drains the valley into Malibu Creek. The Basin underlies a surface area of about 3,100 acres or five square miles. Groundwater in the Basin is primarily found in Quaternary age alluvium, with some water found in sandstone beds and fractures. Recharge to the Basin occurs by percolation of rainfall and stream flow from Conejo Creek. The Basin is estimated to have a total storage capacity of 130,000 AF⁴. According to California's Groundwater Bulletin 118, groundwater quality is impacted by magnesium-calcium- and sodium-sulfate. TDS content averages about 1,400 mg/L but can be as high as 2,300 mg/L in some areas. In addition to high TDS levels in the Basin, water quality is also impaired by high alkalinity and hardness⁴. Due to poor water quality, groundwater from the Thousand Oaks Area Basin is only used to supplement the recycled water supply by pumping to TWRF.

6.2.2.2 Multiple Groundwater Basins

LVMWD does not utilize multiple basins within its service area.

6.2.2.3 Other Considerations

Groundwater Management

The Thousand Oaks Area Basin is not adjudicated and DWR has not identified it to be in an overdraft condition based on Bulletin 118. There are no defined legal pumping rights for LVMWD within the basin. LVMWD has not adopted a groundwater management plan, and a regional groundwater management plan does not currently exist for the Basin. The Thousand Oaks Area Groundwater Basin has been rated a "very low" priority basin by DWR and as such is not subject to the Sustainable Groundwater Management Act of 2014.

6.2.2.4 Past Five Years

As groundwater supplies are only used to supplement LVMWD's recycled water system during the peak demand season, annual groundwater pumping can vary significantly. Figure 6-4 shows groundwater pumping over 2020.

⁴ California Department of Water Resources (DWR). 2004. California's Groundwater Bulletin 118 – Thousand Oaks Area Groundwater Basin. Updated February 2004.: https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Bulletin-118/Files/2003-Basin-Descriptions/4_019_ThousandOaksArea.pdf

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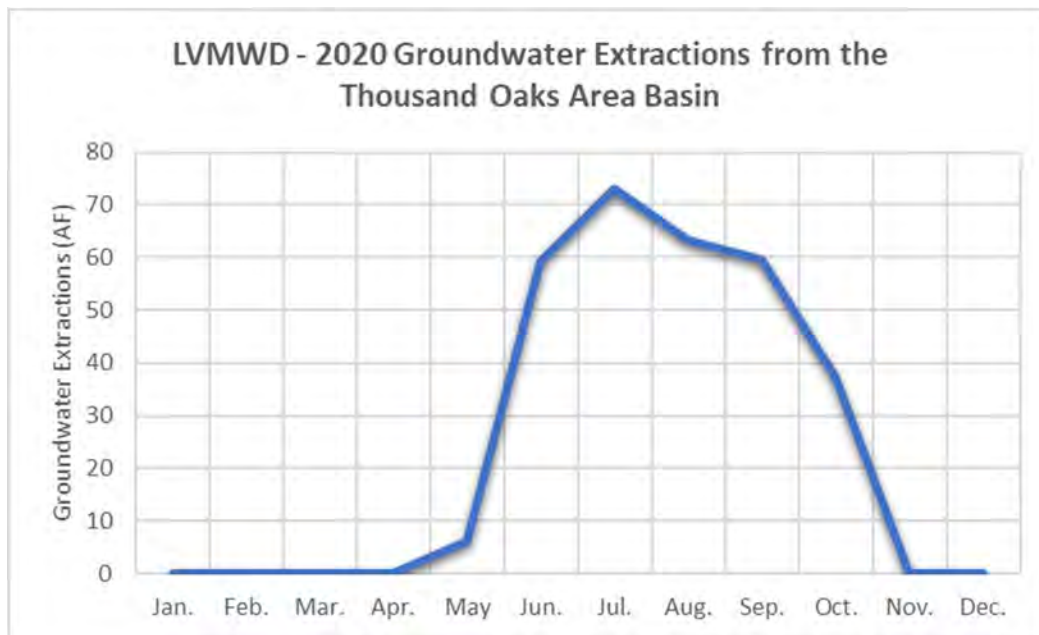


Figure 6-4: LVMWD Groundwater Extractions 2020

The amount of groundwater pumped each year from the Basin via the Westlake Wells over the last five years is presented in Table 6-1. The average volume extracted over this period was 310 AFY.

Submittal Table 6-1 Retail: Groundwater Volume Pumped						
<input type="checkbox"/>	Supplier does not pump groundwater. The supplier will not complete the table below.					
<input type="checkbox"/>	All or part of the groundwater described below is desalinated.					
Groundwater Type	Location or Basin Name	2016*	2017*	2018*	2019*	2020*
Alluvial Basin	Thousand Oaks Area Basin	291	378	358	228	299
TOTAL		291	378	358	228	299
* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.						
NOTES:						

Based on the current conditions of the Thousand Oaks Area Basin, the low-priority rating by DWR, and historically low levels of pumping by LVMWD, groundwater supplies are anticipated to be reliably

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available throughout the planning period of this UWMP. Projections of groundwater to be pumped from the Basin are presented in Table 6-D. These projections assume that groundwater will be required to supplement wastewater flows for production of recycled water for two months out of each year based on average historical pumping.

Location or Basin Name	2025	2030	2035	2040	2045
Thousand Oaks Area Basin	310	310	310	310	310
TOTAL	310	310	310	310	310

NOTES: Groundwater pumping projections assumes the average over the last five years will remain constant to supplement recycled water supplies.

6.2.3 Surface Water

LVMWD owns and operates the Las Virgenes Reservoir, located in the hills south of Westlake Village. The total capacity is approximately 9,500 acre-feet. The reservoir was created to assure reliable drinking water delivery to LVMWD customers during peak seasonal demand.

This reservoir is filled with imported water and is withdrawn and replenished as needed. In low demand seasons LVMWD puts water into the reservoir, while in high demand seasons LVMWD draws upon the reservoir to meet the increased demands.

The reservoir is also a “backup” during scheduled shutdowns for maintenance, in times of drought, or in the event of earthquakes and other emergencies. Las Virgenes Reservoir played an important role after the 1994 Northridge Earthquake, when service from MWD was interrupted. During interruption, water from the reservoir was distributed to customers in LVMWD’s service area.

In addition to serving as a seasonal storage facility, the reservoir also provides emergency storage capacity that can be used during imported water outages. Although LVMWD also has an intertie to the LADWP system used during scheduled MWD outages, it cannot supply the total demand of LVMWD. If LADWP was unable to deliver water to the District, the Las Virgenes Reservoir would be the only source of supply that LVMWD could count on.

Before water is pumped into the distributions system, the reservoir water is treated at the Westlake Filtration Plant (WFP) to meet State Title 22; Division 4; Chapter 17 and Division of Drinking Water requirements. The WFP can deliver approximately 18 million gallons per day (mgd) of treated drinking water and typically operates during periods of peak demand in the summer. Water is filtered using diatomaceous earth (or DE). The water then goes through primary disinfection, using sodium hypochlorite. Prior to distribution, ammonia is added to produce chloramines as a secondary disinfectant to maintain water quality as it moves through pipes to consumers. During the Woolsey Fire in November 2018, the WFP and surrounding property were damaged. Since then, with the effort of LVMWD staff,

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insurance, and FEMA agents, the facilities and surrounding areas have been restored to include Water Wise and Eco-friendly landscaping.

The total volume of Las Virgenes reservoir typically fluctuates by several hundred to more than 1,000 AF each year. Since its creation, the reservoir has remained at a volume of approximately 7,300 AF, but occasionally drops below 4,000 AF during dry months, and reaches over 9,000 AF when recharge water is purchased from MWD. While the reservoir's watershed area does not supply a significant source of water in most years, it is estimated that sufficient runoff is typically produced to offset evaporative losses. Based on an assumed watershed area of 550 acres, the watershed is estimated to receive about 770 AF of water annually, whereby average evaporation losses are estimated to be approximately 700 AFY. Due to the uncertainties of runoff volumes and minimal contribution to overall water supplies, this runoff cannot be reliably accounted for in LVMWD supplies and is not included in Table 6-9.

6.2.4 Stormwater

Stormwater is not used for supply to LVMWD's system.

6.2.5 Wastewater and Recycled Water

6.2.5.1 Recycled Water Coordination

Wastewater flows in the area are treated to secondary and tertiary levels at the TWRP. LVMWD has aggressively pursued the development of a recycled water system and optimizations for reuse in its service area. The District requires all non-residential landscaping located along the District's recycled water distribution main lines to be designed or converted to utilize recycled water for landscape irrigation. Currently, LVMWD serves recycled water to 661^{5, pg. 6.19} dedicated recycled water accounts within their service area. Recycled water master planning efforts began in the 1980s with concepts for a system to serve the region. Master Plans for the existing recycled water system were prepared in 1985, 1988, 1999, 2007, and most recently updated in 2014. The existing recycled water system is jointly owned and operated by LVMWD, Trunfio Water and Sanitation District (TWSD), and Calleguas Municipal Water District (CMWD). This system currently serves customers ranging from Calabasas in the east to Thousand Oaks in the west.

6.2.5.2 Wastewater Collection, Treatment, and Disposal

Wastewater Collection and Treatment

TWRP was initially constructed in 1965 with an initial capacity of 0.5 mgd. The plant is located on Malibu Canyon Road at the southern edge of LVMWD's wastewater service area, as shown in Figure 6-5 and provides primary, secondary, and tertiary treatment for wastewater contributed by both LVMWD and TWSD from their respective service areas and groundwater from the Westlake Wells as needed.

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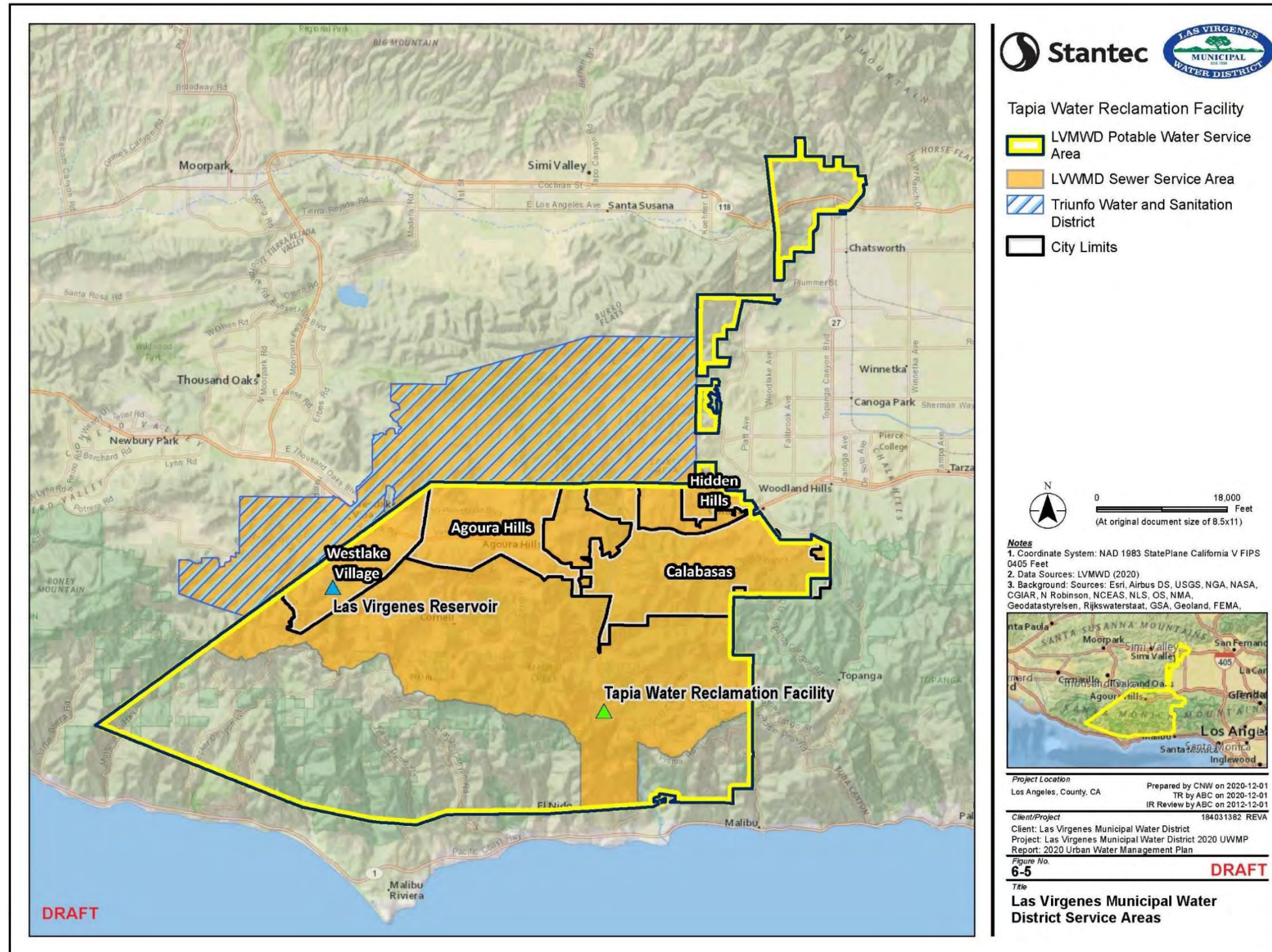


Figure 6-5: TWRf Sewer Service Area

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The current design treatment capacity of TWRP is 16 mgd (17,922 AFY). However, due to permit limitations on nutrients, the current treatment capacity is approximately 12 mgd (13,442 AFY). Historically, annual wastewater flows to the TWRP has averaged 8 mgd², pg. 3.8 (8,960) AFY. In 2020, the average daily flows to TWRP were consistent throughout the year but did show slight seasonal variation as shown in Figure 6-6. During storm events the daily flows into the TWRP can double due to inflow and infiltration into the sewer mains. In 2020, wastewater flows to the plant totaled approximately 7.8 mgd (8,742 AFY) with 1.1 mgd (1,176 AFY) of re-treated effluent, 4.3 mgd (4,779 AFY) from customers in LVMWD service area, and 2.2 mgd (2,488 AFY) from TWDS's service area. Approximately 0.27mgd (299 AFY) of groundwater was introduced into the wastewater system from LVMWD's two groundwater wells in 2020 to supplement recycled water during the summer months. In 2020, the ratio of LVMWD wastewater to TWSD wastewater was approximately 66 to 34 percent with historical average around 60 to 40 percent. Total wastewater collected is shown in Table 6-3.

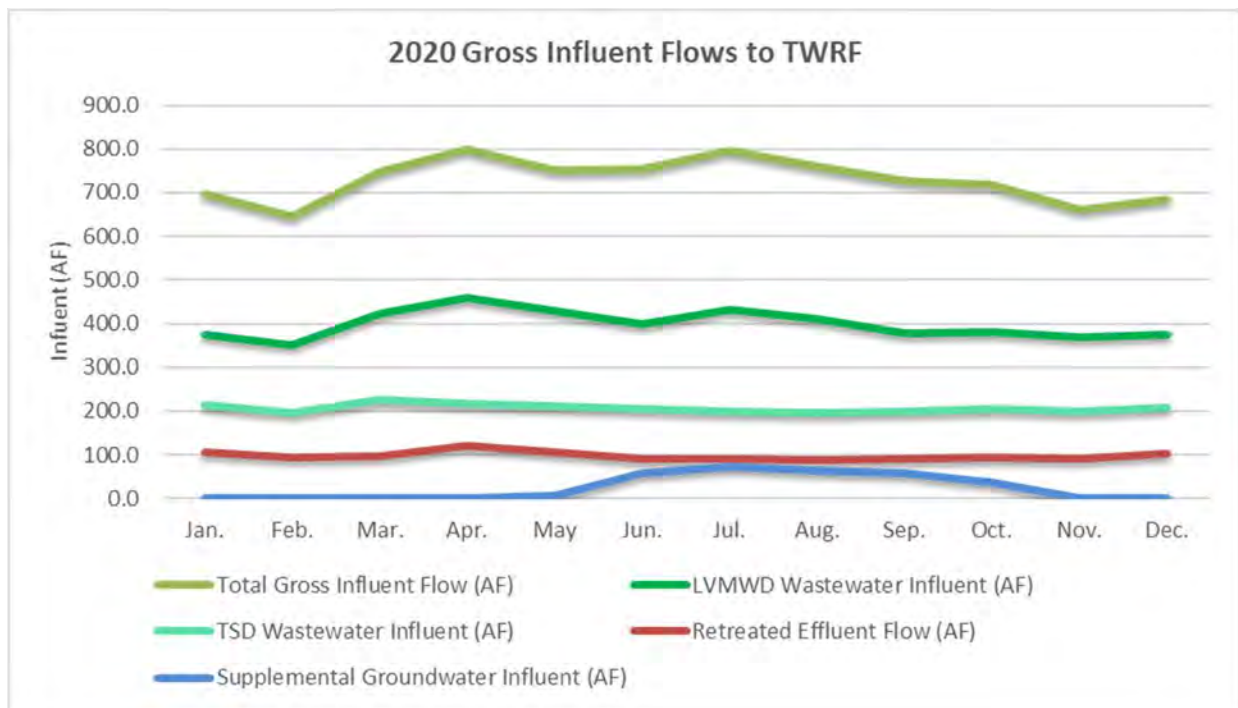


Figure 6-6: 2020 Gross Wastewater Influent Flows to TWRP

Disposal

The supply of recycled water is relatively constant because wastewater flows are steady throughout the year. On the other hand, demands on the recycled water system vary on a seasonal basis. Demands during summer peaks can be several times higher than typical spring and fall demands. See Figure 6-7 for the seasonal variation of recycled water demands. Currently, recycled water demand exceeds supply during summer months and is much lower than available supply during winter months. Because of this, a portion of the supply is required to be disposed of in the winter months.

Discharges from the TWRP are regulated under an NPDES permit (Order No. R4-2005-0074) issued by the Los Angeles Regional Water Quality Control Board.

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Excess treated wastewater effluent from TWRP is discharged to two local waterways. Primarily, during the months of November to April, excess treated effluent is discharged to Malibu Creek. The NPDES permit generally prohibits discharging to Malibu Creek from April 15 to November 15, but when the creek flow drops below 2.5 cfs during this period, LVMWD is required to release recycled water from TWRP to provide water pools (habitat) for the endangered steelhead trout. Beyond what can be discharged to Malibu Creek, the excess is discharged to the Los Angeles River, via the Arroyo Calabasas, which requires pumping over the Calabasas grade.

Additional disposal through Rancho Farm Irrigation via “spray fields” is an option when disposal to either creek is not an option based on regulations.

Recycled water

During periods of peak recycled water demands, supply of treated effluent is not sufficient to meet recycled water demands. Beyond recycled water storage, LVMWD supplements its recycled water with two sources: supplemental water from two (2) groundwater production wells and potable water. As mentioned in Section 6.2.2 groundwater is conveyed to the TWRP via the sewer system to be treated and distributed as recycled water. On average, groundwater from the wells account for 310 AFY. See Table 6-1 for groundwater production over the past five years. In 2020, the District extracted approximately 299 AF of groundwater to supplement recycled water.

In 2020, supplies to the recycled water system totaled 5,892 AFY with 4,623 AFY purchased by customers within LVMWD’s service area. This difference in supply versus purchased recycled water is due to internal use, losses, and other non-billed uses. Historical demands have significantly exceeded recycled water availability in the summer months even with the utilization of supplemental groundwater water. As a result, potable water is also needed to supplement the recycled water supply to meet irrigation demands. Since 2016, the amount of supplemental imported water has averaged approximately 682 AFY. In 2020, 332 AF of potable water was added to the recycled water system to meet high recycled water demands during the summer months. See Figure 6-7 for seasonal demand variation and potable water supplement for 2020. Supplementing with potable water is possible from three potable storage reservoirs, listed as follows:

Reservoir	Capacity (gpm / AFY)
Cordillera Tank	1,200 gpm / 1,937 AFY
Reservoir No. 2	2,100 gpm / 3,390 AFY
Morrison tank	1,300 gpm / 2,098 AFY
Total	4,600 gpm / 7,425 AFY

Supplemental water sources to the recycled water system and respective volumes in 2020 are shown in Table 6-F.

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Table 6-F: 2020 Supplemental Water Volumes	
Source	Volume (AF)
Groundwater	299
Potable Water	332
Total	631

Wastewater collected within LVMWD’s service area in 2020 is shown in Submittal Table 6-2.

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Submittal Table 6-2 Retail: Wastewater Collected Within Service Area in 2020						
<input type="checkbox"/>	There is no wastewater collection system. The supplier will not complete the table below.					
100	Percentage of 2020 service area covered by wastewater collection system <i>(optional)</i>					
100	Percentage of 2020 service area population covered by wastewater collection system <i>(optional)</i>					
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated?	Volume of Wastewater Collected from UWMP Service Area 2020	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area?	Is WWTP Operation Contracted to a Third Party? <i>(optional)</i>
<i>Add additional rows as needed</i>						
JPA (LVMWD, TWSD)	Metered	4,779*	JPA (LVMWD, TWSD)	Tapia Water Reclamation Facility	Yes	No
Total Wastewater Collected from Service Area in 2020:		4,779				
NOTES: *Volume of wastewater collected is for LVMWD Service Area only and does include inflows from TWSD						

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Submittal Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2020										
No wastewater is treated or disposed of within the UWMP service area. The supplier will not complete the table below.										
Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Method of Disposal	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level	2020 volumes ¹				
						Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area ³	Recycled Outside of Service Area	Instream Flow Permit Requirement
Tapia Water Reclamation Facility	Malibu Creek (001)	Monte Nido Area	River or creek outfall	Yes	Tertiary	8,742	2,065	5,892	298	0
Tapia Water Reclamation Facility	Arroyo Calabasas Creek (005)	Los Angeles River	River or creek outfall	Yes	Tertiary	0*	149	0*	0*	0
					Total	8,742	2,214	5,892	298	0

¹Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.
² If the **Wastewater Discharge ID Number** is not available to the UWMP preparer, access the SWRCB CIWQS regulated facility website at <https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/CiwqsReportServlet?inCommand=reset&reportName=RegulatedFacility>

NOTES: Values shown as 0* are counted in the row above.

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6.2.5.3 Recycled Water System Description

The system begins at the TWRF, which is owned by the Joint Powers Authority (JPA) of LVMWD and TWSD. On average 9.5 million gallons per day (29.2 AFY) of wastewater is treated to a tertiary level allowing it to be distributed for non-potable recycled water uses. Recycled water uses are mainly landscape irrigation and golf course irrigation. The JPA also owns and operates a complex distribution system, consisting of pipelines, pump stations, tanks and reservoirs, and associated appurtenances to deliver the recycled water to areas of Los Angeles and Ventura Counties (Kennedy/Jenks Consultants/HDR 2014).

6.2.5.4 Potential, Current, and Projected Recycled Water Uses

As of 2020, recycled water supplies accounted for approximately 22 percent of the total supply of the potable and recycled water systems. In summer and fall, all wastewater produced at TWRF is effectively recycled to meet the seasonal high demands. See Figure 6-7 for seasonal variations in recycled water demands versus inflow to TWRF.

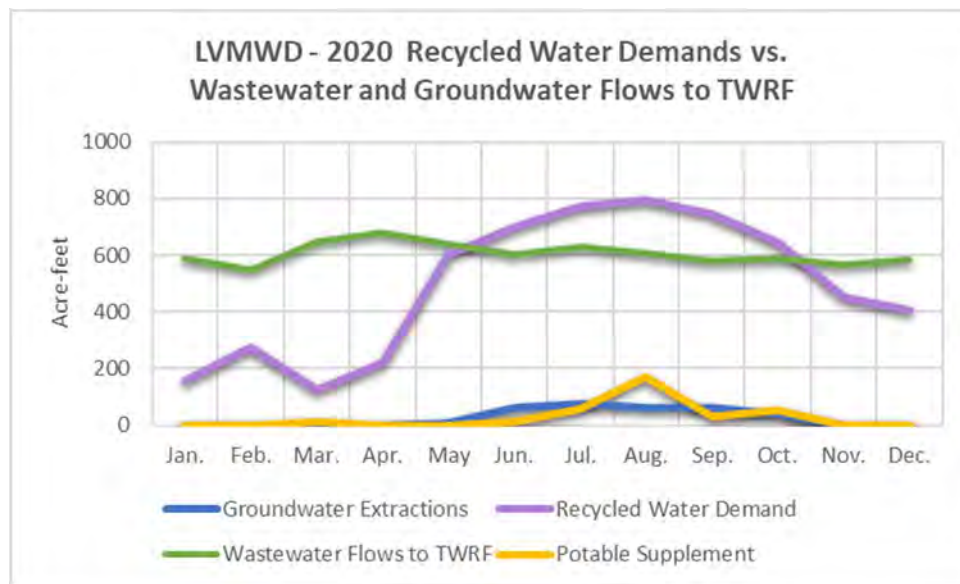


Figure 6-7: 2020 Recycled Water Demand Seasonal Variation

While the Regional Water Quality Control Board (RWQCB) has permitted TWRF tertiary treated water for spray landscape irrigation, agriculture, and industrial uses, recycled water uses by LVMWD’s customers are almost exclusively for landscape and golf course irrigation within LVMWD’s service area. Historical recycled water deliveries to LVMWD customers since 2016 are shown in Figure 6-8. Recycled water demands peaked in 2020 due to unusually dry and warm conditions during winter months resulting in increased recycled water use during normal periods of low demand. The average demand over the past five years was 4,677 AFY.

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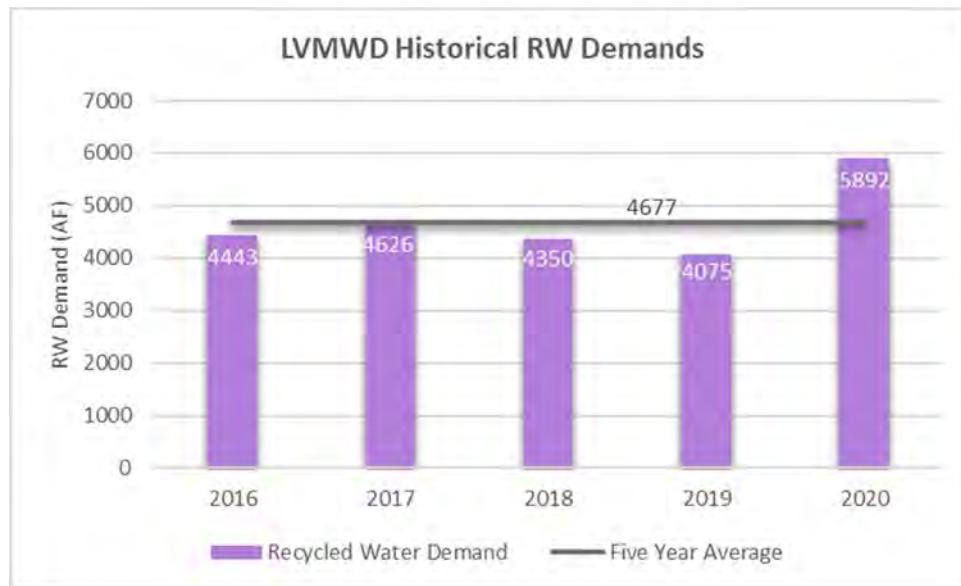


Figure 6-8: LVMWD Historical Recycled Water Demands

Past recycled water planning efforts have been successful in connecting virtually all schools, parks, and golf courses within the service area to the existing recycled water system. LVMWD’s opportunities for expanding the supply of the recycled water system is limited by the wastewater flow from its service area. Opportunities for developing additional recycled water use are also limited as the LVMWD service area is nearly built out. There are small developments that are expected to be built in the upcoming decades, but these developments aren’t anticipated to include larger recycled water users.

Currently, LVMWD expects recycled water uses to decline in the future based on conservation starting FY2023⁵. The district has expanded efforts to encourage conservation of recycled water uses. Efforts include modified rates, imposing penalties for exceedance of water budget, installing advanced meters, and enhancing outreach regarding conservation with existing recycled water customers. LVMWD does not currently have plans to expand the recycle water system. It is anticipated that during months of low recycled water demand, excess water that would normally be disposed of will go to supply the Pure Water Project. For a conservative approach for projecting future recycled water demands in this UWMP, the estimated values in Submittal Table 6-4 reflect the average over the last five years and will remain constant through 2040. LVMWD expects that any new demands that may arise in the future will be for landscape irrigation use.

Submittal Table 6-5 provides a comparison of the projections from the 2015 UWMP to the actual use in 2020.

⁵ Rate Study 2020. Las Virgenes Municipal Water District 2020 Water, Recycled Water, and Sanitation Rate Study, Final Report, December 15, 2020.

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Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area										
<input type="checkbox"/>		Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.								
Name of Supplier Producing (Treating) the Recycled Water:		JPA: LVMWD and TWSD								
Name of Supplier Operating the Recycled Water Distribution System:		JPA: LVMWD, TWSD, CMWD								
Supplemental Water Added in 2020 (volume) <i>Include units</i>										
Source of 2020 Supplemental Water		Groundwater; imported potable water								
Beneficial Use Type	Potential Beneficial Uses of Recycled Water (Describe)	Amount of Potential Uses of Recycled Water (Quantity)	General Description of 2020 Uses	Level of Treatment	2020	2025	2030	2035	2040	2045 (opt)
Landscape irrigation (excludes golf courses)		AFY	Irrigation	Tertiary	5,133	4,075	4,075	4,075	4,075	4,075
Golf course irrigation		AFY	Irrigation	Tertiary	757	601	601	601	601	601
Other (<i>Provide General description</i>)	Commercial	AFY	Dual Plumbed	Tertiary	1	1	1	1	1	1
				Total:	5,892	4,677	4,677	4,677	4,677	4,677
NOTES: Average demand from 2016-2020 is expected to remain constant for 2025 through 2045. Potable Water Supplement for the Recycled Water System in Table 4-1 & Table is included										

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Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual			
		Recycled water was not used in 2015 nor projected for use in 2020. The Supplier will not complete the table below.	
Use Type		2015 Projection for 2020	2020 Actual Use
Agricultural irrigation			
Landscape irrigation (excludes golf courses)		3,771	5,133
Golf course irrigation		483	757
Commercial use			
Industrial use			
Geothermal and other energy production			
Seawater intrusion barrier			
Recreational impoundment			
Wetlands or wildlife habitat			
Groundwater recharge (IPR)			
Surface water augmentation (IPR)			
Direct potable reuse			
Other	<i>Dual Plumbed</i>		1
Total		4,254	5,892
NOTES: 2020 Actual Use includes Potable Water Supplement for the Recycled Water System in Table 4-1.			

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6.2.5.5 Action to Encourage and Optimize Future Recycled Water Use

The 2014 Recycled Water Master Plan evaluated infrastructure improvements needed to reach new customers and address capital facility replacement needs. These improvements would contribute to optimizing existing recycled water use. As noted above, opportunities for developing substantial new recycled water demands are limited and currently the District is encouraging conservation.

Optimizing recycled water use also depends on maximizing use during periods where recycled water supply exceeds demands. This is primarily important in months April through November when excess treated water cannot be discharged to Malibu Creek due to permit restrictions. During these months, one method has been to encourage recycled water customers to practice conservation. By 2030, LVMWD expects its Pure Water Project to be online which will enable excess treated water to be utilized to fill the Las Virgenes Reservoir.

The District and its JPA partner, TWSD have been undertaking an effort for seasonal storage of recycled water, which entails long-range plans to beneficially use all of the JPA's recycled water and to effectively discontinue discharges to Malibu Creek. In July of 2015, a Plan of Action was approved for the effort by the JPA Board of Directors. As a drought response measure, the JPA has been making recycled water available at no cost to residential customers. After attending a brief training, customers may fill up their own sealable containers from the Rancho Las Virgenes Composting Facility and obtain up 300 gallons of recycled water per visit.

Also, the District is in the process of developing the Pure Water Project to further treat and store excess treated recycled water within the Las Virgenes Reservoir. See section 6.2.8.

LVMWD's potable water customer base is primarily residential as shown in Section 4.2.1 in which do not receive recycled water for use. Methods to expand future recycled water use is shown in Submittal Table 6-6.

Submittal Table 6-6 Retail: Methods to Expand Future Recycled Water Use			
☒	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.		
6.2.5.4	Provide page location of narrative in UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use
<i>Add additional rows as needed</i>			
Total			0

6.2.6 Desalinated Water

The California UWMP Act requires a discussion of potential opportunities for use of desalinated water (Water Code Section 10631[h]). LVMWD has evaluated opportunities for using desalinated sea water and desalinated brackish groundwater in future supply options.

Currently, none of the opportunities are practical or economically feasible and the District is not planning to pursue them. Desalination options considered by LVMWD are described below.

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6.2.6.1 Seawater Desalination

It is not considered practical nor economically feasible to implement a seawater desalination program at this time. While located near the Pacific Ocean, in comparison to many other water purveyors, the topography of LVMWD's service area would not be conducive to pumping desalinated water from the ocean. LVMWD may consider an option to provide financial assistance to other retailers and/or team with MWD to provide financial assistance in the construction of other retail water purveyor's seawater desalination facilities in exchange for SWP supplies.

6.2.6.2 Desalinated Brackish Groundwater

Groundwater from the Thousand Oaks Area basin underlying the LVMWD service area is currently delivered to the TWRP for treatment and subsequent use in the recycled water system. These groundwater supplies are characterized by elevated TDS concentrations, reaching as high as 2,800 mg/l in some areas in addition to high iron and manganese concentrations. Currently, a conversion of this groundwater use for potable supplies is not considered a feasible option. No other opportunities for desalination of local brackish groundwater currently exist.

6.2.7 Water Exchanges and Transfers

6.2.7.1 Exchanges

As mentioned in Chapter 2, LVMWD and Calleguas Municipal Water District (CMWD) are in the process of constructing a joint interconnection between their potable water systems. The interconnection will enable delivery of potable water from one agency to the other if imported water supply are interrupted and would enable LVMWD to receive water from CMWD to support winter refill of the Las Virgenes Reservoir. Based on a Memorandum of Agreement it is anticipated to enable the exchange of approximately 870 AFY and will allow LVMWD to fill the Las Virgenes Reservoir by an additional 1,300 AFY. Currently, an agreement regarding operations is still pending. Furthermore, this additional water could serve as an alternative to purchasing water from MWD during summer months. Overall, this interconnection will increase reliability of the potable water systems for both agencies.

6.2.7.2 Transfers

No transfers are currently planned.

6.2.7.3 Emergency Interties

During planned and unplanned MWD outages, LVMWD also utilizes an interconnection to the Los Angeles Department of Water and Power (LADWP), which was enabled through an agreement with MWD and LADWP. LADWP provides supply at two distinct connections, one at Kittridge Street and one at Germain Street. Imported supplies from MWD presented in this UWMP include water supplied through three connections to the MWD system and the LADWP connections.

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6.2.8 Future Water Projects

LVMWD updated its Integrated Water System Master Plan in 2014 (IWSMP)⁶. Analysis of the potable water system resulted in recommended improvements including piping, storage, and pumping improvements to enhance system operations and reliability.

With the implementation of the projects outlined in the IWSMP, LVMWD will improve its potable water infrastructure to provide more reliable potable water services, but these projects are not expected to increase supplies or result in new supplies. As a result, no planned supplies are shown in supply projection tables.

Most of the potential for growth in recycled water demand stems from extensions to the existing recycled water system and conversion of existing potable water demand to recycled use⁷. Currently, LVMWD does not expect any growth in recycled water demand into the future.

As mentioned previously, the Pure Water Project is being developed by the District in which excess tertiary treated recycled from TWRP, that normally would be disposed of during months of low recycled water demand, will go through further advance water treatment methods to reach drinking water standards. This advanced treated water will be blended and stored within the Las Virgenes Reservoir and treated further at the WFP prior to distribution in the potable water system.

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs						
☒	No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.					
	Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.					
6.2.8	Provide page location of narrative in the UWMP					
Name of Future Projects or Programs	Joint Project with other suppliers?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type <i>Drop Down List</i>	Expected Increase in Water Supply to Supplier <i>This may be a range</i>
	<i>Drop Down List (y/n)</i>	<i>If Yes, Agency Name</i>				
NOTES:						

⁶ Kennedy/Jenks Consultants. 2014a. Integrated Master Plan Update 2014. Prepared for the Joint Powers Authority of LVMWD and TWSD with assistance from HDR. June 2014.

⁷ HDR. 2014. Recycled Water Master Plan Update 2014. Prepared for Joint Powers Authority of LVMWD, TWSD, and CMWD. June 2014.

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6.2.9 Summary of Existing and Planned Sources of Water

6.2.9.1 Description of Supplies

As mentioned previously, the District relies on four sources for water supply that have been developed to provide increased water reliability and efficient water use to help meet the water demand of the LVMWD service area into the future. The existing and planned sources of water within the LVMWD service area is as follows:

- During 2020, Imported potable water accounted for 78 percent of total supply for LVMWD. The largest imported supply is from MWD. The District also purchases water from Ventura County Waterworks District's (VCWWD No. 17) and (VCWWD No. 8) and has a connection to the City of Los Angeles.
- During 2020, Recycled water from the Tapia Water Reclamation Facility (TWRF) accounted for 22 percent of supply to the District.
- Groundwater from the Thousand Oaks Area Basin is only used to supplement the recycled water supplies and is not accounted for directly in Table 6-9.

LVMWD has developed these water resources to provide increased water reliability and efficient water use to help meet the water demand of the LVMWD service area into the future.

6.2.9.2 Quantification of Supplies

Submittal Table 6-8 shows the actual water supplied to the LVMWD system for each supply source in 2020.

Submittal Table 6-8 Retail: Water Supplies — Actual				
Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield (optional)
<i>Add additional rows as needed</i>				
Purchased or Imported Water	MWD	20,392	Drinking Water	
Purchased or Imported Water	Ventura County Waterworks 8	39	Drinking Water	
Purchased or Imported Water	Ventura County Waterworks 17	102	Drinking Water	
Purchased or Imported Water	City of Los Angeles	284	Drinking Water	
Recycled Water	TWRF	5,560	Recycled Water	
Total		26,709		0

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NOTES: Recycled Water Supply does not include 332 AFY of Potable Water Supplement to the Recycled Water System as shown in Table 4-1

Submittal Table 6-9 shows projected supplies for each supply source for 2025 to 2045. Projected supplies are based on the difference in reliable volumes of local supplies and projected demands in Section 4.2.6 yielding a required imported water volume. Imported water projections are based on the information derived from the reliability of MWD's supplies discussed in Section 7.2.

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Submittal Table 6-9 Retail: Water Supplies — Projected						
Water Supply	Additional Detail on Water Supply	Projected Water Supply <i>Report To the Extent Practicable</i>				
<i>Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool</i>		2025	2030	2035	2040	2045 (opt)
		Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume	Reasonably Available Volume
Purchased or Imported Water		19,190	17,146	18,263	19,444	20,692
Supply from Storage	Pure Water Project - Las Virgenes Reservoir	0	3,100	3,100	3,100	3,100
Recycled Water		3,995	3,995	3,995	3,995	3,995
Total		23,185	24,241	25,358	26,539	27,787
NOTES: Recycled Water Supply includes Potable Water Supplement and Groundwater Supplement. Purchased or Imported Water is set equal to total potable water demand from Table 4-2 less Potable Water Supplement. Source water is expected to be reliable during normal, single-dry year, and extended drought periods into the future.						

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6.2.10 Special Conditions

6.2.10.1 Climate Change Impacts

It is difficult to quantify what affect climate change will have on supplies to the District, but it is expected that supply will be negatively impacted. For local production, increased evaporation, increased temperature, and a decrease in annual precipitation may increase losses at the Las Virgenes Reservoir and may reduce surface water from infiltrating into groundwater basins resulting in lower groundwater levels. These impacts may be felt statewide and may also have a negative impact on imported water supplies to the District. Considerations from climate change are discussed in Section 4.5.

6.2.10.2 Regulatory Conditions

Imported water: Regulatory conditions that could affect imported water supply to LVMWD service include any change in allocation either directly from MWD or other Ventura County suppliers. Since MWD has a contract allocation to obtain water from the SWP and the Colorado River, any changes to these contracted sources can influence the supply available to LVMWD. Also, during periods of reduced water measures or drought, MWD could implement Water Shortage Action Plans that could affect supply. Future projects such as expanded storage capacity or conveyance facilities implemented by MWD can provide additional capacity to their water systems which may strengthen the reliability of the of the supply to LVMWD.

Groundwater: There are no defined legal pumping rights for LVMWD within the Thousand Oaks Area Basin. LVMWD has not adopted a groundwater management plan, and no regional groundwater management plan currently exists for the Basin. See section 6.2.2.3.

Recycled Water: Recycled water supply is regulated by the State Title 22 requirements. Any change in the State law applicable to the production, distribution and disposal of recycled water may influence the supply produced at the TWRP.

6.2.10.3 Other Local Applicable Criteria

6.3 Submittal Tables Completion Using the Optional Planning Tool

The Optional Planning Tool was not used in this UWMP.

6.4 Energy Intensity

Per Water Code 10631.2. (a) an UWMP shall include, to the extent possible, an estimate of energy used to extract, divert, convey, treat, and distribute water supplies. Estimated energy consumption and Estimated Energy Intensity for groundwater extraction, pumping, pressure reducing, and storage for the LVMWD potable water system for 2020 was not available at the time of this UWMP.

Chapter 7: Water Service Reliability and Drought Risk Assessment

7.1 Water Supply Reliability and Drought Risk Assessment

The UMWP requires urban water suppliers to assess water supply reliability and compare total projected water use with the expected water supply over the next twenty years in five-year increments. The UWMP also requires an assessment for a single dry year and five consecutive dry years. This chapter presents the reliability assessment for LVMWD service area.

It is the goal of LVMWD to deliver a reliable and high-quality water supply for customers, even during dry periods. Based on conservative water supply and demand assumptions over the next 25 years, in combination with conservation of non-essential demand during certain dry years, the UWMP successfully achieves this goal.

7.2 Water Supply Reliability Assessment

7.2.1 Constraints on Water Sources and Response Programs

Two of the most significant constraints on water supply for LVMWD and for Southern California has been the drought that started in 2012 and persisted for parts of California into 2019, and Sacramento-San Joaquin River Delta ecosystem issues that affect imported water supply from the State Water Project. The water conditions that the region faced in 2020 were shaped by supply conditions and are summarized below⁸:

- MWD basins have historically experienced large swings in annual hydrologic conditions; however, these swings have largely been buffered through MWD's efforts and large volume of storage.
- Dramatic swings in annual hydrologic conditions have impacted water supplies available from the State Water Project (SWP) over the last decade. MWD has been building dry-year storage reserves, water banking and transfers have helped manage the wide swings in SWP allocations.
- With approximately 30 percent of Southern California's water supply transported across the Bay-Delta, its declining ecosystem has led to reduction in water supply deliveries. Operational constraints will likely continue until a long-term solution to the problems in the Bay-Delta is identified and implemented.
- Water quality challenges, such as algae toxins, PFAS, and the identification of constituents of emerging concern, have a significant impact on the region's water supply conditions and underscore the importance of flexible and adaptive regional planning strategies. See more details below.

7.2.1.1 Water Quality

This section provides a general description of the water quality of the supplies delivered by the District. The District is committed to providing its purveyors with high quality water meeting all federal and state primary drinking water standards. The sources of drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it

⁸ MWD Final Draft 2020 UWMP

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dissolves naturally occurring minerals and various contaminants. In some cases, the presence of animals or human activity can contribute to the constituents in the source waters. The District continues to maintain high standards in their effort to provide a reliable water source. More information is provided in the LVMWD 2019 Water Quality & Consumer Confidence Report.

7.2.2 Year Type Characterization

The below scenarios are used to report the characteristics of water supplies during the year types required for the water service reliability assessment. Below are the three-year types included:

- **Normal Year.** This condition represents the water supplies a Supplier considers available during normal conditions. This could be a single year or averaged range of years that most closely represents the average water supply available to the Supplier. In this Guidebook, DWR uses the terms average and normal interchangeably when addressing the water year type.
- **Single Dry Year.** The single dry year is the year that represents the lowest water supply available to the Supplier.
- **Five-Consecutive-Year Drought.** The five-consecutive year drought for the DRA would be the driest five-year historical sequence for the Supplier (Water Code Section 10612). For the water service reliability assessment, Suppliers are encouraged to use the same five-year sequence for their water service reliability assessment. However, they may choose to use a different five-consecutive year dry period such as the lowest average water supply available to the Supplier for five years in a row. Suppliers are encouraged to characterize the five-consecutive year drought in a manner that is best suited for understanding and managing their water service reliability.

7.2.2.1 MWD Reliability by Type of Year

In their 2020 UWMP dated June 2021, MWD estimated supply capability and projected demands for a normal year based on an average of hydrology analysis for the years 1922-2017; for a single dry-year based on a repeat of the hydrology in the year 1977; and for five consecutive years of 1988 to 1992. These estimates are summarized in Tables 2-3, 2-5, and 2-6 of their 2020 UWMP, which are included in Appendix G of this report for reference.

MWD 2020 UWMP Table 2-4 summarizes the sources of supply for the single dry year (1977 hydrology). MWD 2020 UWMP Table 2-5 provides results for the average of the five consecutive dry years. These tables show that the region can provide reliable water supplies under both the single driest year and the multiple dry year hydrologies. MWD Table 2-6 reports the expected situation on the average over all historic hydrologies from 1922-2017.

A summary of the information provided in MWD Tables 2-3, 2-5, and 2-6 is shown in Table 7-A. For each of these scenarios there is a projected surplus of supply in every forecast year. Projected supply surpluses, based on the capability of current supplies, range from 0.1 percent to 87 percent of projected demands. With the inclusion of supplies under development, potential surpluses range from 5 percent to 110 percent of projected demands. MWD's supply capabilities are discussed further in their 2020 UWMP. MWD's likelihood of having adequate supply capability to meet projected demands, without implementing the Water Supply Allocation Plan (WSAP), is dependent on its storage resources.

Submittal Table 7-A Retail: MWD Supply Capability and Projected Demands (AFY)					
Single Dry Year MWD Supply Capability and Projected Demands (1977 Hydrology)					
	2025	2030	2035	2040	2045 (Opt)

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Capability of Current Programs	2,727,000	2,791,000	2,789,000	2,551,000	2,572,000
Projected Demands	1,402,000	1,387,000	1,408,000	1,431,000	1,457,000
Projected Difference	1,325,000	1,404,000	1,381,000	1,120,000	1,115,000
Projected Surplus % ^(a)	49%	50%	50%	44%	43%
Supplies under Development	0	0	0	0	0
Potential Surplus	1,325,000	1,404,000	1,381,000	1,120,000	1,115,000
Potential Surplus % ^(a)	49%	50%	50%	44%	43%
Drought Lasting Five Consecutive Water Years MWD Supply Capability and Projected Demands (1922-2017 Hydrology)					
	2025	2030	2035	2040	2045 (Opt)
Capability of Current Programs	2,198,000	2,210,000	2,209,000	1,973,000	1,995,000
Projected Demands	1,412,000	1,414,000	1,435,000	1,457,000	1,484,000
Projected Difference	786,000	796,000	774,000	516,000	511,000
Projected Surplus % ^(a)	36%	36%	35%	26%	26%
Supplies under Development	10,000			235,000	213,000
Potential Surplus	796,000	796,000	774,000	751,000	724,000
Potential Surplus % ^(a)	36%	36%	35%	38%	36%
Average Year MWD Supply Capability and Projected Demands (1922-2017 Hydrology)					
	2025	2030	2035	2040	2045 (Opt)
Capability of Current Programs	3,932,000	3,962,000	3,960,000	3,598,000	3,622,000
Projected Demands	1,274,000	1,256,000	1,273,000	1,294,000	1,319,000
Projected Difference	2,658,000	2,706,000	2,687,000	2,304,000	2,303,000
Projected Surplus % ^(a)	68%	68%	68%	64%	64%
Supplies under Development	47,000	13,000	13,000	372,000	347,000
Potential Surplus	2,705,000	2,719,000	2,700,000	2,676,000	2,650,000
Potential Surplus % ^(a)	69%	69%	68%	74%	73%

All storage capability figures shown in Metropolitan's 2020 UWMP reflect actual storage program conveyance constraints. It is important to note that under some conditions, Metropolitan may choose to implement the WSAP in order to preserve storage reserves for a future year, instead of using the full supply capability. This can result in impacts at the retail level even under conditions where there may be adequate supply capabilities to meet demands.

7.2.3 Water Service Reliability

Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years.

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Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment)			
Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2019-2020, use 2020	Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location _____
		<input checked="" type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available *	% of Average Supply
Average Year	2020	23185	100%
Single-Dry Year	1977	25488	112%
Consecutive Dry Years 1st Year	1988 to 1992	25488	112%
Consecutive Dry Years 2nd Year	1988 to 1992	25488	112%
Consecutive Dry Years 3rd Year	1988 to 1992	25680	113%
Consecutive Dry Years 4th Year	1988 to 1992	25680	113%
Consecutive Dry Years 5th Year	1988 to 1992	25872	114%
<p><i>Supplier may use multiple versions of Table 7-1 if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a Supplier uses multiple versions of Table 7-1, in the "Note" section of each table, state that multiple versions of Table 7-1 are being used and identify the particular water source that is being reported in each table.</i></p> <p>*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</p>			
NOTES:			

7.2.3.1 Water Service Reliability – Normal Year

Assumptions about supplies and demands are provided in Chapters 4 and 6. Table 7-2 demonstrates that LVMWD anticipates adequate supplies for years 2025 to 2045 under Normal conditions.

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison					
	2025	2030	2035	2040	2045 (Opt)

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Supply totals (autofill from Table 6-9)	23,185	24,241	25,358	26,539	27,787
Demand totals (autofill from Table 4-3)	23,185	24,241	25,358	26,539	27,787
Difference	0	0	0	0	0
NOTES:					

7.2.3.2 Water Service Reliability – Single Dry Year

LVMWD’s water supplies and demands over the 25-year planning period were analyzed in the event that a single-dry year occurs, similar to the drought that occurred in the recent 10 years. Table 7-3 summarizes the existing and planned supplies available to meet demands during a single-dry year. Demand during dry years was assumed to increase by 12 percent over the average water year, based the highest increase above the normal year between two years over the last 10-year period. This percentage was applied to the imported water supply values.

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison					
	2025	2030	2035	2040	2045 (Opt)
Supply totals*	25,488	26,298	27,549	28,872	30,270
Demand totals*	25,488	26,298	27,549	28,872	30,270
Difference	0	0	0	0	0
<i>*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>					
NOTES:					

7.2.3.3 Water Service Reliability – Five Consecutive Dry Years

The water supplies and demands for the LVMWD service area over the 25-year planning period were also analyzed in the event that a five consecutive dry year event occurs. Water systems are typically more vulnerable to these dry conditions of longer duration because they deplete water storage reserves in local and state reservoirs and in groundwater basins. Table 7-4 summarizes the existing and planned supplies available to meet demands during multiple-dry years. Demand during multiple-dry year conditions was assumed to increase by 14 percent over average water conditions, by the fifth year of dry conditions. This percent increase is based on the highest five-year period increase over the last five-year period.

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Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison						
		2025*	2030*	2035*	2040*	2045* (Opt)
First year	Supply totals	25,488	26,298	27,549	28,872	30,270
	Demand totals	25,488	26,298	27,549	28,872	30,270
	Difference	0	0	0	0	0
Second year	Supply totals	25,488	26,298	27,549	28,872	30,270
	Demand totals	25,488	26,298	27,549	28,872	30,270
	Difference	0	0	0	0	0
Third year	Supply totals	25,680	26,470	27,732	29,066	30,477
	Demand totals	25,680	26,470	27,732	29,066	30,477
	Difference	0	0	0	0	0
Fourth year	Supply totals	25,680	26,470	27,732	29,066	30,477
	Demand totals	25,680	26,470	27,732	29,066	30,477
	Difference	0	0	0	0	0
Fifth year	Supply totals	25,872	26,642	27,915	29,261	30,684
	Demand totals	25,872	26,642	27,915	29,261	30,684
	Difference	0	0	0	0	0
<i>*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>						
NOTES:						

7.3 Supply and Demand Assessment

Approximately 78 percent of LVMWD’s planned water supply comes from MWD. Based on MWD’s 2020 UWMP Update, it was determined MWD has sufficient supply through a drought period that lasts five consecutive water years and this is reflected in LVMWD’s analysis.

2020 URBAN WATER MANAGEMENT PLAN FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

7.3.1 Data Methods, and Basis for Water Shortage Condition

LVMWD attends regular meetings with MWD staff. MWD will continue their ongoing WSDM supply-demand tracking process which is compiled into a monthly Board of Directors reporting. LVMWD will continue to track MWD reporting tools. MWD anticipates presenting a completed Annual Assessment by June of each year. This assessment can also trigger any recommended shortage stage. LVMWD will need to use the information provided by MWD to prepare their Annual Assessment which will be submitted to DWR annually by July 1 beginning in 2022.

7.3.2 DRA Water Source Reliability

For retail suppliers, information on supply reliability can be obtained from each Wholesale Supplier for water source reliability assessment. LVMWD would rely upon MWD’s DRA Water Source Reliability. Per the MWD’s 2020 UWMP Update, MWD’s core water supplies include estimated water supplies from the Colorado River and the State Water Project (SWP) for the current year. Imported core supplies vary from year to year and are influenced by annual weather and hydrology, as well as demand by other higher priority users and operational and regulatory factors.

Table A.4-3
Core Water Supplies

Source	Core Supply
Colorado River	Colorado River Basic Apportionment Higher Priority Water Use Adjustment to Colorado River Basic Apportionment IID/MWD Conservation Program PVID Following Program (minimum) Lower Colorado Water Supply Project Exchange with SDCWA (SDCWA/IID Transfer and Coachella & All-American Canal Lining) Exchange with the United States (Coachella Canal Lining)
State Water Project	MWD SWP Table A SWP Article 21 Interruptible Supplies SWP Port Hueneme Lease of Ventura Table A
In-Region	San Gabriel Valley Municipal Water District Program

Figure 7-1 MWD 2020 UWMP Core Water Supplies

7.3.3 Total Water Supply and Use Comparison

MWD’s supply capability and projected demands are presented in Table 7-A. Based on the MWD’s 2020 UWMP Update, it is anticipated LVMWD will have sufficient supplies to meet their demands.

Chapter 8: Water Shortage Contingency Plan

As part of its UWMP, Water Code Section 10632 requires Suppliers to prepare and adopt a Water Shortage Contingency Plan (WSCP). The WSCP aligns with the MWD WSCP to ensure continuity, collaboration, and efficiency. The WSCP also draws upon lessons learned from the 2012-2016 drought, California's driest period on record. The following discussion presents the various stages and basis for implementation.

8.1 Water Supply Reliability Analysis

The primary source of water supply for LVMWD has been water imported from MWD. The imported water is primarily treated water from the Sacramento-San Joaquin River Delta in Northern California, which is conveyed via State Water Project (SWP) facilities. In 2020, LVMWD supplied a total of 20,533 AF from imported water purchased from MWD, which was 77 percent of the total water supply including recycled water. Groundwater and recycled water are discussed further in Chapter 4.

8.2 Annual Water Supply and Demand Assessment Procedures

As an urban water supplier, LVMWD must prepare and submit an Annual Water Supply and Demand Assessment. The following information provides the procedures LVMWD will undertake to complete and approve the Annual Assessment.

8.2.1 Decision-Making Process

MWD will prepare their Annual Assessment by the month of June and present to their Board of Director's. This presentation will also include appropriate triggers for recommendations regarding specific shortage response actions as a result of the assessment. LVMWD will utilize the information provided by MWD to prepare their Annual Assessment to be presented to their Board of Directors for approval and submission to DWR by July 1.

8.2.2 Data and Methodologies

The following provides a description of the key data inputs and methodologies that will be used in the Annual Assessment.

Evaluation Criteria

LVMWD will utilize the MWD Annual Assessment process and monthly WSDM supply-demand reporting to evaluate for their annual assessment for imported water supplies. MWD will monitor emerging supply and demand conditions throughout the year and take appropriate actions consistent with the flexibility and adaptability inherent to the Water Shortage Contingency Plan.

Water Supply

LVMWD receives approximately 78 percent of their water supply from MWD. LVMWD will rely upon MWD's evaluation of water supply sources as part of their annual water supply and demand assessment procedures for imported water supplies.

Unconstrained Customer Demand

LVMWD will need to evaluate expected water needs for the coming year or “unconstrained demand” per the Water Code Section 10632. It is anticipated customer water use will be evaluated based on billing records as used in Chapter 4 analysis.

Planned Water Use for Current Year Considering Dry Subsequent Year

LVMWD will evaluate anticipated supplies for the coming year, while anticipating that the following year will be dry. LVMWD will continue to review MWD’s planned water supplies for making decisions involving water shortage responses.

Infrastructure Consideration

Throughout each year, LVMWD and MWD regularly carry out preventive and corrective maintenance of facilities. MWD plans and performs shutdowns to inspect and repair pipelines and facilities and support capital improvement projects. These shutdowns involve a high level of planning and coordination within MWD, as well as with member agencies, other affected organizations, contractors, and the community. For LVMWD planned outages, they will bring Westlake Filtration Plant online to supply the west end of the District’s service area and connect to LADWP (Kittridge + Germain) to supply the east end during planned maintenance periods.

8.3 Six Standard Water Shortage Stages

As required by CWC §10632(a)(3)(A), the WSCP is framed around six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40, and 50 percent shortages and greater than 50 percent shortage. Urban water suppliers shall define these shortage levels based on the suppliers’ water supply conditions, including percentage reductions in water supply, changes in groundwater levels, changes in surface elevation or level of subsidence, or other changes in hydrological or other local conditions indicative of the water supply available for use. Shortage levels shall also apply to catastrophic interruption of water supplies, including, but not limited to, a regional power outage, an earthquake, and other potential emergency events.

In 2016, LVMWD created a WSCP that established four stages of escalating response to a water shortage caused by droughts and/or emergencies. Each stage may be triggered by a declaration from federal or state authorities, MWD, or LVMWD to address events that result in a water shortage. The stages and description are summarized in Table 1 and matched to the six standard UWMP shortage levels.

Table 8-1. Water Shortage Contingency Plan Comparison

Shortage Level	Percent Shortage Range	Shortage Level	Percent Supply Reduction	Water Supply Condition
1	Up to 10%	1 Water Shortage Alert	0 to 10%	Stage 1 is a condition resulting in a 0 to 10% water shortage necessitating a voluntary water use reduction. The District will initiate a public information campaign to increase awareness of water conservation measures specified in the Administrative Code Section 3-4.404. Customers are expected to perform voluntary water use reductions and adhere to on-going water conservation measures.
2	Up to 20%	2 Water Shortage Warning	10-20%	Stage 2 is a condition resulting in a 10 to 20% water shortage necessitating a higher level of voluntary water use reduction. The District will expand the public information campaign and step up enforcement of water conservation measures. Customers are expected to re-double voluntary water use reductions and strictly adhere to water conservation measures
3	Up to 30%	3 Water Shortage Emergency	20-50%	Stage 3 is a condition resulting in a 20 to 50% water shortage necessitating mandatory water use reductions. Depending on the severity of the shortage, the District will intensify the public information campaign and expand enforcement of water conservation measures. Additionally, the Board will determine the appropriate drought factor for water budgets if necessary.
4	Up to 40%	4 Critical Water Shortage Emergency	>50%	Stage 4 is a condition resulting in a 50% or higher water shortage necessitating prohibition of outdoor water use for irrigation, pools and fountains. The District will implement crisis communications and activate its Emergency Operations Center. Customers shall be required to terminate all outdoor use except as necessary to protect public health and safety. Additionally, the Board will determine reduction in indoor water budgets if necessary.
5	Up to 50%			
6	>50%			

8.4 Shortage Response Actions

The following section specifies the types of shortage response actions that may be undertaken before and during a shortage declaration. Note that shortage response actions will align with and are in part dictated by MWD. The table below provides a summary of the shortage stage and the suite of response actions MWD and LVMWD may take.

Table 8-A. Shortage Stages and Response Actions

Shortage Stage	Shortage Percentage	Response Actions		
		Trigger	Actions	Shortage Met
1	Up to 10%	<ul style="list-style-type: none"> Federal, state or local disaster declaration that may impact water supplies State or MWD declaration due to drought or system maintenance LVMWD Board of Directors determination Unplanned LVMWD water system maintenance 	<p><u>MWD</u></p> <ul style="list-style-type: none"> Take from storage Execute Flexible Supplies Implement Water Supply Allocation Plan (WSAP) <p><u>LVMWD</u></p> <ul style="list-style-type: none"> Initiate public information campaign with large water users, cities, and County Commence enforcement of conservation measures 	<p><u>MWD</u></p> <ul style="list-style-type: none"> 0 to 100% met by storage 0 to 100% met by Flexible Supplies 0 to 50% of total base demand met by WSAP implementation <p><u>LVMWD</u></p> <ul style="list-style-type: none"> 0 to 20% met by demand reduction 0 to 50% met by water shortage allocation
2	Up to 20%	See Stage 1 triggers. The difference is the severity and/or maintenance repair time.	<p><u>MWD</u></p> <ul style="list-style-type: none"> Take from storage Execute Flexible Supplies Implement Water Supply Allocation Plan <p><u>LVMWD</u></p> <ul style="list-style-type: none"> Initiate public information campaign with large water users, cities, and County Commence enforcement of conservation measures 	<p><u>MWD</u></p> <ul style="list-style-type: none"> 0 to 100% met by storage 0 to 100% met by Flexible Supplies 0 to 50% of total base demand met by WSAP implementation <p><u>LVMWD</u></p> <ul style="list-style-type: none"> 0 to 20% met by demand reduction 0 to 50% met by water shortage allocation
3	Up to 50%	<ul style="list-style-type: none"> Federal, state or local disaster declaration that may impact water supplies State or MWD determination due to drought or significant system failure State outdoor irrigation restriction; and/or MWD Water Supply Allocation Plan (5-50% of baseline allocation) LVMWD Board of Directors determination Unplanned LVMWD water system failure or emergency (Westlake Filtration Plant, Dam and/or Backbone System) 	<p><u>MWD</u></p> <ul style="list-style-type: none"> Take from storage Execute Flexible Supplies Implement Water Supply Allocation Plan <p><u>LVMWD</u></p> <ul style="list-style-type: none"> Take from storage Intensify public information campaign Expand enforcement of conservation measures Implement State and MWD required reductions Provide regular media, city councils, and County briefings Activate emergency connections with mutual aid agencies 	<p><u>MWD</u></p> <ul style="list-style-type: none"> 0 to 100% met by storage 0 to 100% met by Flexible Supplies 0 to 50% of total base demand met by WSAP implementation <p><u>LVMWD</u></p> <ul style="list-style-type: none"> 0 to 100% met by short-term storage (3 months max.) 0 to 20% met by demand reduction 0 to 50% met by water shortage allocation
4	>50%	<ul style="list-style-type: none"> Federal, state or local disaster declaration that may impact water supplies Sacramento to Delta/SWP failure State or MWD determination due to drought or significant system failure LVMWD Board of Directors determination Natural or human-caused catastrophe disrupting delivery of water to, or within the service area Severe LVMWD water system failure (Westlake Filtration Plant, Dam and Backbone System) 	<p><u>MWD</u></p> <ul style="list-style-type: none"> Take from storage Execute Flexible Supplies Implement Water Supply Allocation Plan <p><u>LVMWD</u></p> <ul style="list-style-type: none"> Take from storage Activate Emergency Operations Center and implement crisis plan Implement State and MWD required reductions Install flow restrictors on meters as necessary Terminate potable water supplement to the recycled water system Recall all temporary meters and activate water fill stations 	<p><u>MWD</u></p> <ul style="list-style-type: none"> 0 to 100% met by storage 0 to 100% met by Flexible Supplies 0 to 50% of total base demand met by WSAP implementation <p><u>LVMWD</u></p> <ul style="list-style-type: none"> 0 to 100% met by short-term storage (3 months max.) 0 to 20% met by demand reduction 0 to 50% met by water shortage allocation

8.5 Plan Adoption, Submittal, and Availability

The District WSCP was developed and is included as an Appendix H and shall be made available to its purveyors and any city or county within which it provides water supplies no later than 30 days after adoption. Below is a description of how the WSCP will be adopted, submitted, implemented, and amended. The WSCP may be periodically amended independently of the UWMP, as needed.

The District provided notice of availability of the draft 2020 UWMP and 2020 WSCP in accordance with CWC. A public meeting will be held prior to the adoption of the District's WSCP. The public meeting will provide a platform for cities, counties, and members of the public to comment on the WSCP prior to its adoption. Notice of the public hearing was given to cities and counties within which water is supplied and to the general public.

A public hearing is scheduled to be held at the District Office in May or June 2021 to receive public comments.

Not later than 30 days after filing a copy of its plan with the Department of Water Resources (DWR), the urban water supplier and the DWR shall make the plan available for public review during normal business hours. The adopted 2020 UWMP and WSCP for the OH system will be made publicly available on the District's website <https://www.lvmwd.com/your-water/urban-water-management-plan>.

Chapter 9: Demand Management Measures

In 2018, two important legislative actions were passed that require water agencies to implement additional conservation efforts. AB 1668 and SB 606 build on previous state efforts to make water conservation a way of life in California and create a new foundation for long-term improvements in water conservation and drought planning. These legislative actions will provide the long-term direction of state conservation efforts and will have important implications for the District as we implement conservation programs to achieve the state requirements.

SB 606 and AB 1668 establish guidelines for efficient water use and a framework for the implementation and oversight of the new standards, which must be in place by 2022. In addition to these legislative actions, system water loss legislation under SB-555 also requires urban retail water providers to achieve water loss standards for minimizing system water loss (i.e. pipeline leaks).

In order to assist with the implementation of these directives, they have been collectively included into an implementation framework called *Making Conservation a California Way of Life*. The framework outlines the actions that state agencies will be taking to implement the legislation and their directives.

The purpose of the Demand Management Measures (DMM) section of this UWMP is to describe the DMMs that LVMWD (a) has implemented over the past five years (since 2015) to meet its urban water use reduction targets and (b) plans to implement to meet its urban water use reduction targets. The UWMP Act and Water Code require descriptions of the following DMMs:

- i. Water waste prevention ordinances
- ii. Metering
- iii. Conservation pricing
- iv. Public education and outreach
- v. Programs to assess and manage distribution system real loss
- vi. Water conservation program coordination and staffing support
- vii. Other demand management measures

Narrative descriptions of LVMWD's DMMs are provided below and include conservation measures already in place as well as those that are being considered to improve the efficiency of water use within LVMWD.

9.1 Demand Management Measures for Retail Suppliers

9.1.1 Water Waste Prevention Ordinances

Section 3-4.202 of Article 2 of the LVMWD Administrative Code, addresses penalties for wasteful water use. These penalties were adopted on August 11, 2015, became effective on January 1, 2016, and were amended on March 12, 2019. As described in that section, District customers are not allowed to use water wastefully or negligently and shall not knowingly permit leaks.

Water use budgets are established for each customer of LVMWD. Water use exceeding twice a customer's water budget is considered a waste of water and a violation subject to escalating

administrative penalties, as described in Section 3-4.202 and summarized in the table below. Water budgets are described under Section 9.1.3.

Table 9-1: Waste Water Penalties	
Violation Level	Penalties or Charges
First Violation	The customer shall receive a written warning from LVMWD, with amount of exceedance and notice that further exceedances will result in monetary penalties.
Second Violation	A penalty of \$2.50 per billing unit or portion thereof will be imposed, for water use exceeding twice the customer’s water budget.
Third and Subsequent Violations	A penalty of \$5.00 per billing unit or portion thereof will be imposed, for water use exceeding twice the customer’s water budget.

In addition, mandatory conservation measures and irrigation practices, as required under Section 3-4.404, are listed in Table 9-3.

In August 2015, LVMWD also adopted Resolution No. 2481, which updated the Water Shortage Contingency Plan and is described in more detail in Section 8 – Water Shortage Contingency Plan.

9.1.2 Metering

Currently, all connections within LVMWD’s service area are metered and customers are billed according to the amount of water used. LVMWD will continue to install meters on all new connections, however additional water conservation savings are not foreseeable from this measure.

Installation of Automatic Meter Reading/Automated Metering Infrastructure (AMR/AMI) is planned for the future, which will bring an estimated savings of 1,000 AFY. The AMR/AMI system will assist customers in monitoring their water use, facilitate compliance with water budgets and enhance leak detection.

9.1.3 Conservation Pricing

In an effort to encourage water use reduction, LVMWD implemented a budget-based water billing structure with Resolution No. 2475, adopted on October 26, 2015 (amended by Resolution No. 2542 on November 11, 2018). Each customer is provided with a personalized water budget, which is designed to meet their specific indoor and outdoor water needs.

For residential customers, budgets are based on 1) indoor use 2) outdoor use and 3) special adjustments based on your household needs. The indoor need is based on providing each person in the household with a standard volume of water (California standard is 55 gallons per day per person). Outdoor need is based on irrigated area and local weather and is variable on a monthly basis as weather changes. For commercial customers, individual budgets are based on each customer’s historical usage. Customers are then charged based on their efficiency relative to their budget (by tier). A summary of the tiers, tier descriptions and related 2020 rates for residential, irrigation and commercial customer classes is provided in the Table 9-2.

Table 9-2: Quantity Rates and Tier Level

Tier Name/Description (Residential and Irrigation ^b)		Customer Rates (\$/HCF) ^a
Tier 1	Efficient Indoor (Indoor Water Budget)	\$3.14
Tier 2	Efficient Outdoor (Outdoor Water Budget)	\$3.91
Tier 3	Inefficient (101-150% of Budget)	\$4.58
Tier 4	Excessive (Over 150% of Budget)	\$5.74

In addition to the budget-based commodity charges, District water rates also include a “Readiness to Serve Charge”, which is a fixed rate depending on the meter size, and per unit elevation charges to offset pumping costs. Elevation charges differ by zone, with customers at higher elevations paying higher costs per unit of water.

9.1.4 Public Education and Outreach

9.1.4.1 Public Information Program

LVMWD maintains an intensive outreach commitment to customers regarding water conservation benefits and practices. LVMWD engages in numerous public information programs, including ongoing public tours of district facilities preceded by a presentation on conservation, specialized tours provided to leadership from local cities, state and local elected officials and local environmental groups and their volunteers. LVMWD has a Speaker’s Bureau that provides expert speakers to service clubs, homeowner associations, chambers of commerce and other organizations on a variety of topics, including water conservation, water efficient plant selections, environmental issues and more.

LVMWD utilizes multiple media outlets to encourage water conservation and educate its customers, including social media, its website, cable television, “auto dial” telephone messages, news releases, newsletters, paid ads in local newspapers, and portions of the Water Quality Report dedicated to conservation messages. LVMWD’s General Manager is periodically featured on several television newscasts, a radio program and multiple cable television productions speaking on the topic of water conservation.

The LVMWD website provides a substantial amount of water conservation resources and information. The website includes detailed tips and guidance on conserving water, both indoors and outdoors, including videos on how to check for leaks, irrigate properly, and save water. In addition, the website is used to advertise initiatives to further reduce potable water use. For example, free recycled water is available to customers of LVMWD or Triunfo Water and Sanitation District for irrigation purposes and is advertised on the LVMWD website. Participants can fill up their approved containers every Saturday after attending one training session. However, this program was suspended in 2020 due to the COVID-19 pandemic; there are no concrete plans on when this program will resume. The LVMWD website also advertises that any resident of LVMWD or Triunfo Water and Sanitation District can obtain free compost from the Rancho Las Virgenes Community Composting Facility every Saturday. The soil amendment improves soil conditions and results in reduced watering needs. Additional content includes rebates, water-wise plants, daily watering index, sign-ups for water-wise gardening classes and facility tours and conservation advisories.

LVMWD also publishes a bi-monthly newsletter, “The Current Flow”, which provides LVMWD customers with updates on conservation, rebates, environmental stewardship, easy to use water-saving ideas, landscaping tips and more. The newsletter is mailed to customers and is also available on the LVMWD website and in hard copy at LVMWD. Water conservation information is also included in the LVMWD annual water quality report. Social media outlets, including twitter and Facebook, are also used for public outreach.

At community events occurring throughout the District’s service area, LVMWD promotes awareness of water conservation issues through an informational outreach booth, often accompanied by its mascot “Little Drop.” Among the many of the events where LVMWD has encouraged water conservation are the following:

- Agoura Hills Conservation Summit and Expo
- Agoura Hills Concerts in the Park
- Agoura Hills Public Safety Day
- Bay Laurel Carnival
- Calabasas Pumpkin Festival
- Calabasas Earth Day Celebrations
- Agoura Hills Reyes Adobe Days
- Westlake Village Rotary Street Fair
- Sumac Elementary’ s Fall Festival

Many of these events were cancelled in 2020 but are currently being tentatively scheduled in 2021 by the lead agencies.

Further efforts include the donation of water-topic books and other resources to local libraries, and presentations scheduled at local city council meetings, all of which are carried on public access television. LVMWD also conducts point of purchase advertising in conjunction with its rebate programs.

9.1.4.2 School Education Programs

In addition to reaching out to the general public, LVMWD implements a school education program that includes providing educational materials and instructional assistance. LVMWD’s primary outreach is conducted with Las Virgenes Unified School District, which serves approximately 10,500 students. Additional outreach is made to private schools and home-schooled students. School programs include:

- \$107,000 direct financial support for the LVUSD 4-5 Science Team
- Facility tours for all fourth-grade students and high school science classes (includes bus transportation)
- Educational water conservation performances by “The Story Pirates”
- Annual water conservation student art contest that generates several thousand submissions
- Support for two high school teams participating in the MWD Solar Cup Challenge
- Mentoring outreach to local high schools
- Website section devoted to water conservation targeted to students

9.1.5 Programs to Assess and Manage Distribution System Real Loss

A Water Activity Report, previously called Water Loss Report, was produced for the 2019 calendar year, based on the water system balance methodology established by the American Water Works Association (AWWA) Manual 36. The results showed that LVMWD’s unaccounted water losses (real and apparent losses) are minimal, at approximately two percent for the audited period.

LVMWD regularly utilizes visual inspection of distribution routes and aerial surveys of 8 miles of pipeline traversing rugged terrain to detect leaks.

9.1.6 Water Conservation Program Coordination and Staffing Support

Water conservation is one of the primary methods LVMWD uses to reduce total customer demand. The 2018-20 Comprehensive Water Conservation Plan outlined a number of water conservation programs aimed at reducing wasteful water use, helping customers stay within their water budgets and achieving new and emerging state water conservation regulations. In order to achieve those goals, the District launched several conservation efforts targeting our most wasteful water users and inefficient outdoor water use.

Weather Based Irrigation Controller Giveaway Program

In February 2019, the District launched a program with with Rachio Inc. to provide a full service controller installation program. The program was intended to provide 2,000 smart controllers to customers including a free professional installation. The program was also specifically targeted to wasteful water use customers as defined by those customers that have exceeded 200% of their monthly water budget at least once since the inception of budget-based rates.

As of March 17, 2020, just prior to suspending installations as a result of COVID-19 concerns, 1,746 controllers had been installed for wasteful water use customers and 393 controllers had been installed for non-wasteful customers.

High Water Use Account Review and One-on-One Consultations

Field Customer Service staff provide one-on-one consultations with customers concerned with high water use. The consultation involves review of historic water usage, checks for leaks in the system, and review of irrigation settings.

Since the initiation of these efforts in June 2018, 953 one-on-one consultations have been conducted. The 2018 Conservation Plan set a goal of providing detailed review of at least 200 accounts per year and at least 60 comprehensive one-on-one consultations per year. Future reports will look at whether these consultations are making a difference, and to what degree, with regard to reductions in water use.

Rain Barrel Giveaway Program

In 2018 the District partnered with a local rain barrel provider, Smith Pipe and Supply, to implement a rain barrel voucher program. This program was an overwhelming success. Within hours of notifying customers on our conservation email list, the program was suspended due to overwhelming demand that far exceed the number of rain barrels available. Due to the program being suspended as a result of expense and staff resource available to administer the program, fewer than expected rain barrels were distributed. However, 327 rain barrels were distributed to the initial wave of respondents.

Development of a Landscape Initiative

LVMWD staff performed a comprehensive review of landscape conservation programs throughout the region to find best practices and lessons learned. LVMWD found that programs can be more successful when they take advantage of partnerships and are regional in scale. LVMWD is seeking partners like Tree People to help develop and implement a landscape initiative. This work is ongoing and has not been implemented as of March 2021.

Improved Education and Outreach Efforts

The LVMWD External Affairs staff have increased their focus on education and outreach in the past several years. LVMWD has dramatically increased the number of tours given, with a focus on project-based tours. Additionally, LVMWD has done more outreach at community events across the service area. These efforts enhance awareness and understanding, in addition to building relationships and trust.

LVMWD has also brought water conservation into the classroom. In the fall of 2019, LVMWD, in partnership with Triunfo Water & Sanitation District, provided classroom presentation across six schools in the Oak Park School District. LVMWD held similar presentations with Las Virgenes Unified School Districts’ outdoor education program prior to the COVID-19 pandemic. LVMWD believes this early education will help install water conservation practices and inspire the next generation of water professionals.

9.1.7 Other Demand Management Measures

9.1.7.1 Rebate Programs

LVMWD has been offering and promoting water conservation rebates in coordination with MWD as part of the SoCal WaterSmart rebates program, including the following:

- High Efficiency Toilet (HET)
- High Efficiency Clothes Washer (HECW)
- Weather-Based Irrigation Controller (WBIC)
- Rotating Sprinkler Heads
- Rain Barrel
- Cistern
- Soil Moisture Sensor System
- Premium High-Efficiency Toilets
- Ultra-Low and Zero Water Urinals
- Plumbing Flow Control Valves
- Larch Rotary nozzles
- In-stem Flow Regulators
- Soil Moisture Sensor Systems
- Connectionless Food Steamers
- Air-cooled Ice machines
- Cooling Tower Conductivity Controllers
- Cooling Tower pH Controllers
- Dry Vacuum Pumps
- Laminar Flow Restrictors
- Turf Removal

Table 9-3 provides a summary of conservation rebates provided between 2010 and 2015.

Table 9-3: Conservation Rebates Between 2015 and 2020	
Rebate Type	Number of Rebates Provided
Residential Conservation Rebates	

High Efficiency Clothes Washer	583
Premium High Efficiency Toilet	54
High Efficiency Toilet	468
Cistern	3
Rain Barrel	221
Rotating Nozzle	1,225
Weather Based Irrigation Controller (WBIC)	381
WBIC Large Landscape (1+ acre)	34
WBIC Direct Install	2,073
WBIC Large Landscape (1+ acre) Direct Install	18
Turf Removal (sq. ft)	1,265,053
Commercial Conservation Rebates	
Cooling Tower pH Controller	3
Cooling Tower Conductivity Controller	1
Premium High Efficiency Toilet	10
High Efficiency Toilet	1
Flow Control Valves (Faucet/Shower)	1,105
Rotating Nozzle	1,071
Weather Based Irrigation Controller	147
Zero Water Urinal	12

9.2 Implementation over the Past Five Years

The District prepares the Comprehensive Water Conservation Plan every two years as a way to track and report on conservation efforts and water use patterns and proposed plans for the future. Implementation over the past five years is provided in the 2018-20 and 2020-22 reports.

9.3 Planned Implementation to Achieve Water Use Targets

Going forward, LVMWD will continue implementation of the DMMs described above. However, the extent and details of implementation may be modified. It is important to note that severe drought conditions, statewide reduction mandates and wholesale agency use restrictions have led LVMWD to considerably intensify their water conservation program efforts, including significantly increased public outreach and education. As a result, economic factors including feasibility and cost-effectiveness will be taken into account to evaluate future implementation and possible modifications to LVMWD’s water conservation program. Overall, these programs will assist LVMWD in achieving its SBX7-7 2020 target as described in this UWMP. Based on the LVMWD 2020-22 Comprehensive Water Conservation Plan, the District will continue to focus on the following seven efforts:

- Weather Based Irrigation Controller Cost Share Program
- Improved Tracking of Water Use and Conservation Effectiveness (New)

- High Water Use Account Review and One-on-One Customer Consultations
- Rain Barrel Incentive Program
- Regional Landscape Conversion and Conservation Initiative
- Water Loss Prevention Program (New)
- Education and Outreach Efforts

9.4 Water Use Objectives

Water Code requires that Suppliers develop new water use objectives that are based on specific standards for certain water use sectors. These water use objectives will not be developed until 2023, and the first report will require information on what DMMs Suppliers will implement to meet their objectives. As such, each Supplier is encouraged to consider aligning conservation management actions and the changing urban use patterns in order to consider these future obligations.

Chapter 10: Plan Adoption, Submittal, and Implementation

Plan Adoption, Submittal, and Implementation. Suppliers may use this section to describe and document the steps taken to make its UWMP publicly available, as well as the steps taken to adopt and submit its UWMP in accordance with the Water Code. This chapter can also describe the Supplier’s plan to implement the UWMP.

Since 2015, the public processes for completing the UWMP have not been revised. However, the Water Shortage Contingency Plan is a new component of the 2020 UWMP that can be amended separately from the UWMP (see Chapter 8).

10.1 Inclusion of all 2020 Data

The 2020 UWMP consists of water use and planning data for FY2020. The District is reporting on a fiscal year basis.

10.2 Notice of Public Hearing

A public meeting will be held prior to the adoption of the District’s UWMP. The public meeting will provide a platform for cities, counties, and members of the public to comment on the UWMP prior to its adoption. Notice of the public hearing was given to cities and counties within which water is supplied and to the general public. Copies of all public notices will be included in Appendix A.

10.2.1 Notification to Cities and Counties

Table 10-1 provides a summary of cities and counties that were provided with both the 60-Day Notice and Notice of Public Hearing by email.

Submittal Table 10-1 Retail: Notification to Cities and Counties		
City Name	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
City of Agoura Hills	Yes	
City of Calabasas	Yes	
City of Hidden Hills	Yes	
City of Malibu	Yes	
City of Simi Valley Waterworks District No. 8	Yes	

City of Westlake Village	Yes	
County Name <i>Drop Down List</i>	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Los Angeles County	Yes	
Ventura County	Yes	
NOTES:		

10.2.2 Notice to the Public

Prior to holding the public hearing and adoption meeting for this UWMP, two Notices of Public Hearing will be published in a local newspaper, with at least five intervening days between each notice. Copies of the public notices will be included in Appendix B.

10.3 Public Hearing and Adoption

As part of the public hearing, the District will provide information on their baseline values, water use targets, and implementation plan required in the Water Conservation Act of 2009. The public hearing on the UWMP will take place before the adoption of the UWMP, which will allow the District the opportunity to modify the UWMP in response to public input before adoption. A public hearing and board adoption is scheduled to be held at the District office in May or June 2021 to receive public comments. The District will formally adopt the UWMP before submitting the UWMP to DWR. A copy of the District’s adoption resolution is included in Appendix C.

10.4 Plan Submittal

The District’s 2020 UWMPs will be submitted to DWR within 30 days of adoption and by July 1, 2021. UWMP submittal will be done electronically through the WUE Data Portal, an online submittal tool that will be updated for 2020 UWMPs and available in adequate time for UWMP submittal.

After the UWMP has been submitted, DWR will review the plan using the provided checklist (Appendix D) and determine whether or not the UWMP addresses the requirements of the Water Code. The DWR reviewer will contact the Supplier as needed during the review process. Upon completion of the Plan review, DWR will issue a letter to the Supplier with the results of the review.

10.5 Public Availability

Not later than 30 days after filing a copy of its plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.

10.6 Amending an Adopted UWMP

If the District amends the adopted UWMP, each of the steps for notification, public hearing, adoption, and submittal will also be followed for the amended plan.

RESOLUTION NO. 2593

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
LAS VIRGENES MUNICIPAL WATER DISTRICT
ADOPTING THE 2020 URBAN WATER MANAGEMENT PLAN**

WHEREAS, Las Virgenes Municipal Water District has completed an update to its 2015 Urban Water Management Plan, including update of the Water Shortage Contingency Plan; and

WHEREAS, Las Virgenes Municipal Water District has conducted a public hearing to solicit community input regarding the plan,

NOW THEREFORE, BE IT RESOLVED by the Board of Directors of Las Virgenes Municipal Water District that the 2020 Urban Water Management Plan, Report #2805.00 is hereby adopted.

PASSED, APPROVED AND ADOPTED this 1st day of June 2021.

Jay Lewitt, President

ATTEST:

Lee Renger Secretary

(SEAL)

APPROVED AS TO FORM:

W. Keith Lemieux
District Counsel



June 1, 2021 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Engineering and External Affairs

Subject : Relief to Specified Customers to Support Rebuilding of Homes Destroyed in Woolsey Fire: Extension of Time

SUMMARY:

On the afternoon of Thursday, November 8, 2018, the Woolsey Fire broke out and quickly spread into the District's service area. Close to 400 homes within the District's service area were destroyed or rendered uninhabitable. The General Manager was authorized to develop a policy to expedite the process and minimize the cost for customers to rebuild their homes. On June 11, 2019, the Board adopted Resolution No. 2557, authorizing the General Manager to provide customers meeting certain criteria with a substantial discount to install a larger 1-inch meter, in place of their existing 3/4-inch meter, to comply with current codes requiring the installation of fire sprinkler systems. The current eligibility deadline is December 31, 2021. Based on direction provided by the Board on May 4, 2021, staff recommends adopt of Resolution No. 2594, which will extend the deadline by one year to December 31, 2022.

RECOMMENDATION(S):

Pass, approve and adopt proposed Resolution No. 2594, granting a one-year time extension for relief provided to specified customers to support rebuilding of homes destroyed by the Woolsey Fire.

RESOLUTION NO. 2594

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT GRANTING AN EXTENSION OF TIME TO PROVIDE RELIEF TO SPECIFIED CUSTOMERS TO SUPPORT REBUILDING OF HOMES DESTROYED BY THE WOOSLEY FIRE

(Reference is hereby made to Resolution No. 2594 on file in the LVMWD's Resolution Book and by this reference the same is incorporated herein.)

FISCAL IMPACT:

Yes

ITEM BUDGETED:

No

FINANCIAL IMPACT:

This action is not expected to result in a significant financial impact to the District.

DISCUSSION:

The Woolsey Fire broke out on the afternoon of Thursday, November 8, 2018, in Ventura County near the Santa Susana Field Laboratory, quickly spreading into the District's service area due to strong Santa Ana winds and a large amount of dry vegetation. Close to 400 homes were destroyed or rendered uninhabitable. On November 11, 2018, the Board declared a state of emergency for the District's service area due to the significant impacts of the Woolsey Fire and authorized actions to support the response and recovery effort. The General Manager was authorized to develop a policy, in coordination with local cities and the Los Angeles County Department of Public Works, to expedite the process and minimize the cost for customers to rebuild their homes.

Effective January 1, 2011, all new one- or two-family dwellings or townhomes are required to be constructed with residential fire sprinklers pursuant to the California Plumbing Code (California Code of Regulations, Title 24, Part 5). Approximately 216 of the homes destroyed in the Woolsey Fire were served through 3/4-inch water meters that may need to be upsized to 1-inch meters for the sole purpose of providing sufficient flow for new residential fire sprinklers. The Las Virgenes Municipal Water District Code prescribes Capacity Fees and Water Conservation Fees that are applicable to customers upsizing their water meters; however, the subject fees can pose a financial hardship for underinsured customers whose homes were destroyed in the Woolsey Fire and who are seeking to rebuild.

On June 11, 2019, the Board adopted Resolution No. 2557, which established a policy to provide customers with a credit for an existing 3/4-inch water meter at the then-current rates for a 1-inch meter to offset the cost of the applicable Construction Fee and Water Conservation Fee, subject to the following conditions and criteria:

- The credit applies only to one- or two-family dwellings or townhomes that were destroyed or rendered uninhabitable by the Woolsey Fire; and
- The replacement dwelling is less than or equal in size to the destroyed dwelling plus 5%, as measured by square footage, and without the addition of accessory units or outbuildings; and
- The customer provides evidence to the satisfaction of the General Manager that his or her insurance will not, or is insufficient to, cover the cost of the subject fees; and
- The customer pays the applicable meter, administration and installation charges pursuant to Section 3-2.205 of the Las Virgenes Municipal Water District Code; and

- The fees for any subsequent upgrade to the meter shall be figured with credit provided for a 3/4-inch meter rather than the larger 1-inch meter; and
- The credit shall be available upon request by an eligible customer through December 31, 2021.

Since adoption of the policy, seven customers have requested a 1-inch meter and paid the deposits at the discounted fee. Of these seven customers, two had submitted plans and were initially denied eligibility due to their proposed replacement dwellings exceeding the five percent limitation by two to four percent. These two customers subsequently re-engineered their homes, so they could fall within the criteria to qualify for relief. The remaining five customers who requested a larger meter, and did not qualify under the policy, paid the fee for a larger meter without receiving a discount. A total of 11 additional customers inquired about the criteria to qualify for the discount but have not yet paid any fees and are still in the planning process to rebuild their homes. Most homes that were destroyed in the fire have not yet been rebuilt either because of delays with receiving building permits from the city or county or because many of the homes were underinsured and the homeowners cannot afford to rebuild.

On April 20, 2021, a customer from Malibu Lake appeared before the Board during public comment and requested relief to receive the discounted fee for a 1-inch meter, even though his home was approximately 150% of the size of its original footprint. The customer had already paid the fee for a larger 1-inch meter and sought a refund for the amount of the discount. Directors Lee Renger and Len Polan requested a future agenda item for the Board to review the policy and discuss the eligibility criteria. On May 4, 2021, the Board received a report on the matter along with additional public comment. After discussing the item, the Board directed staff to return with a resolution to extend the eligibility deadline by 12 months. As a result, staff recommends that the Board adopt Resolution No. 2594 that would extend the eligibility deadline for relief as outlined in Resolution No. 2557 by one year to December 31, 2022.

GOALS:

Provide Excellent Service That Exceeds Customer Expectations

Prepared by: Joe McDermott, Director of Engineering & External Affairs

ATTACHMENTS:

Proposed Resolution No. 2594

RESOLUTION NO. 2594

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT GRANTING AN EXTENSION OF TIME TO PROVIDE RELIEF TO SPECIFIED CUSTOMERS TO SUPPORT REBUILDING OF HOMES DESTROYED BY THE WOOSLEY FIRE

WHEREAS, on the afternoon of Thursday, November 8, 2018, a major wildfire known as the "Woolsey Fire" broke out in Ventura County near the Santa Susana Field Laboratory;

WHEREAS, the fire quickly spread into the District's service area due to low relative humidity, strong Santa Ana winds and a large amount of dry vegetation;

WHEREAS, approximately 397 homes were destroyed or rendered uninhabitable in the District's service area due to the Woolsey Fire;

WHEREAS, on November 9, 2018, Acting Governor Gavin Newsom issued an emergency proclamation for Los Angeles and Ventura counties due to the effects of the Hill and Woolsey fires, which destroyed homes, threatened critical infrastructure and caused the evacuation of residents;

WHEREAS, subsequently, the President and Federal Emergency Management Agency granted California's request for a presidential emergency declaration for direct federal assistance to supplement the state and local emergency response to the major wildfires burning in Ventura, Los Angeles and Butte counties;

WHEREAS, on November 12, 2018, the Board declared a state of emergency for the District's service area due to the significant impacts of the Woolsey Fire and authorized actions to support the response and recovery effort;

WHEREAS, the General Manager was authorized to develop a policy, in coordination with local cities and the Los Angeles County Department of Public Works, to expedite the process and minimize the cost for customers to rebuild their homes;

WHEREAS, effective January 1, 2011, all new one- or two-family dwellings or townhomes are required to be constructed with residential fire sprinklers pursuant to the California Plumbing Code (California Code of Regulations, Title 24, Part 5);

WHEREAS, approximately 216 of the homes destroyed in the Woolsey Fire were served through 3/4-inch water meters that will need to be upsized to 1-inch meters for the sole purpose of providing sufficient flow for new residential fire sprinklers;

WHEREAS, Sections 3-2.206 and 3-2.208 of the Las Virgenes Municipal Water District Code prescribe Capacity Fees and Water Conservation Fees that are applicable to customers upsizing their water meters;

WHEREAS, the subject fees can pose a financial hardship for underinsured customers whose homes were destroyed in the Woolsey Fire and who are seeking to rebuild;

WHEREAS, the relief as described herein was authorized by the Board of Directors and adopted by Resolution No. 2557 on June 11, 2019; and

WHEREAS, on May 4, 2021, staff was instructed to return to the Board with a Resolution that would extend relief to specified customers to support rebuilding of homes destroyed by the Woolsey Fire from the deadline of December 31, 2021 to December 31, 2022.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT AS FOLLOWS:

1. Authorize the General Manager to continue to provide customers with a credit for an existing 3/4-inch water meter at the then-current rates for a 1-inch meter to offset the cost of the applicable Construction Fee and Water Conservation Fee, subject to the criteria outlined in items "a" through "e" of Resolution 2557 with the following modification (to item f):
 - f. The credit shall be available upon request by an eligible customer through December 31, 2022.

PASSED, APPROVED, AND ADOPTED this _____ day of _____, 2019.

Jay Lewitt, President

ATTEST:

Lee Renger, Secretary

(SEAL)

APPROVED AS TO FORM:

W. Keith Lemieux, District Counsel



June 1, 2021 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Engineering and External Affairs

Subject : Calleguas-Las Virgenes Interconnection Project: Approval of Scope Change No. 1

SUMMARY:

On September 15, 2020, the Board accepted a proposal from Cannon Corp Engineering (Cannon) and authorized the General Manager to execute a professional services agreement (PSA), in the amount of \$265,990, for construction management and inspection services for the Calleguas-Las Virgenes Interconnection Project. Due to construction delays, additional time for construction management and inspection services is required to complete the work. Additionally, the contractor has expressed concern with changed soil conditions, so the proposed scope change from Cannon includes geotechnical research to respond to the contractor's concern. Staff reviewed the attached Scope Change No. 1, in the amount of \$61,895, and recommends that the Board authorize the General Manager to approve it for for the Calleguas-Las Virgenes Interconnection Project.

RECOMMENDATION(S):

Authorize the General Manager to approve Scope Change No. 1, in the amount of \$61,895, for Cannon Corp Engineering to provide additional construction management and inspection services for the Calleguas-Las Virgenes Interconnection Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Sufficient funding is available for the work in the adopted Fiscal Year 2020-21 Budget. No

additional appropriation is needed.

DISCUSSION:

The District and Calleguas Municipal Water District (CMWD) own and operate potable water systems that are dependent on imported water supply. Both agencies are subject to scheduled and unscheduled interruptions of water deliveries that can negatively impact their ability to deliver potable water to their respective customers. On March 10, 2015, the District and CMWD entered into an Interconnection Agreement to improve the future reliability of their respective water systems. The proposed interconnection is a cost-effective way to deliver water between the agencies if one were to experience a complete or partial supply interruption that did not significantly affect the other agency. The interconnection would also facilitate filling of Las Virgenes Reservoir during the winter months and expand recycled water service through the construction of new pipeline laterals and service connections.

The District is responsible for the construction of the southern pipeline segment, connecting its system along Lindero Canyon Road near Thousand Oaks Boulevard to a new proposed Pump Station/Pressure Reducing Station (PS/PRS) site at the Los Angeles/Ventura County boundary along Lindero Canyon Road. This section of pipeline is currently being installed along the southbound lanes of Lindero Canyon Road within the City of Westlake Village, from the proposed PS/PRS site southerly to Thousand Oaks Boulevard. The pipeline consists of 4,977 linear feet of 30-inch concrete, mortar-lined and coated, welded steel pipe.

On September 15, 2020, the Board accepted a proposal from Cannon Corp Engineering, in the amount of \$265,990, for construction management and inspection services for the Calleguas-Las Virgenes Interconnection Project. Due to delays in construction, additional time for construction management and inspection services is required to complete the project. The original contract provided 180 calendar days for completion of the work, and an additional 50 calendar days were previously approved due to delays to procure the large-diameter pipe. Based on the contractor's most recent schedule, it is anticipated that the completion of construction will require an additional 50 calendar days beyond the 230 calendar days already authorized. The longer construction duration will require additional construction management and inspection services from Cannon for the project.

Following is a summary of the contractor's delays for construction of the project:

- Additional time needed to procure equipment and materials due to delays associated with the COVID-19 pandemic;
- More time required for to shore and stabilize trenches due to soil conditions;
- Difficulties coordinating large construction equipment within a single lane of traffic on Lindero Canyon Road; and
- Discovery of utility conflicts.

While staff believes that some of these conditions were reasonably foreseeable at the time of bidding, the contractor has been diligent to minimize the overall delays and expedite completion of the project. Cannon has provided very thorough and complete construction management and inspection services, and staff believes the extra time for the services is warranted and will support the consistent and efficient completion of the project. It is anticipated that Scope Change No. 1 will provide enough additional hours to accommodate the remainder of the work for the project, barring any significant additional delay. The extent of

work delineated for Scope Change No. 1 is an estimate and will only be used as required to complete the project. Staff is working closely with the contractor and Cannon to limit the additional time required to complete the work.

The contractor has filed a Notice of Delay due to changed soil conditions with the District. Scope Change No. 1 includes time for geotechnical research to adequately respond to the contractor's concerns. The cost for this investigation and a detailed report is \$5,000, which is included in the overall amount for Scope Change No. 1. The investigation will support a determination on whether some or all of the additional days requested by the Contractor should be granted. Without the additional days being granted, the Contractor is facing the possibility of liquidated damages for not completing the work on time, which could be used to pay for some or all of cost associated with Scope Change No. 1.

GOALS:

Provide Safe and Quality Water with Reliable Services

Prepared by: Oliver Slosser, P.E., Senior Engineer

ATTACHMENTS: