TWAIN HARTE COMMUNITY SERVICES DISTRICT Water & Sewer Committee Meeting

Chair: Gary Sipperley **Co-Chair:** Richard Knudson

THCSD CONFERENCE ROOM 22912 VANTAGE POINTE DR., TWAIN HARTE May 3, 2023 8:00 a.m.

NOTICE: Public May Attend this Meeting In-Person.

The meeting will be accessible via ZOOM for anyone that chooses to participate virtually:

- Videoconference Link: <u>https://us02web.zoom.us/i/82577210252</u>
- Meeting ID: 825 7721 0252
- Telephone: (669) 900-6833

AGENDA

- 1. Review/discuss draft 20-year Vehicle/Equipment Replacement Plan.
- 2. Review/discuss draft Fiscal Year 2023-24 Water Fund Budget, Capital Outlay Plan and projected capital reserve levels.
- 3. Review/discuss draft Fiscal Year 2023-24 Sewer Fund Budget, Capital Outlay Plan and projected capital reserve levels.
- 4. Discuss timing for completion of Water and Sewer Rate Study and proposed Proposition 218 rate increases.
- 5. Discuss procurement of new operations vehicles.
- 6. Discuss new Water Shortage Contingency Plan requirements.
- 7. Adjourn.

HOW TO VIRTUALLY PARTICIPATE IN THIS THIS MEETING

The public can virtually observe and participate in a meeting as follows:

- **Computer**: Join the videoconference by clicking the videoconference link located at the top of this agenda or on our website. You may be prompted to enter your name and email. Your email will remain private and you may enter "anonymous" for your name.
- Smart Phone/Tablet: Join the videoconference by clicking the videoconference link located at the top of this agenda <u>OR</u> log in through the Zoom mobile app and enter the Meeting ID# and Password found at the top of this agenda. You may be prompted to enter your name and email. Your email will remain private and you may enter "anonymous" for your name.
- **Telephone**: Listen to the meeting by calling Zoom at (4669) 900-6833. Enter the Meeting ID# listed at the top of this agenda, followed by the pound (#) key.

* NOTE: your personal video will be disabled and your microphone will be automatically muted.

SUBMITTING PUBLIC COMMENT

The public will have an opportunity to comment before and during the meeting as follows:

- Before the Meeting:
 - Email comments to <u>ksilva@twainhartecsd.com</u>, write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments.
 - Mail comments to THCSD Board Secretary: P.O. Box 649, Twain Harte, CA 95383

• During the Meeting:

 <u>Computer/Tablet/Smartphone:</u> Click the "Raise Hand" icon and the host will unmute your audio when it is time to receive public comment. If you would rather make a comment in writing, you may click on the "Q&A" icon and type your comment. You may need to tap your screen or click on "View Participants" to make icons visible.





Raise Hand Icon: Raise Hand

- <u>Telephone:</u> Press *9 if to notify the host that you have a comment. The host will unmute you during the public comment period and invite you to share comments.
- In-Person: Raise your hand and the Board Chairperson will call on you.

* NOTE: If you wish to speak on an item on the agenda, you are welcome to do so during consideration of the agenda item itself. If you wish to speak on a matter that <u>does not</u> appear on the agenda, you may do so during the Public Comment period. Persons speaking during the Public Comment will be limited to five minutes or depending on the number of persons wishing to speak, it may be reduced to allow all members of the public the opportunity to address the Board. Except as otherwise provided by law, no action or discussion shall be taken/conducted on any item not appearing on the agenda. Public comments must be addressed to the board as a whole through the President. Comments to individuals or staff are not permitted.

MEETING ETIQUETTE

Attendees shall make every effort not to disrupt the meeting. Cell phones must be silenced or set in a mode that will not disturb District business during the meeting.

ACCESSIBILITY

Board meetings are accessible to people with disabilities. In compliance with the Americans with Disabilities Act, those requiring accommodations for this meeting should notify the District office 48 hours prior to the meeting at (209) 586-3172.

WRITTEN MEETING MATERIALS

If written materials relating to items on this Agenda are distributed to Board members prior to the meeting, such materials will be made available for public inspection on the District's website: www.twainhartecsd.com



TWAIN HARTE COMMUNITY SERVICES DISTRICT 20-YR VEHICLE/EQUIPMENT REPLACEMENT PLAN

Adopted: 05/10/2023

	Life	Life																						
	Left	New	FY 23-2	4	FY 24-25	FY 25-26	FY 26-27	FY 27	7-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33	FY 33-34	FY 34-35	FY 35-36	FY 36-37	FY 37-38	FY 38-39	FY 39-40	FY 40-41	FY 41-42	FY 42-43
Water/Sewer (65%/35%)																								
Truck #1 (Ops Mgr) - 2019 Jeep Grand Cherokee	13	15																54,500						
Truck #2 (Utility/Goose/Plow) - 2015 Ford F350	7	15										95,500												
Truck #3 (Utility) - 2023 Ford F350	15	15																			132,000			
Truck #4 (Utility) - 2023 Ford F350 (Utility Bed)	15	15																			132,000			
Truck #5 (Utility) - 2019 Ford F350	11	15														107,500								
Truck #6 (Utility/Goose) - 2018 Chevy 3500	9	15												101,300										
Mini-Excavator - 2016	19	25																						\$ 105,000
Backhoe - 2005	12	30															135,000							
Water/Sewer (50%/50%)																								
Mobile Generator*	5	25								35,000														
Forklift*	14	25																	43,000					
Sewer (100%)																								
Flush Truck - 2022 Ford F600	20	20																						
Vacuum Trailer - 2015 Pipe Hunter	17	25																				273,000		
Fire (100%)																								
C720 (Chief) - 2023 Chevy 1500	15	15																		105,900				
C720A (Chief Coverage) - 2008 Chevy C15*	5	15									16,000													
U721 (Utility) - 2006 GMC Sierra 2500 Diesel	4	15						80	0,000															
E721 (Primary Engine) - 2005 HME SEO 1871	15	25																		1,100,000				
E723 (Primary Engine) - 2014 International	12	20															904,400							
WT721 (Tactical Tender) - 2016 Pierce Intl.	20	25																						
Vehicles not to be Replaced																								
Flush Trailer (Trixie) - 1998 Shamrock	1	25																						
E722 (Reserve Engine) - 1986 Sparton Pumper	1	25																						
CERT FF Rehab - 2007 Intl. 4300 Ambulance	11	25																						
CERT Utility - 2004 Chevy 2500	6	25																						
TOTAL Water			\$	-	\$-	\$ -	\$-	\$	- :	\$ 17,500	\$-	\$ 62,075	\$-	\$ 65,845	\$ -	\$ 69,875	\$ 87,750	\$ 35,425	\$ 21,500	\$-	\$ 171,600	\$-	\$-	\$ 68,250
TOTAL Sewer			\$	-	\$ -	\$ -	\$ -	\$	-	\$ 17,500	\$ -	\$ 33,425	\$ -	\$ 35,455	\$ -	\$ 37,625	\$ 47,250	\$ 19,075	\$ 21,500	\$-	\$ 92,400	\$ 273,000	\$ -	\$ 36,750
TOTAL Fire			\$	-	\$ -	\$-	\$-	\$ 80	0,000	\$-	\$ 16,000	\$-	\$ -	\$ -	\$ -	\$ -	\$ 904,400	\$-	\$-	\$ 1,205,900	\$ -	\$ -	\$-	\$-
DISTRICT GRAND TOTAL			\$	-	\$ -	\$ -	\$ -	\$ 80	0,000	\$ 35,000	\$ 16,000	\$ 95,500	\$ -	\$ 101,300	\$ -	\$ 107,500	#########	\$ 54,500	\$ 43,000	\$ 1,205,900	\$ 264,000	\$ 273,000	\$ -	\$ 105,000

NOTES:

1 All future vehicle purchases are assumed to be new vehicles, unless noted otherwise.

2 Vehicle values are based on current year values with an added inflation factor of 3% per year.

3 All new vehicles (excluding fire engines) are planned to be replaced every 15 years and/or 100,000 miles.

4 Remaining life of existing vehicles/equipment is based on staff evaluation and will be re-evaluated each year.

5 Vehicles needing consecutive years of excessive repair work may need to be replaced earlier than planned.

6 Vehicles that reach their estimated useful life will be evaluated by staff to determine whether they need replacement prior to purchase of a new vehicle.

* Vehicle/equipment anticipated to be replaced with a used vehicle.

Twain Harte Community Services District 2023-2024 ANNUAL BUDGET														
WATER - REVENUE														
		BUD	GET			CHANG	ìE							
BUDGET ITEM	22/	23 Approved	23/2	24 Requested		\$	%	REASON FOR CHANGE						
Service Charges														
Water Service Charge	\$	1,470,863	\$	1,476,315	\$	5,452	0%	Current rates-slightly increased consumption						
TOTAL SERVICE CHARGES	\$	1,470,863	\$	1,476,315	\$	5,452	0%							
Fees														
Late Fee	\$	10,000	\$	10,000	\$	-	0%							
Door Notice Fee		2,700		2,700		-	0%							
Hookup Fees		3,500		3,500		-	0%							
Reconnection Fees		900		900		-	0%							
Property Transfer Fee		1,000		800		(200)	-20%							
Returned Check Fee		80		80		-	0%							
TOTAL FEES	\$	18,180	\$	17,980	\$	(200)	-1%							
Taxes & Assessments														
Secured & Unsecured Taxes	\$	39,292	\$	40,078	\$	786	2%							
Davis Grunsky Assessment						-	0%							
TOTAL TAXES & ASSESSMENTS	\$	39,292	\$	40,078	\$	786	2%							
Grants & Donations														
Grant Revenue - Misc	\$	1,555,650	\$	1,345,000	\$	(210,650)	-14%	Carryover funds grants awarded in 22.23						
Grant Revenue - Wells					\$	-	0%							
TOTAL GRANTS & DONATIONS	\$	1,555,650	\$	1,345,000	\$	(210,650)	-14%							
Other Revenue														
Miscellaneous Revenue	\$	16,900	\$	16,000	\$	(900)	-5%							
Interest Revenue		7,000	-	32,000		25,000	357%	Assumes 1.75% LAIF Interest Rate + Money Market Interest						
Lease Revenue						-	0%							
Sale of Assets		23,900		-		(23,900)	-100%							
TOTAL OTHER REVENUE	\$	47,800	\$	48,000	\$	200	0%							
GRAND TOTAL REVENUE	RAND TOTAL REVENUE \$ 3,131,785 \$ 2,927,372 \$ (204,412) -7%													
Admin Transfer Out	\$	1,034	\$	470	\$	(564)								
GRAND TOTAL WITH ADMIN	\$	3,132,819	\$	2,927,842	\$	(204,976)	-7%							

Twain Harte Community Services District 2023-2024 ANNUAL BUDGET

WATER - EXPENSES

		BUD	GET		CH	HANG	E	
BUDGET ITEM	22/2	3 Approved	23/24 Requ	ested	\$		%	REASON FOR CHANGE
Salaries - 51XXX								
Regular Time	\$	278,579	\$ 29	6,589	18	3,010	6%	New maint employee and union increases
Standby Pay		18,785	1	8,785		-	0%	
Overtime		22,507	1	5,000	(7	7,507)	-33%	22-23 had excessive OT due to storms
Sick Leave/Vacation Pay		6,300		6,300		-	0%	
Intern Stipend		780		600		(180)	-23%	
Uniform Allowance		3,438		3,564		126	4%	
Cell Phone Stipend		1,229		1,296		67	5%	
TOTAL SALARIES	\$	331,618	\$ 34	2,134	\$ 10),516	3%	
Benefits - 52XXX								
Health & Vision Insurance	\$	72,930	\$7	8,041	5	5,111	7%	Anticipated rate increase
HRA Reimbursement		25,775	2	25,775		-	0%	
CALPERS Retirement		41,240	4	45,709	4	1,469	11%	New employee, Rate and salary increases
FICA		20,560	2	21,212		652	3%	
Medicare		4,808		4,961		152	3%	
Workers Comp		13,000	1	15,168	2	2,168	17%	Anticipated rate increase
Unemployment Ins/ETT		844		868		25	3%	
TOTAL BENEFITS	\$	179,157	\$19	1,734	\$ 12	2,577	7%	
Equipment, Automotive, Maintenance & R	epairs							
Equipment Maintenance & Repair	\$	7,950	\$	7,400		(550)	-7%	
Facilities Maintenance & Repair								
Source of Supply		10,500		9,300	(1	1,200)	-11%	
Pumping		4,120		4,100		(20)	0%	
Water Treatment		22,500	2	3,500	1	1,000	4%	
Transmission & Distribution		87,500	5	8,200	(29	9,300)	-33%	22-23 had excessive leaks
General & Administrative		1,300		1,300		-	0%	
Vehicle Maintenance & Repair		7,500	1	2,000	4	1,500	60%	New Tires
Janitorial Cleaning Fees		1,900		0	(1	1,900)	-100%	Duties will be completed by new maint employee
Fuel		22,200	2	4,700	2	2,500	11%	
Equipment Under \$5,000		16,000	1	4,000	(2	2,000)	-13%	
Personal Protective Equipment		2,000		2,000		-	0%	
TOTAL EQUIP, AUTO, MAINT & REPAIRS	\$	183,470	\$ 15	6,500	\$ (26	5,970)	-15%	

Twain Harte Community Services District 2023-2024 ANNUAL BUDGET

WATER - EXPENSES

		BUD	GET		CHANG	E	
BUDGET ITEM	22,	23 Approved	23/	24 Requested	\$	%	REASON FOR CHANGE
Materials & Supplies - 54XXX							
Office Supplies	\$	1,200	\$	1,200	-	0%	
Postage		4,900		5,000	100	2%	
Food Supplies		400		400	-	0%	
Chemical Supplies		36,500		44,500	8,000	22%	Increase in chlorine prices
Janitorial Supplies		300		300	-	0%	
TOTAL MATERIALS & SUPPLIES	\$	43,300	\$	51,400	\$ 8,100	19%	
Outside Services - 55XXX							
Legal Fees		9,000		7,000	(2,000)	-22%	
IT Services		1,700		1,700	-	0%	
Engineering Services		291,000		148,000	(143,000)	-49%	Decrease in water system eval planning grant expenses
Medical Exams		550		550	-	0%	
Other Professional Services		3,300		3,300	-	0%	
TOTAL OUTSIDE SERVICES	\$	305,550	\$	160,550	\$ (145,000)	-47%	
Other - 56XXX							
Utilities	Ś	45,700	Ś	46.300	600	1%	
Phone/Communications		6.500		7.200	700	11%	
Computer Licenses & Maintenance		25,800		19,800	(6,000)	-23%	Reduction of one time costs
Property/Liability Insurance		38,500		46,000	7,500	19%	Estimated rate increase
Property Tax		500		500	-	0%	
Memberships/Publications/Subscriptions		11,800		11,800	-	0%	
Licenses & Certifications		1,400		1,400	-	0%	
Training, Conferences & Travel		9,100		4,100	(5,000)	-55%	Will be conducting in-house class A Training
Uncollectable accounts		500		500	-	0%	
Advertising & Public Education		1,400		1,400	-	0%	
Laboratory Fees		20,300		27,300	7,000	34%	Reservoir Title 22 sampling
Regulatory Fees		18,000		18,500	500	3%	
Purchased Water		35,000		51,000	16,000	46%	TUD rate increase and increased usage
Bank & Credit Card Fees		10,500		11,300	800	8%	
Claims		4,615		0	(4,615)	-100%	22.23 One time claim
TOTAL OTHER	\$	229,615	\$	247,100	\$ 17,485	8%	
Debt Service - 58XXX							
Interest on Long Term Debt	\$	24,889	\$	20,353	(4,536)	-18%	Grunsky Loans Paid Off in 22.23
Principal on Long Term Debt		163,725		90,330	(73,394)	-45%	Grunsky Loans Paid Off in 22.23
TOTAL DEBT SERVICE	\$	188,614	\$	110,684	\$ (77,930)	-41%	
GRAND TOTAL EXPENSES	\$	1,461,323	\$	1,260,101	\$ 5 (201,222)	-14%	
Admin Transfer Out	\$	361,585	\$	378,619	\$ 17,034		
GRAND TOTAL WITH ADMIN	\$	1.822.908	\$	1.638.720	\$ (184,188)	-10%	

Twain Harte Community Services District														
2023-2024 ANNUAL BUDGET														
WATER - EXPENSES														
	BUD	OGET	CHANG	E										
BUDGET ITEM	BUDGET ITEM 22/23 Approved 23/24 Requested \$ % REASON FOR CHANGE													

Capital Outlay - 57XXX					
FH Improvements	15,000	15,000	-	0%	
WTP Backwash PLC Replacement	25,000		(25,000)	-100%	
SCADA Upgrade	300,000	365,000	65,000	22%	
Blak Oak System Radio	10,000		(10,000)	-100%	
Equipment Trailer	13,000		(13,000)	-100%	
Refurbish Treatment Filters	0	25,000	25,000	25000%	
Truck #4 Plow	0	8,500	8,500	8500%	
Cedar Pines Pressure Zone Upgrades	0	100,000	100,000	100000%	
Turbidimeter Replacement	0	40,000	40,000	40000%	
Truck #3 Replacement	32,400		(32,400)	-100%	
WTP Motor Control Center Upgrade	185,000	135,000	(50,000)	-27%	
MG Tank #2 Rehabilitation & Recoat	1,275,000	1,225,000	(50,000)	-4%	
TOTAL CAPITAL OUTLAY	\$ 1,855,400	\$ 1,913,500	\$ 58,100	3%	

GRAND	ΤΟΤΔΙ	WITH	CAPITAL	
UNAND	IUIAL		UAFITAL	

\$ 3,678,308 \$ 3,552,220 \$ (126,088) -3%

					Τv	vain Harte (2023/20	Community Ser 124 ANNUAL E	vices District BUDGET								
		WATER			SEWER			FIRE			PARK			ADMIN		TOTAL
	FY 22-23	Requested	% Diff	FY 22-23	Requested	% Diff	FY 22-23	Requested	% Diff	FY 22-23	Requested	% Diff	FY 22-23	Requested	% Diff	PROJECTED
Revenue																
Service Charges	\$ 1,470,863	\$ 1,476,315	0%	\$ 1,137,942	\$ 1,137,942	0%	\$-	\$-	0%	\$-	\$-	0%	\$-	\$-	0%	\$ 2,614,257
Fees	18,180	17,980	-1%	14,820	13,580	-8%	-	-	0%	7,100	7,100	0%	-	-	0%	38,660
Taxes & Assessments	39,292	40,078	2%	-	-	0%	1,278,501	1,311,127	3%	146,699	151,365	3%	-	-	0%	1,502,569
Grants & Donations	1,555,650	1,345,000	-14%	-	490,000	490000%	286,726	289,275	1%	2,746,065	2,416,065	-12%	1,200	-	-100%	4,540,340
Other Revenue	47,800	48,000	0%	7,100	20,000	182%	168,898	35,340	-79%	111,292	3,500	-97%	1,000	1,000	0%	107,840
Total Program Revenue	\$ 3,131,785	\$ 2,927,372	-7%	\$ 1,159,862	\$ 1,661,522	43%	\$ 1,734,125	\$ 1,635,742	-6%	\$ 3,011,156	\$ 2,578,030	-14%	\$ 2,200	\$ 1,000	-55%	\$ 8,803,666
Admin Revenue Allocation	1,034	470	-55%	550	250	-55%	396	180	-55%	220	100	-55%	(2,200)	(1,000)	-55%	-
GRAND TOTAL REVENUE	\$ 3,132,819	\$ 2,927,842	-7%	\$ 1,160,412	\$ 1,661,772	43%	\$ 1,734,521	\$ 1,635,922	-6%	\$ 3,011,376	\$ 2,578,130	-14%	\$-	\$-	0%	\$ 8,803,666
Operating Expenses																
Salaries	\$ 331,618	\$ 342,134	3%	\$ 183,109	\$ 191,412	5%	\$ 624,733	\$ 612,972	-2%	\$ 5,214	\$ 26,373	406%	\$ 429,933	\$ 450,405	5%	\$ 1,623,296
Benefits	179,157	191,734	7%	98,967	106,333	7%	288,214	310,863	8%	3,022	6,522	116%	218,196	231,818	6%	847,270
Equip, Auto, Maint, & Repairs	183,470	156,500	-15%	79,900	68,700	-14%	102,900	118,000	15%	41,930	14,850	-65%	16,800	13,000	-23%	371,050
Materials & Supplies	43,300	51,400	19%	5,900	6,000	2%	10,000	10,300	3%	1,500	1,500	0%	3,950	3,950	0%	73,150
Outside Services	305,550	160,550	-47%	30,550	30,350	-1%	27,950	23,500	-16%	4,500	4,500	0%	27,550	28,750	4%	247,650
Other (Utilities, Prop/Liab Ins, TUD)	229,615	247,100	8%	537,885	618,400	15%	108,500	105,900	-2%	53,100	28,000	-47%	72,900	77,650	7%	1,077,050
Debt Service	188,614	110,684	-41%	16,976	16,958	0%	-	-	0%	-	-	0%	-	-	0%	127,641
Total Program Expenses	\$ 1,461,323	\$ 1,260,101	-14%	\$ 953,287	\$ 1,038,153	9%	\$ 1,162,297	\$ 1,181,535	2%	\$ 109,266	\$ 81,745	-25%	\$ 769,329	\$ 805,573	5%	\$ 4,367,107
Administrative Cost Allocation	361,585	378,619	5%	192,332	201,393	5%	138,479	145,003	5%	76,933	80,557	5%	(769,329)	(805,573)	5%	-
GRAND TOTAL OPERATING EXPENSES	\$ 1,822,908	\$ 1,638,720	-10%	\$ 1,145,619	\$ 1,239,546	8%	\$ 1,300,776	\$ 1,326,538	2%	\$ 186,199	\$ 162,302	-13%	\$-	\$-	0%	\$ 4,367,106
TOTAL OPERATING BALANCE	\$ 1,309,911	\$ 1,289,122		\$ 14,793	\$ 422,226		\$ 433,744	\$ 309,384		\$ 2,825,177	\$ 2,415,828		\$ -	\$ -		
Capital Expenses																
Capital Outlay	1,855,400	1,913,500	3%	224,300	777,500	247%	731,682	380,000	-48%	2,794,800	2,466,000	-12%		-	0%	5,537,000
Adminstrative Capital Allocation		-	0%		-	0%		-	0%		-	0%		-	0%	-
Total Capital Expenses	\$ 1,855,400	\$ 1,913,500	3%	\$ 224,300	\$777,500	247%	\$ 731,682	\$ 380,000	-48%	\$ 2,794,800	\$ 2,466,000	-12%	\$-	\$-		\$ 5,537,000
GRAND TOTAL EXPENSES	\$ 3,678,308	\$ 3,552,220	-3%	\$ 1,369,919	\$ 2,017,046	47%	\$ 2,032,458	\$ 1,706,538	-16%	\$ 2,980,999	\$ 2,628,302	-12%	\$-	\$-	0%	\$ 9,904,106
Transfer To/(From) Reserve	\$ (545,489)	\$ (624,378)		\$ (209,507)	\$ (355,274)		\$ (297,938)	\$ (70,616)		\$ 30,377	\$ (50,172)		\$-	\$-		\$ (1,100,440)

5-YEAR CAPITAL OUTLAY PLAN Water Fund - FY 23/24

	Previo	usly	Pro	jected	Re	equested								0	ut Years		
	Expen	ded	FY	22-23	F	Y 23-24	FY 24-25	F۱	(25-26	F۱	(26-27	F	Y 27-28	6	i to 10		TOTAL
FH Improvements			\$	-	\$	15,000	\$ 15,000	\$	15,000	\$	15,000	\$	15,000	\$	75,000	\$	150,000
WTP Backwash PLC Replacement ⁵			\$	-												\$	-
Black Oak System Radio ⁵			\$	-												\$	-
Equipment Trailer (35% Sewer) ³			\$	10,400												\$	10,400
Truck #3 Replace (35% Sewer) ³	\$ 6	,918	\$	45,500												\$	52,418
Truck #4 Replace (35% Sewer) ³			\$	55,250												\$	55,250
SCADA Upgrade ⁴			\$	10,000	\$	365,000										\$	375,000
WTP Motor Control Center Upgrade ⁴			\$	50,000	\$	135,000										\$	185,000
Million Gallon Tank #2 Rehab/Recoat ^{4,6}			\$	50,000	\$ 1	1,225,000										\$	1,275,000
Turbidimeter Replacement					\$	40,000										\$	40,000
Refurbish Treatment Filters					\$	25,000										\$	25,000
Truck #4 Plow (35% Sewer)					\$	8,500										\$	8,500
Cedar Pines Pressure Zone Upgrades					\$	100,000	\$ 350,000									\$	450,000
Manzanita Ct Waterline Upgrade							\$ 160,000									\$	160,000
Emergency Response Trailer (50% S)							\$ 5,000									\$	5,000
Sherwood Forest Water System Upgrade ⁷							\$ 300,000	\$2,	,000,000	\$1	,400,000					\$	3,700,000
Rehab/Recoat Black Oak Tanks								\$	300,000							\$	300,000
High Pressure Pipe/Lateral Replacement										\$	100,000	\$	150,000	\$2	,500,000	\$	2,750,000
Shadybrook Dredging/Bypass												\$	100,000	\$	850,000	\$	950,000
Recoat Sherwood Tank														\$	100,000	\$	100,000
Vehicle/Equipment Replacement														\$	145,420	\$	145,420
TOTAL CAPITAL OUTLAY	\$ 6	,918	\$ 2	221,150	\$ 1	1,913,500	\$ 830,000	\$2,	,315,000	\$ 1 ,	,515,000	\$	265,000	\$3	,670,420	\$:	10,736,988

NOTES:

1 Vehicle/Equipment replacement items match the THCSD Vehicle/Equipment Replacement Plan.

2 An inflation factor of 3% per year has been applied to future capital costs.

3 Project completed or anticipated to be completed in previous fiscal year.

4 Entire project was budgeted in previous fiscal year. New budget requests represent anticipated unspent funds and will be adjusted to reflect actuals at mid-year.

5 Project to be included with SCADA Upgrade

6 Project costs 100% covered by DWR grant

FY 23-24 Water Fund Capital Reserves Analysis

FY 22-23 Starting Capital Reserve	\$ 1,546,719
FY 22-23 Anticipated Operational Surplus	\$ 34,911
FY 21-22 Anticipated Capital Outlay	\$ (221,150)
FY 23-24 Operating Surplus (Est. 5/25)	\$ 1,289,122
FY 22-23 Capital Outlay	\$ (1,913,500)
Capital Reserve Balance	\$ 736,102

Twain Harte Community Services District 2023-2024 ANNUAL BUDGET SEWER - REVENUE													
		BUD	GET	-		CHAN	GE						
BUDGET ITEM	22/	23 Approved	23/	24 Requested		\$	%	REASON FOR CHANGE					
Sorvice Charges													
Sewer Service Charge	1	1 137 9/12		1 137 9/2		_	0%	Assumed current rates and structure					
TOTAL SERVICE CHARGES	\$	1,137,942	\$	1,137,942	\$	-	0%						
		, - ,-		, - ,-									
Fees													
Late Fee	\$	7,000	\$	6,500	\$	(500)	-7%						
Door Notice Fee		2,700		2,700		-	0%						
Hookup Fees		2,000		2,000		-	0%						
Reconnection Fees		1,800		1,500		(300)	-17%						
Inspection Fees		200				(200)	-100%						
Property Transfer Fee		1,000		800		(200)	-20%						
Returned Check Fee		120		80		(40)	-33%						
TOTAL FEES	\$	14,820	\$	13,580	\$	(1,240)	-8%						
Grants & Donations													
Grant Revenue				490,000	\$	490,000	490000%						
TOTAL GRANTS & DONATIONS	\$	-	\$	490,000	\$	490,000	490000%						
Other Revenue	1												
Interest Revenue		5,000		20,000		15,000	300%	Assumes 1.75% LAIF Interest Rate + Money Market Interest					
Sale of Assets		2,100		-		(2,100)	-100%						
Other	<u> </u>	-	<u> </u>	-		-	0%						
TOTAL OTHER REVENUE	Ş	7,100	Ş	20,000	Ş	12,900	182%						
GRAND TOTAL REVENUE	\$	1,159,862	\$	1,661,522	\$	501,660	43%						
Admin Transfer Out	\$	550	\$	250	\$	(300)							
GRAND TOTAL WITH ADMIN	\$	1,160,412	\$	1,661,772	\$	501,360							

Twain Harte Community Services District 2023-2024 ANNUAL BUDGET SEWER - EXPENSES												
BUDGET ITEM	22/23 A	BUI	DGET 23/24	Requested		CHANG خ	jE %	REASON FOR CHANGE				
	,, .	pprotes				¥	<i>,</i> ,,					
Salaries - 51XXX	· .											
Regular Time	Ş	150,054	Ş	159,789		9,735	6%	New maint employee and union increases				
Standby Pay		18,785		18,785		0	0%					
Overtime		7,455		6,600		(855)	-11%					
Sick Leave/Vacation Pay		3,500		3,000		(500)	-14%					
Intern Stipend		780		600		(180)	-23%					
Uniform Allowance		1,863		1,931		68	4%					
Cell Phone Stipend	-	672		708		36	5%					
TOTAL SALARIES	\$	183,109	\$	191,412	\$	8,304	5%					
Benefits - 52XXX												
Health & Vision Insurance	\$	39,478	\$	42,244		2,767	7%	Anticipated rate increase				
HRA Reimbursement		13,958		13,958		0	0%	•				
CALPERS Retirement		22,087		24,485		2,398	11%	New employee, Rate and salary increases				
FICA		11,353		11,868		515	5%					
Medicare		2,655		2,775		120	5%					
Workers Comp		8,900		10,453		1,553	17%	Anticipated rate increase				
Unemployment Ins/ETT		537		550		13	2%					
TOTAL BENEFITS	\$	98,967	\$	106,333	\$	7,366	7%					
Equipment Automotive Maintenance &	Popairs											
Equipment, Automotive, Maintenance &	े Kepans	8 000	¢	8 600		600	8%					
Equipment Maintenance & Repair	ې ا	8,000	ې 	8,000		000	870					
Lift Station		16 900		8 800		(8 100)	-18%	Reduction in one-time costs				
Collections		23 200		23 000		(200)	-1%					
General & Administrative		23,200		23,000		(200)	 					
Vehicle Maintenance & Renair		5 600		7 200		1 600	20%					
lanitorial/Cleaning Fees		1 100		۰,200 ۵		(1 100)	-100%	Duties will be completed by new maint employee				
Fuel		12 100		13 200		1 100	0% 2007- 2007	Daties with be completed by new maint employee				
Fauinment Under \$5,000		10 600		5 500		(5 100)	<u>۶/۵</u> ۱۵۷۰_	Reduction in one-time costs				
Personal Protective Equipment		1 600		1 600		(3,100)	- 4 876 0%					
TOTAL EQUIP, AUTO. MAINT & REPAIRS	Ś	79,900	Ś	68.700	Ś	(11.200)	-14%					

Twain Harte Community Services District 2023-2024 ANNUAL BUDGET SEWER - EXPENSES									
	BUDGET CHANGE								
BUDGET ITEM	22/23 Approved	23/24 Requested	\$	%	REASON FOR CHANGE				
Materials & Supplies - 54XXX									
Office Supplies	\$ 800	\$ 800	\$-	0%					
Postage	4,400	4,500	100	2%					
Food Supplies	300	300	0	0%					
Janitorial Supplies	400	400	0	0%					
TOTAL MATERIALS & SUPPLIES	\$ 5,900	\$ 6,000	\$ 100	2%					
Outside Services - 55XXX									
Legal Fees	\$ 4,000	\$ 4,000	Ş -	0%					
IT Services	1,200	1,300	100	8%					
Engineering Services	22,000	22,000	0	0%					
Medical Exams	350	350	0	0%					
Other Professional Services	3,000	2,700	(300)	-10%					
TOTAL OUTSIDE SERVICES	\$ 30,550	\$ 30,350	\$ (200)	-1%					
Other - 56XXX									
Utilities	\$ 6,800	\$ 7,400	\$ 600	9%					
Phone/Communications	3,400	3,700	300	9%					
Computer Licenses & Maintenance	16,600	16,300	(300)	-2%					
Property/Liability Insurance	26,200	31,200	5,000	19%	Estimated rate increase				
Property Tax			0	0%					
Dues & Memberships	5,400	6,100	700	13%					
Licenses & Certifications	1,100	1,100	0	0%					
Training, Conferences & Travel	8,000	3,000	(5,000)	-63%	Will be conducting in-house class A Training				
Uncollectable accounts	500	500	0	0%					
Advertising & Public Education	1,400	1,200	(200)	-14%					
Regulatory Fees	400	400	0	0%					
Sewer Service Charge	456,200	537,100	80,900	18%	TUD Rate Increase				
Bank & Credit Card Fees	9,400	10,400	1,000	11%	Increased Rates				
Claims	2,485	0	(2,485)	-100%	22.23 One time claim				
TOTAL OTHER	\$ 537,885	\$ 618,400	\$ 80,515	15%					

Twain Harte Community Services District 2023-2024 ANNUAL BUDGET SEWER - EXPENSES								
		BUI	DGE	т		CHAN	GE	
BUDGET ITEM	22/	23 Approved	23	/24 Requested		\$	%	REASON FOR CHANGE
Debt Service - 58XXX								
Interest on Long Term Debt	\$	1,282	\$	690	\$	(592)	-46%	
Principal on Long Term Debt		15,694	-	16,268		573	4%	
TOTAL DEBT SERVICE	\$	16,976	\$	16,958	\$	(18)	0%	
	÷							
GRAND TOTAL EXPENSES	\$	953,287	\$	1,038,153	\$	84,866	9%	
Admin Transfer Out	\$	192,332	\$	201,393	\$	9,061	5%	
GRAND TOTAL WITH ADMIN	\$	1,145,619	\$	1,239,546	\$	93,927	8%	
Capital Outlay - 57XXX								
SCADA Upgrade	\$	100,000	\$	95,000	\$	(5,000)	-5%	
Equipment Trailer	\$	7,000			\$	(7,000)	-100%	
Push Camera				25,000		25,000	25000%	
Lift Station Backup Pump				13,000		13,000	13000%	
TH Pipeline Replacement Project				490,000		490,000	490000%	
Sewer Main Re-Lining/Replacement		75,000		150,000		75,000	100%	
Truck #4 Plow		0		4,500		4,500	4500%	
Truck #3 Replacement		17,300				(17,300)	-100%	
I&I Manhole Repair/Replacement		25,000				(25,000)	-100%	
TOTAL CAPITAL OUTLAY*	\$	224,300	\$	777,500	\$	553,200	247%	
GRAND TOTAL WITH CAPITAL	\$	1.369.919	\$	2.017.046	\$	647,127	47%	

Twain Harte Community Services District 2023/2024 ANNUAL BUDGET																
		WATER			SEWER			FIRE			PARK			ADMIN		TOTAL
	FY 22-23	Requested	% Diff	FY 22-23	Requested	% Diff	FY 22-23	Requested	% Diff	FY 22-23	Requested	% Diff	FY 22-23	Requested	% Diff	PROJECTED
Revenue																
Service Charges	\$ 1,470,863	\$ 1,476,315	0%	\$ 1,137,942	\$ 1,137,942	0%	\$-	\$-	0%	\$-	\$-	0%	\$-	\$-	0%	\$ 2,614,257
Fees	18,180	17,980	-1%	14,820	13,580	-8%	-	-	0%	7,100	7,100	0%	-	-	0%	38,660
Taxes & Assessments	39,292	40,078	2%	-	-	0%	1,278,501	1,311,127	3%	146,699	151,365	3%	-	-	0%	1,502,569
Grants & Donations	1,555,650	1,345,000	-14%	-	490,000	490000%	286,726	289,275	1%	2,746,065	2,416,065	-12%	1,200	-	-100%	4,540,340
Other Revenue	47,800	48,000	0%	7,100	20,000	182%	168,898	35,340	-79%	111,292	3,500	-97%	1,000	1,000	0%	107,840
Total Program Revenue	\$ 3,131,785	\$ 2,927,372	-7%	\$ 1,159,862	\$ 1,661,522	43%	\$ 1,734,125	\$ 1,635,742	-6%	\$ 3,011,156	\$ 2,578,030	-14%	\$ 2,200	\$ 1,000	-55%	\$ 8,803,666
Admin Revenue Allocation	1,034	470	-55%	550	250	-55%	396	180	-55%	220	100	-55%	(2,200)	(1,000)	-55%	-
GRAND TOTAL REVENUE	\$ 3,132,819	\$ 2,927,842	-7%	\$ 1,160,412	\$ 1,661,772	43%	\$ 1,734,521	\$ 1,635,922	-6%	\$ 3,011,376	\$ 2,578,130	-14%	\$-	\$-	0%	\$ 8,803,666
Operating Expenses																
Salaries	\$ 331,618	\$ 342,134	3%	\$ 183,109	\$ 191,412	5%	\$ 624,733	\$ 612,972	-2%	\$ 5,214	\$ 26,373	406%	\$ 429,933	\$ 450,405	5%	\$ 1,623,296
Benefits	179,157	191,734	7%	98,967	106,333	7%	288,214	310,863	8%	3,022	6,522	116%	218,196	231,818	6%	847,270
Equip, Auto, Maint, & Repairs	183,470	156,500	-15%	79,900	68,700	-14%	102,900	118,000	15%	41,930	14,850	-65%	16,800	13,000	-23%	371,050
Materials & Supplies	43,300	51,400	19%	5,900	6,000	2%	10,000	10,300	3%	1,500	1,500	0%	3,950	3,950	0%	73,150
Outside Services	305,550	160,550	-47%	30,550	30,350	-1%	27,950	23,500	-16%	4,500	4,500	0%	27,550	28,750	4%	247,650
Other (Utilities, Prop/Liab Ins, TUD)	229,615	247,100	8%	537,885	618,400	15%	108,500	105,900	-2%	53,100	28,000	-47%	72,900	77,650	7%	1,077,050
Debt Service	188,614	110,684	-41%	16,976	16,958	0%	-	-	0%	-	-	0%	-	-	0%	127,641
Total Program Expenses	\$ 1,461,323	\$ 1,260,101	-14%	\$ 953,287	\$ 1,038,153	9%	\$ 1,162,297	\$ 1,181,535	2%	\$ 109,266	\$ 81,745	-25%	\$ 769,329	\$ 805,573	5%	\$ 4,367,107
Administrative Cost Allocation	361,585	378,619	5%	192,332	201,393	5%	138,479	145,003	5%	76,933	80,557	5%	(769,329)	(805,573)	5%	-
GRAND TOTAL OPERATING EXPENSES	\$ 1,822,908	\$ 1,638,720	-10%	\$ 1,145,619	\$ 1,239,546	8%	\$ 1,300,776	\$ 1,326,538	2%	\$ 186,199	\$ 162,302	-13%	\$-	\$-	0%	\$ 4,367,106
TOTAL OPERATING BALANCE	\$ 1,309,911	\$ 1,289,122		\$ 14,793	\$ 422,226		\$ 433,744	\$ 309,384		\$ 2,825,177	\$ 2,415,828		\$ -	\$ -		
Capital Expenses																
Capital Outlay	1,855,400	1,913,500	3%	224,300	777,500	247%	731,682	380,000	-48%	2,794,800	2,466,000	-12%		-	0%	5,537,000
Adminstrative Capital Allocation		-	0%		-	0%		-	0%		-	0%		-	0%	-
Total Capital Expenses	\$ 1,855,400	\$ 1,913,500	3%	\$ 224,300	\$ 777,500	247%	\$ 731,682	\$ 380,000	-48%	\$ 2,794,800	\$ 2,466,000	-12%	\$-	\$-		\$ 5,537,000
GRAND TOTAL EXPENSES	\$ 3,678,308	\$ 3,552,220	-3%	\$ 1,369,919	\$ 2,017,046	47%	\$ 2,032,458	\$ 1,706,538	-16%	\$ 2,980,999	\$ 2,628,302	-12%	\$-	\$-	0%	\$ 9,904,106
Transfer To/(From) Reserve	\$ (545,489)	\$ (624,378)		\$ (209,507)	\$ (355,274)		\$ (297,938)	\$ (70,616)		\$ 30,377	\$ (50,172)		\$-	\$-		\$ (1,100,440)

5-YEAR CAPITAL OUTLAY PLAN Sewer Fund - FY 23/24

	Pre	eviously	P	rojected	Requested								C	ut Years	
	Ex	pended	F	Y 22-23	FY 23-24	F	Y 24-25	FY 25-26	F	Y 26-27	F	Y 27-28		6 to 10	TOTAL
Truck #3 Replace (65% W) ³	\$	3,638	\$	24,500											\$ 28,138
Truck #4 Replace (65% W) ³			\$	29,750											\$ 29,750
I&I Manhole Repair/Replacement ³			\$	25,000											\$ 25,000
Equipment Trailer (65% W) ³			\$	5,600											\$ 5,600
SCADA Upgrade ⁴			\$	5,000	\$ 95,000										\$ 100,000
Sewer Main Re-Lining/Replacement			\$	-	\$ 150,000	\$	150,000	\$ 150,000	\$	150,000	\$	150,000	\$	750,000	\$ 1,500,000
Truck #4 Plow (65% W)					\$ 4,500										\$ 4,500
Push Camera					\$ 25,000										\$ 25,000
Lift Station Backup Pump					\$ 13,000										\$ 13,000
TH Pipeline Replacement Project ⁵					\$ 490,000	\$	2,700,000	\$ 1,300,000							\$ 4,490,000
Emergency Response Trailer						\$	5,000								\$ 5,000
Sequoia Dr - 6" Replacement						\$	60,000								\$ 60,000
East Ave/Cedar Pines - 8" Replacement											\$	70,000	\$	330,000	\$ 400,000
Cresta/Oakview - 6" Replacement													\$	580,000	\$ 580,000
Little Fuller/Virgina - 6" Replacement													\$	80,000	\$ 80,000
Big Pine - 6" Replacement													\$	40,000	\$ 40,000
Sherwood Forest Sewer ⁶													\$	3,575,000	\$ 3,575,000
Vehicle/Equipment Replace													\$	86,380	\$ 86,380
TOTAL CAPITAL OUTLAY	\$	3,638	\$	89,850	\$ 777,500	\$ 2	2,915,000	\$ 1,450,000	\$	150,000	\$	220,000	\$!	5,441,380	\$ 11,047,368

NOTES:

1 Vehicle/Equipment replacement items match the THCSD Vehicle/Equipment Replacement Plan.

2 An inflation factor of 3% per year has been applied to future capital costs.

3 Project completed or anticipated to be completed in previous fiscal year.

4 Entire project was budgeted in previous fiscal year. New budget requests represent anticipated unspent funds and will be adjusted to reflect actuals at mid-year.

5 This project is anticipated to be 100% SWRCB grant funded

6 This project is a new sewer system that will require a special assessment and property owner vote

FY 23-24 Sewer Fund Capital Reserves Analysis

FY 22-23 Starting Capital Reserve	\$ 916,207
FY 22-23 Anticipated Operational Surplus	\$ 14,793
FY 21-22 Anticipated Capital Outlay	\$ (89,850)
FY 22-23 Operating Surplus (Est. 4/26)	\$ 422,226
Withdrawal fromRate Stabilization Reserves	\$ 67,774
FY 22-23 Capital Outlay	\$ (777,500)
Capital Reserve Balance	\$ 553,650
Rate Stabilization Reserve Balance	\$ 47,558

Assumes no additional operational savings

Needed to meet operational shortfall

PROPOSED TIMELINE – Rate Study, Ordinance Update & Rate Increase



SAVE WATER. SAVE CALIFORNIA.

Water Supply Contingency Plan for Small Town Community Service District (CSD)

Happy Lane, Small Town, 93924

Public Water System CA #7700041

Effective: February 15, 2023

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Section I: Declaration of Policy, Purpose, and Intent

In order to conserve the available water supply and protect the integrity of public water system (PWS) supply facilities, with particular regard for domestic water use, sanitation, and fire protection, to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, the Small Town CSD hereby adopts the following regulations and restrictions on the delivery and consumption of water through this Water Shortage Contingency Plan (Plan).

Water uses regulated or prohibited under this Plan are considered to be non-essential and continuation of such uses during times of water shortage or other emergency water supply condition are deemed to constitute a waste of water subjecting the offender(s) to penalties as defined in Section XI of the Plan.

Section II: Public Involvement

Opportunity for the public to provide input into the preparation of the Plan was provided by the Small Town CSD by means of two in-person and one web-based public workshops in January 2023. Final adoption of the Plan occurred at a properly noticed Board meeting on February 15, 2023.

Section III: Public Education

The Small Town CSD will regularly provide the public with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage, including but not limited to the value of water, sources of water being used, methods and opportunities for conservation. Detailed information on public education is provided in Section X of the Plan.

Section IV: Coordination with Regional Water Planning Groups

The service area of the Small Town CSD is located within the Small Town Aquifer Groundwater Sustainability Agency (GSA). The GSA's water planning area assessment documents were considered in the development of the Plan. A copy of the final Plan was shared with Small Town GSA and posted on our website on March 1, 2023.

Section V: Authorization

The General Manager, or designee, is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare. The General Manager, or designee, shall have the authority to initiate or terminate drought or other water supply emergency response measures as described in this Plan. The contact information for General Manager is: Google Voice number 888-754-3487 and via email at GM@STCSD.com.

Section VI: Application

The provisions of this Plan shall apply to all persons, customers, and properties utilizing water provided by the Small Town CSD. The terms "person" and "customer" as used in the Plan may include individuals, corporations, partnerships, associations, and all other legal entities.

Section VII: Definitions

For the purposes of this Plan, the following definitions shall apply:

<u>Aesthetic water use</u>: water use for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

Commercial and Institutional water use: water use which is integral to the operations of commercial and non-profit establishments and governmental entities such as schools, hospitals, clinics, retail establishments, hotels and motels, restaurants, and office buildings.

Conservation: those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

Customer: any person, company, or organization using water supplied by Small Town CSD.

Domestic water use: water use for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or for cleaning a residence, business, industry, or institution.

Even number address: street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.

Industrial water use: the use of water in processes designed to convert materials of lower value into forms having greater usability and value.

Landscape irrigation use: water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, rights-of-way and medians.

Non-essential water use: water uses that are not essential nor required for the protection of public, health, safety, and welfare, including:

- (a) irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;
- (b) use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;

- (c) use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
- (d) use of water to wash down buildings or structures for purposes other than immediate fire protection;
- (e) flushing gutters or permitting water to run or accumulate in any gutter or street;
- (f) use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzi-type pools;
- (g) use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
- (h) failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
- (i) use of water from hydrants for construction purposes or any other purposes other than firefighting or hauling water for a domestic water use.

<u>Odd numbered address</u>: street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.

Section VIII: Summary of Drought Response Stages and Response Actions

The General Manager, or designee, shall monitor water supply and/or demand conditions on a monthly basis and shall determine when conditions warrant initiation or termination of each stage of the Plan, that is, when the specified "triggers" are reached.

The triggering and termination criteria described in subsequent sections of this document are based on:

- Groundwater well elevations and/or well production capacities relative to system demands;
- Projected drought conditions on Department of Water Resources (DWR) California Water Watch Tool (<u>https://cww.water.ca.gov</u>)
- County, State or Federal Drought Emergency Orders
- Emergencies such as fire, earthquake, etc. resulting in potential water outages

The response actions described in subsequent sections of this document are based on the following general precepts:

- Source capacity augmentation is proposed with the City of Small Town intertie and decreasing water loss through enhanced operational and maintenance changes. In more critical cases, source capacity may be increased by drilling of a shared well with the City of Small Town and/or a provision of hauled or bottled water in cases of natural disasters.
- Conservation techniques employed include progressively implementing more strict water use policies, primarily focused on outdoor irrigation and increasingly restrictive water use in business functions. In natural disaster type scenarios, water supplies are limited based on a per capita per day scenario.
- Notification of the public is performed in a variety of ways to ensure drought messaging is received by the residents. Depending on the severity of the drought stage, this may include messages on Small Town CSD's website and social media to house-to-house outreach services performed with community service groups. Whenever possible, messages will be provided in English and Spanish. Messaging will also be highly coordinated with the City of Small Town since water sharing may occur through the intertie at higher response stages.
- Small Town CSD will coordinate with a variety of agencies, including the City of Small Town, County Environmental Health, State Water Board's Division of Drinking Water, and Small Town Groundwater Sustainability Agency (GSA). In the event of severe water shortages, Small Town CSD will also coordinate with County Public Health to support County registered vulnerable persons, County Offices of Emergency Services (OES), CalWARN, community partners and critical users.

Section IX: Drought Response Triggers

The drought response triggers and terminations discussed below provides details on when varying levels of drought responses, further discussed in Section X, will be implemented and then subsequently terminated. The Small Town CSD Board of Directors may choose to make modifications to the triggers and terminations depending on real-time scenarios, however these response triggers stand in the absence of other Board decisions.

Stage 1 Triggers -- Water Shortage WATCH Conditions

Requirements for initiation

Customers shall be required to comply with the restrictions on certain nonessential water uses provided in Section X of this Plan when groundwater well elevations show an average decrease of 10% in groundwater elevations or available flow capacity, there is a projected lack of normal regional rain patterns, the DWR Water Watch drought map¹ shows moderate drought conditions in our zip code, City of Small Town initiates voluntary conservation measures, or Small Town GSA proposes basin-wide voluntary conservation measures.

Requirements for termination

Stage 1 of the Plan may be rescinded when all well related conditions listed as triggering events have ceased to exist for a period of 10 consecutive days, or immediately when any other conditions cease to exist.

Stage 2 Triggers -- Water Shortage WARNING Conditions

Requirements for initiation

Customers shall be required to comply with the restrictions on certain nonessential water uses provided in Section X of this Plan when groundwater well elevations show an average decrease of 20% in groundwater elevations or available flow capacity, City of Small Town initiates Stage 2 drought response measures, Small Town GSA recommends Stage 2 drought response measures, or the DWR Water Watch drought map shows severe drought conditions in our zip code.

Requirements for termination

Stage 2 of the Plan may be rescinded when all well related conditions listed as triggering events have ceased to exist for a period of 10 consecutive days, or immediately when any other conditions cease to exist. Upon termination of Stage 2, Stage 1 becomes operative unless otherwise specified.

¹ https://cww.water.ca.gov/

Stage 3 Triggers – ACUTE Water Shortage Conditions

Requirements for initiation

Customers shall be required to comply with the restrictions on certain nonessential water uses provided in Section X of this Plan when groundwater well elevations show an average decrease of 30% in groundwater elevations or available flow capacity, City of Small Town initiates Stage 3 drought response measures, Small Town GSA recommends Stage 3 drought response measures, or DWR's California Water Watch drought maps shows extreme drought conditions in our zip code.

Requirements for termination

Stage 3 of the Plan may be rescinded when all well related conditions listed as triggering events have ceased to exist for a period of 10 consecutive days, or immediately when any other conditions cease to exist. Upon termination of Stage 3, Stage 2 becomes operative unless otherwise specified.

Stage 4 Triggers -- CRITICAL Water Shortage Conditions

Requirements for initiation

Customers shall be required to comply with the restrictions on certain nonessential water uses provided in Section X of this Plan when groundwater well elevations show an average decrease of 40% in groundwater elevations or available flow capacity, City of Small Town initiates Stage 4 drought response measures, Small Town GSA recommends Stage 4 drought response measures, or a County, State or Federal Drought Emergency is declared.

Requirements for termination

Stage 4 of the Plan may be rescinded when all well related conditions listed as triggering events have ceased to exist for a period of 10 consecutive days, or immediately when any other conditions cease to exist. Upon termination of Stage 4, Stage 3 becomes operative unless otherwise specified.

Stage 5 Triggers -- EMERGENCY Water Shortage Conditions

Requirements for initiation

Customers shall be required to comply with the restrictions on certain nonessential water uses provided in Section X of this Plan when groundwater well elevations show an average decrease of 50% in groundwater elevations or available flow capacity, City of Small Town initiates Stage 5 drought response measures, or Small Town GSA recommends Stage 5 drought response measures.

Requirements for termination

Stage 5 of the Plan may be rescinded when all well related conditions listed as triggering events have ceased to exist for a period of 10 consecutive days, or immediately when any other conditions cease to exist. Upon termination of Stage 5, Stage 4 becomes operative unless otherwise specified.

Stage 6 Triggers – CATASTROPHIC Water Shortage Conditions

Requirements for initiation

Customers shall be required to comply with the restrictions on certain nonessential water uses provided in Section X of this Plan when groundwater well elevations show an average decrease of greater than 50% in groundwater elevations or available flow capacity, City of Small Town initiates Stage 6 drought response measures, or Small Town GSA recommends Stage 6 drought response measures. Triggers may also include earthquakes resulting in significant infrastructure damage, emergency conservation needed for fire protection, or other actual or threatened catastrophic water infrastructure failure as determined by the General Manager, or designee.

Requirements for termination

Stage 6 of the Plan may be rescinded when all the conditions listed as triggering events have ceased to exist and coordination with the health and safety authorities have indicated that the water source and distribution system is safe. Upon termination of Stage 6, Stage 5 becomes operative unless otherwise specified.

Section X: Drought Response Stages and Actions

The General Manager, or designee, shall monitor water supply and/or demand conditions on a monthly basis and, in accordance with the triggering criteria set forth in Section IX of this Plan, shall determine if a water shortage condition exists and the severity of any such water shortage conditions (*e.g., 1-Watch, 2-Warning, 3-Acute, 4-Critical, 5-Emergency, 6-Catastrophic Water Loss*), and shall implement the following notification procedures accordingly:

Notification

Description of Customer Notification Methods:

The General Manager, or designee, shall notify the public by means of one of the following Methods:

- Method 1: Notice on Small Town CSD website and social media outlets
- Method 2: Notice in Small Town Gazette newspaper, joint messaging with Small Town GSA and City of Small Town
- Method 3: Notice to local Spanish and English-speaking radio stations
- Method 4: Email to customer listing
- Method 5: Direct Mail to each customer, in bill or flyer format
- Method 6: Personal phone calls to hospital, elder care facility and school district
- Method 7: Door to door outreach in low-income, elderly communities, County registered vulnerable residents, residences with high usage, and/or parts of the distribution system impacted by emergency
- Method 8: County Emergency Messaging text alert

Small Town CSD has a 15% Spanish speaking population, therefore Methods 1, 3, 4, 5 and 7 shall be provided in both English and Spanish.

Prepared materials from Department of Water Resources, "Save Our Water Toolkit", may be used as drought communication tools with the Small Town CSD logo added. The link for these materials is provided below:

https://saveourwater.com/en/Partner-Toolkit

Public Safety Contacts:

The General Manager, or designee, shall notify directly the following individuals and entities of restrictions and water shortages, as defined in the subsections below, as appropriate for each response stage.

Organization or Department	Name & Position	Telephone	Email
Fire Department	Joan Miller Fire Captain	911 or 883-2574 (non- emergency)	jmiller@fire.ca.gov
City of Small Town	Marianne Williams, City Manager	876-3402	mwilliams@cityofstca.gov
County Office of Emergency Services	Stephen Fletcher, Emergency Coordinator	887-6539	bcase@co.county.ca.us
County Env. Health Agency	Diana Chavez, REHS Environmental Health Specialist	887-6539	dcase@co.county.ca.us
County Public Health	Dr. Aruna Patel, County Public Health Director	886-2345	apatel@co.county.ca.us
CalWARN Contact	Pat Fisher, Region IV Contact	898-285- 7731	Pfisher@calwarn.com
State Water Board District Engineer	Ashley Martin, District Engineer	325-2001	amartin@waterboards.ca. gov
Critical Water User: Hospital	Mike Diego, Hospital President	909-458- 8394	mdiego@hospital.com
Critical Water User: Elder Care	Matt Veal, Administrator	876-6341	mveal@elderliving.com
Critical Water User: Schools	Cecilia Light, Superintendent	886-4251	Cecilia. Light@school.edu
Small Town Aquifer GSA	Matt Parker, Natural Resource Specialist	842-8005	mparker@co.county.ca.us

Support Services Contacts:

The following is a listing of support services that may be appropriate for a water shortage emergency.

Organization or Department ²	Company & Name	Phone	Email
Water Hauler	Mack's Hauling, Maggie Mack	256-241- 3369	mmack@macks.com
Bottled Water Vendor	Sparkles Water, Sandy Sparkles	256-241- 3345	ss@sparkles.com
Storage Tank Vendor	Sparks Storage, Dan Sparks	256-669- 3355	dsparks@sparks.com
Emergency Shower Vendors	Shower Central, Grace Brock	562-257- 3333	grace@showercentral.com
Well Drilling/Pump Company	Weekly Drilling, Rob Weekly	256-333- 2417	robw@weekly.net
Community Service Partners: Red Cross	Red Cross Small Town Chapter, Tina Smith	884-3521	tinas@redcross.org
Community Service Partners: Self-Help Enterprises	Self Help, Tammi Jackson	865-2415	tjackson@SHE.org
Community Service Partners: Rotary Club	Local Rotary Club, Gary O'Donnell	865-9695	GOrotary@rotary.org

² Most of the service providers are factitious businesses for example purposes. For the purposes of an actual Plan, only used licensed potable water haulers from the California Department of Public Health. A listing can be found here:

https://www.cdph.ca.gov/Programs/CEH/DFDCS/CDPH% 20 Document% 20 Library/FDB/FoodSafetyProgram/Water/CountyList.pdf

Drought Responses Actions:

In addition to the Drought Response Stages detailed below, Small Town CSD has a continuously running rebate program to create water-efficient homes and landscapes, program highlights include:

- Turf conversion rebates, currently \$3 per square foot.
- High-efficiency toilet rebates, currently up to \$150 per toilet
- High-efficiency sprinkler nozzle rebate, up to \$5 per nozzle

Details of our rebate program can be found on our website and will be included in all Drought Response messaging.

Stage 1 Response -- Water Shortage WATCH Conditions

Target: Achieve a voluntary 10% percent reduction in total monthly water usage.

Best Management Practices for Supply Management:

- (a) The intertie with City of Small Town will be tested monthly to ensure that it is operational. Review water supply contract and mutual aid agreements with City of Small Town. Organize and ensure joint messaging and actions between Small Town CSD and City of Small Town on future Drought Stage Responses. Since water may be shared in drought emergencies through the intertie, joint messaging and shared Stages will help lessen customer confusion and prevent tension.
- (b) Small Town CSD will begin a special drought water loss audit to evaluate potential areas for limiting water loss. This will be completed for both Small Town CSD and City of Small Town simultaneously to share resources and for public messaging later.
- (c) Verify CalWARN membership is active and in good standing.
- (a) Decrease flushing from regular flushing routine to only as needed for colored water or other water quality issues.

Voluntary Water Use Restrictions for Reducing Demand:

(a) Water customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and to irrigate landscapes only between the hours

of 5:00 a.m. and 6:00 a.m. and 8:00 p.m. to midnight on designated watering days.

- (b) Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes such as ornamental fountains, washing down of sidewalks or hard surface areas.
- (c) All restaurants are requested to serve water to patrons only upon request.
- (d) Water customers are requested to not irrigate during rain or within 48 hours after measurable rainfall.
- (e) Hotels/Motels are requested to provide guests the option of not having towels and linens laundered daily.

Notification Method(s) and Frequency:

Methods: 1, 2, and 5 (via monthly bills) – Permanent website, monthly outreach

Agencies Contacted:

Contact GSA and City of Small Town to align potential future actions.

Stage 2 Response -- Water Shortage WARNING Conditions

<u>Target</u>: Achieve a 20% percent reduction in total monthly water usage.

Best Management Practices for Supply Management:

- (a) The intertie with City of Small Town will continue be tested monthly to ensure that it is operational. Continue to organize and ensure joint messaging and actions between Small Town CSD and City of Small Town on future Drought Stage Responses. Joint public workshops may be appropriate for messaging.
- (b) Using the results of the drought water loss audit perform leak detection surveys in areas with water loss above 15% and perform needed repairs. This activity will be completed for both Small Town CSD and City of Small Town to share resources and for public messaging purposes.
- (c) Decrease flushing from regular flushing routine to only as needed for colored water or other water quality issues.
- (d) Increase monitoring of groundwater elevations from monthly to weekly.

Mandatory Water Use Restrictions for Reducing Demand:

- (a) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and irrigation of landscaped areas is further limited to the hours of 5:00 a.m. and 6:00 a.m. and 8:00 p.m. to midnight on designated watering days. However, irrigation of landscaped areas is permitted at any time if it is by means of a filled bucket or watering can of five (5) gallons or less.
- (b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days between the hours of 5:00 a.m. and 6:00 a.m. and 6:00 p.m. to midnight. Such washing, when allowed, shall be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rinses. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station that utilizes internally recycled water. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public is contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.
- (c) Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools is prohibited except on designated watering days between the hours of 5:00 a.m. and 6:00 a.m. and 6:00 p.m. to midnight.
- (d) Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life.
- (e) Use of water for the irrigation of golf course greens, tees, and fairways is prohibited except once per week on a designated watering day between the hours of 5:00 a.m. and 6:00 a.m. and 8:00 p.m. to midnight. However, if the golf course utilizes a recycled water source, the facility shall not be subject to these regulations.
- (f) The following uses of water are defined as non-essential and are prohibited:
 - i. washdown of any sidewalks, walkways, unless being performed by a County or emergency response employee addressing a public health issue such as fecal waste removal, etc.;
 - ii. washdown of driveways, parking lots, tennis courts, or other hardsurfaced areas;

- iii. use of water to wash down buildings or structures for purposes other than immediate fire protection;
- iv. use of water for dust control;
- v. flushing gutters or permitting water to run or accumulate in any gutter or street; and
- vi. failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

Notification Method(s):

Methods: 1, 2, 3, and 5 (via bill and separate conservation flyer). At least monthly outreach. Create website form for water wasting complaints to be filed. Develop complaint response program.

Agencies Contacted:

Continue to work with GSA and City of Small Town to align potential future actions. If less than 30-day time period between 10% and 20% decrease in water capacity or well elevation change, inform County Environmental Health and/or State Water Resources Control Board District Engineer of decreasing production and initiate feasibility evaluation for long-term mitigation strategies.

Stage 3 Response -- ACUTE Water Shortage Conditions

<u>Target</u>: Achieve a 30% percent reduction in total weekly water usage.

Best Management Practices for Supply Management:

- (a) The intertie with City of Small Town will continue be tested monthly to ensure that it is operational. Continue to organize and ensure joint messaging and aligned actions between Small Town CSD, City and GSA on future Drought Stage Responses. Joint public workshops may be appropriate for messaging.
- (b) Using the results of the drought water loss audit perform leak detection surveys in areas with water loss above 10% and perform associated repairs. This activity will be completed for both Small Town CSD and City of Small Town to share resources and for public messaging purposes.
- (c) Decrease flushing from regular flushing routine to only as needed for colored water or other water quality issues.

(d) Prepare engineering designs, cost estimates and estimated schedule for long-term mitigation strategy of additional shared well with City of Small Town. City of Small Town grant writers will seek to evaluate if drought construction funding is available.

Mandatory Water Use Restrictions for Reducing Demand:

All requirements of Stage 2 shall remain in effect during Stage 3 with the following modifications:

- (a) The watering of golf course greens, tees, and fairways is prohibited unless the golf course utilizes recycled water.
- (b) Use of water from hydrants shall be limited to firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare such as hauling water to domestic well residents. Designated fire hydrants for construction purposes may be allowed but require a special permit from Small Town CSD so that usages can be tracked and assessed.
- (b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle not occurring on the premises of a commercial car wash and commercial service stations, that utilizes internally recycled water, or not in the immediate interest of public health, safety, and welfare is prohibited.
- (c) All restaurants are prohibited from serving water to patrons except upon request of the patron.

Notification Method(s) and Frequency:

Methods: 1, 2, 3, 4, 5 (via bill and separate conservation flyer), 6. At least monthly outreach.

Agencies Contacted:

Continue to work with GSA and City of Small Town to align potential future actions. Continue to collaborate with County Environmental Health and/or State Water Resources Control Board District Engineer on decreasing well production or water level elevations. Reach out to Fire Department and Critical Water Users (hospital, etc.) to notify them of the situation so that they can begin planning for alternative water sources as needed. Initiate planning for short-term alternative water scenarios and long-term mitigation strategies, such as well deepening or adding additional source capacity in coordination with the City of Small Town. Coordination will also extend to well drillers and County Environmental Health on permitting requirements. Coordinate with County Public Health to consider needs of vulnerable persons registered with the County in the event drought conditions worsen.
Stage 4 Response -- CRITICAL Water Shortage Conditions

Target: Achieve a 40% percent reduction in total daily water usage.

Best Management Practices for Supply Management:

- (a) The intertie with City of Small Town will continue be tested monthly to ensure that it is operational. Discuss status of City of Small Town water department's capacity and Small Town CSD's capacity, prior to moving either system to Stage 5 conservation, evaluate if water transfers could be used to prevent this step.
- (b) Using the results of the drought water loss audit perform leak detection surveys in areas with water loss above 5% and performed needed repairs. This activity will be completed for both Small Town CSD and City of Small Town to share resources and for public messaging purposes.
- (c) Decrease flushing from regular flushing routine to only as needed for colored water or other water quality issues.
- (d) Increase groundwater elevation monitoring from weekly to daily.
- (e) Prepare, and get Board approval for, a well sharing agreement contract between City of Small Town and Small Town CSD. Prepare CEQA documents for the additional shared well with City of Small Town. City of Small Town grant writers will apply for drought construction funding, as needed. However, contracts will be developed assuming grant funding is unavailable and both parties seek financing for their portion of the well cost.

Mandatory Water Use Restrictions for Reducing Demand:

All requirements of Stage 2 and 3 shall remain in effect during Stage 4 with the following modifications:

- (a) Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools is prohibited. The only exception is for the County public swimming pool during the months of June, July and August.
- (b) The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued. Supplying residents with domestic wells may continue under special permits with CDPH certified potable water haulers.
- (c) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8) and Wednesdays for

water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and irrigation of landscaped areas is further limited to the hours of 5:00 a.m. and 6:00 a.m. and 8:00 p.m. to midnight on designated watering days. However, irrigation of landscaped areas is permitted at any time if it is by means of a filled bucket or watering can of five (5) gallons or less.

Notification Method(s) and Frequency:

Methods: 1, 2, 3, 4, 5 (via bill and separate conservation flyer), 6, 7. At least weekly outreach through 2 or more methods.

Agencies Contacted:

Continue to work with GSA and City of Small Town to align potential future actions. Continue to collaborate with County Environmental Health and/or State Water Resources Control Board District Engineer on decreasing well production or water level elevations. Continue to each out to Fire Department and Critical Water Users (hospital, etc.) of the situation so that they can continue planning for alternative water sources, if necessary. Continue coordinating with County Public Health to consider needs of vulnerable persons registered with the County should drought conditions worsen.

Stage 5 Response – EMERGENCY Water Shortage Conditions

Target: Achieve a 50% percent reduction in total daily water usage.

Best Management Practices for Supply Management:

- (a) The intertie with City of Small Town will continue be tested monthly to ensure that it is operational. Discuss status of City of Small Town water department's capacity and Small Town CSD's capacity, prior to moving either system to Stage 6 conservation, evaluate if water transfers could be used to prevent this step.
- (b) Using the results of the drought water loss audit perform leak detection surveys in areas with any water loss and perform associated repairs. This activity will be completed for both Small Town CSD and City of Small Town to share resources and for public messaging purposes.
- (c) Decrease flushing from regular flushing routine to only as needed for colored water or other water quality issues.
- (d) Continue daily groundwater elevation measurements.
- (e) Execute agreements will well drillers, schedule new production well construction. Initiate engineering plans, costs, CEQA documents for a second well, if the production of the new well is inadequate to provide needed water supplies.

Mandatory Water Use Restrictions for Reducing Demand:

All requirements of Stage 2, 3 and 4 shall remain in effect during Stage 5 except with the following modifications:

- (a) Water use for County public swimming pool during the months of June, July and August, and September is prohibited.
- (b) All outdoor irrigation is prohibited.
- (c) Swamp coolers are only permitted for use when temperatures exceed 85°F.

Notification Method(s) and Frequency:

Methods: 1, 2, 3, 4, 5 (via bill and separate conservation flyer), 6, 7. At least weekly outreach via three or more methods. Water Waster Patrols are implemented.

Agencies Contacted:

Weekly coordination and status updates to all agencies.

Stage 6 Response -- CATASTROPHIC Water Shortage Conditions

<u>Target</u>: Achieve >50% percent reduction in total daily water usage or implement allocation plan requirements depending on situation.

Best Management Practices for Supply Management:

- (a) Sample new well, get State Water Board Division of Drinking Water and County Environmental Health approval to bring the well online.
- (b) Utilize intertie to share water with City of Small Town if their capacity allows.

Mandatory Water Use Restrictions for Reducing Demand:

All requirements of Stage 5 shall remain in effect during Stage 6 and indoor conservation such as utilizing showers instead of baths, decreasing frequency of clothes washing and decreasing toilet flushing are further promoted in social media and other communications methods.

Notification Method(s) and Frequency:

Methods: 1, 2, 3, 4, 5 (via bill and separate conservation flyer), 6 – Daily communication

Methods: 7 and 8 as appropriate

Agencies Contacted:

Daily or weekly coordination and status updates to all agencies, depending on the severity of the issue.

CATASTROPHIC Water Allocation Plan

In the event that water shortage conditions threaten public health, safety, and welfare, the General Manager, or designee, is hereby authorized to allocate water according to the following water allocation plan:

Single-Family Residential Customers

The allocation to residential water customers residing in a single-family dwelling shall be as follows:

Persons per Household	Gallons per Month
1 or 2	1,460 – 2,920
3 or 4	4,380 - 5,840
5 or 6	7,300 - 8,760
7 or greater	Requires written verification of any household usage greater than 9,000 gallons per month. Allowable usage will be calculated using 47 gallons per person per day.

"Household" means the residential premises served by the customer's meter. The above is based on 47³ gallons per person per day with all outdoor uses prohibited except by public safety officers (e.g. fire personnel, etc.)

Additional decreases to the table may be required for short-term emergency response to earthquakes, fires, etc. Any short-term decrease (defined as less than 72 hours) will be determined by the General Manager along with provision for alternative water supplies for any period of water outage greater than 10 hours. Any conservation decreases to below 47 gallons per person per day, for greater than 72 hours, requires a properly noticed board meeting (regular or special) for public input and Board adoption.

Master-Metered Multi-Family Residential Customers

The allocation to residential water customers billed from a master meter which jointly measures water to multiple permanent residential dwelling units (*e.g., apartments, mobile homes, etc.*) shall be allocated the same as single-family residential customers.

Commercial Customers

A monthly water allocation shall be established by the General Manager, or designee, for each nonresidential, non-industrial commercial water customer who

³ Based on Water Code Section 10609.4 for standard indoor residential water use starting in 2025. This attempts to ensure efficient indoor water recognizing the severity of the drought while maintaining standard sanitation practices, if possible.

uses water for processing purposes. The allocation to nonresidential, nonindustrial commercial water customers shall be as follows: 40% of monthly water usage and no irrigation. All restaurants shall only provide water upon request, hotels must only wash linens upon exist of customers, and all commercial customers must post drought conservation messaging.

Industrial Customers

Small Town CSD does not have industrial customers.

CATASTROPHIC Interim Replacement Water Supply for Water Outages

In the event that water outages occur and the City of Small Town intertie is not available, the following is the plan to provide interim alternative water supply for customers to meet short-term public health needs. Longer-term hauling of water directly to the distribution storage tanks would be coordinated with the Office of Emergency Services and CalWARN as soon as possible if the wells and intertie continue to be inaccessible.

Source of Alternative Water Supply:

City of Small Town (Mutual Aid Partner) water hauled to Small Town CSD by Mack's Hauling, a California Department of Public Health certified potable water hauler. Coordination will also be done with the State Water Resource Control Board's Division of Drinking Water and County Environmental Health on any chlorination and special water quality testing or noticing prior to serving hauled water.

Distribution of Alternative Water Supply:

There will be one portable plastic 10,000-gallon storage tank and pump brought in at four strategic locations:

- Happy Kids Elementary School
- Church at 3rd and D Street
- o At Small Town CSD Office
- Grocery Store Parking Lot, 20th and J

The storage tanks, pre-arranged for purchased from Spark's Storage, will be manned from 6 a.m. until 11 p.m. by Small Town CSD staff, retired staff, and/or board members. Residents may come and fill up to 10 gallons of water per person per day⁴. Water will be provided free of charge and may not be sold by

⁴ The World Health Organization (WHO) information on minimum water needs during humanitarian emergencies states that "15 liters per person per day should be provided as soon as possible, though in the immediate post-impact period, it may be necessary to limit treated water to a minimum of 7.5 liters per day per person."

the person receiving the water to others, or used for any purposes other than human consumption, cooking or sanitation.

- Five rented portable restroom trailers will also be provided at each of the water distribution sites. At least one at each location will be handicap accessible.
- Five rented portable heated showers will be set up at the 3rd and D Street Church parking lot using a separate 5,000-gallon portable storage tank. Showering stations will be available from 6 am to 8 pm. Coordination has been provided with the local hospital to provide showers to those in wheelchairs or needing handicap accessible showers.

Additionally, residents that have no transportation or are disabled/elderly and/or may have difficulty obtaining or carrying water may sign up to have bottled water delivered to their home. County Public Health will help coordinate outreach to people registered on the County Vulnerable Persons list. Additionally, American Red Cross volunteers and Self-Help Enterprise staff will organize and deliver bottled water supplies up to 10 gallons per day, in smaller quantities that can be easily handled. Bottled water will be provided by Sparkler's bottled water company. Rotary members and/or County Public Health staff will provide transportation for elderly/disabled community members who lack it to the hospital for showering and other sanitation purposes.

Contracts with the service vendors have been pre-arranged for immediate delivery in the event of a water outage ensuring Small Town CSD top priority during emergency events. Arrangements with community service organizations and County Public Health have similarly been pre-arranged.

If water outages occur only in part of the distribution system, a similar but abridged version of the alternative water supply plan will be initiated to focus only on those parts of the distribution that are impacted.

If bringing in water from a source outside the Small Town area must occur and continue for a longer period of time, water will be shipped to the area on rail cars from a CalWARN mutual aid water supplier, and then hauled directly to the storage tanks and pumped into them. If necessary, boil water orders will be in place until the water quality is stabilized and the distribution system has been determined to be bacteriologically safe. While the boil water orders are in place, bottled water will continue to be provided to residents needing special assistance.

WHO website: https://www.who.int/teams/environment-climate-change-and-health/water-sanitation-and-health/environmental-health-in-emergencies/humanitarian-emergencies

Public Notification Regarding Access to Alternative Water Supplies:

Methods: 1, 2, 3, 4, 5 (flyer/door hanger), 6, 7 and 8 will be utilized to inform residents of the location of alternative water and sanitation access and availability of additional services for the elderly/disabled or those without transportation. American Red Cross and Rotary Club volunteers will also be utilized to provide flyers to homes.

All handout materials will be provided in both English and Spanish. Templates have been pre-prepared and can be immediately printed if needed.

CATASTROPHIC Notification of Emergency Service Providers

If adequate water supply will potentially become unavailable for fire response, medical services, public services, etc., then the following emergency providers will be notified as soon as possible to ensure that adequate planning, response and assistance may be provided:

Local Fire Agency: Shall be contacted immediately when any water outages are believed to be potentially imminent or is occurring in any part of the distribution system.

Critical Service Providers (e.g., hospital, school, elder care, etc.): The hospital, elder care facility and school district shall be immediately contacted when any water outage is believed to be potentially imminent or is occurring in the distribution system that may in any way impact that user. These users, in Small Town CSD, should have backup plans for water provision and hauling that must be implemented immediately.

State Water Board and/or County Environmental Health: The State Water Board's Division of Drinking Water and the County Environmental Health shall be contacted when any water outage is believed to be potentially imminent or is occurring in the distribution system.

County Office of Emergency Services: The County Office of Emergency Services may be contacted when any water outage is believed to be potentially imminent or is occurring in the distribution system as the result of a natural disaster and/or additional County or State support is needed.

Section XI: Enforcement

- (a) No person shall knowingly or intentionally allow the use of water from this water system for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this Plan, or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by General Manager, or designee, in accordance with provisions of this Plan.
- (b) Any person, including a person classified as a water customer of the water system, in apparent control of the property where a violation occurs or originates shall be presumed to be the violator, and proof that the violation occurred on the person's property shall constitute a presumption that the person in apparent control of the property committed the violation, but any such person shall have the right to show that he/she did not commit the violation.
- (c) Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. If a person is in repeated violation of this Plan, the Small Town CSD shall, after the second warning notice to the customer, be authorized to provide a financial penalty of up to \$50 per day for the third notice (not to exceed \$500), and \$200 per day for the fourth and future notices.

Section XII: Variances

The General Manager, or designee, may grant, in writing, a temporary variance for existing water uses otherwise prohibited under this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the health, sanitation, or fire protection for the public or the person requesting such variance and if one or more of the following conditions are met:

- (a) Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.
- (b) Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of this Ordinance shall file a petition for variance with the water system within 5 days after the Plan or a particular drought response stage has been invoked. All petitions for variances shall be reviewed by the General Manager, or designee, and shall include the following:

- (a) Name and address of the petitioner(s).
- (b) Purpose of water use.
- (c) Specific provision(s) of the Plan from which the petitioner is requesting relief.
- (d) Detailed statement as to how the specific provision of the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Ordinance.
- (e) Description of the relief requested.
- (f) Period of time for which the variance is sought.
- (g) Alternative water use restrictions or other measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date.
- (h) Other pertinent information.

A decision on the variance request will be returned to the customer within no more than 5 business days.

While submittal of a variance is required, the following exemptions are pre-approved:

- 1. Use of a residential swamp cooler on days where the ambient temperature is greater than 80° F for residents that can demonstrate a medical need.
- 2. Use of water for the operation of a medical support device needed by a resident.

Appendix A: Water System Information

Small Town CSD provides water to approximately 1,100 residential customers, an elementary school, a 25-bed surgical hospital, a small shopping center, and a 25-bed eldercare facility. Small Town CSD obtains its water from 6 groundwater wells with chlorination treatment and has an emergency intertie to the City of Small Town with a capacity of approximately 200 gallons per minute, or approximately 285,000 gallons per day under 24-hour emergency conditions. The emergency intertie can provide water either direction.

Annually, the water system utilizes approximately 170 million gallons. The maximum monthly usage typically occurs in July with a production of 20.7 million gallons, with peak day demand occurring during the 4th of July holiday. The 10-year average maximum day demand is 760,000 gallons. Total well capacity is estimated to be approximately 21,000 gpm and all wells are drilled to a total depth of 700 feet.

Well Name	Average Production	Average April Elevation,	Average October Elevation,
	(gpm)	feet bgs	feet bgs
Well 01	4,100	60.5	80.4
Well 02	3,500	70.3	91.7
Well 03	2,900	63.8	86.4
Well 04	3,500	66.9	88.3
Well 05	4,500	70.6	95.4
Well 06	2,500	75.2	98.5

(bgs = below ground surface)

The distribution system consists of two pressure zones, Zone 1 and Zone 2. Zone 1 serves approximately 80% of the service connections and one pump station to Zone 2 which serves approximately 20% of the service connections. Pressure Zone 1 has a 1-million-gallon storage tank and Pressure Zone 2 has a 300,000-gallon storage tank.

Experience with past droughts:

After the 2014 drought, the City of Small Town and Small Town CSD agreed to install an emergency intertie. This emergency intertie has been used approximately once per year since that time when either the City of Small Town or Small Town CSD was performing maintenance of their storage tanks and once when City of Small Town's surface water treatment plan was down for two days due to turbidity spikes from fire debris runoff in their watershed. This Plan is updated after every drought to reflect actual reductions seen as a result of the implementation of various conservation practices.



2020 Water Shortage Contingency Plan for Tuolumne Utilities District







2882 Prospect Park Drive, Suite 240 Rancho Cordova, CA 95670 916-858-2700

2020 Water Shortage Contingency Plan

28 June 2021



Tuolumne Utilities District

18885 Nugget Blvd. Sonora, CA 95370

K/J Project No. 2070008.00



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Section 1: Introduction

Section 10632 of the Act details the requirements of the water shortage contingency analysis. The Act states the following:

CWC 10632

(a) Every urban water supplier shall prepare and adopt a water shortage contingency plan as part of its urban water management plan that consists of each of the following elements

(1) The analysis of water supply reliability conducted pursuant to Section 10635.

The Water Shortage Contingency Plan is based in part on Regulation No. 12. The full text of this regulation can be found in Appendix L of the 2020 UWMP.

The purpose of the Water Shortage Contingency Plan is to provide a plan of action to be followed during the various stages of a water shortage. The plan includes the following elements: water supply reliability analysis, annual water supply and demand assessment procedures, water shortage stages, water shortage response actions, communication protocols, penalties/charges/other enforcement of prohibitions, legal authorities, financial consequences, monitoring and reporting, plan refinement procedures, special water feature distinction, resolution or ordinance and references.

In general, TUD's annual combined water supplies of surface water, groundwater and recycled water can meet demand projections through 2045 under the normal, single dry-year and multi dry-year scenarios. This reliability is a result of the historic reliability and availability of the South Fork of the Stanislaus River, groundwater supply, and recycled water for agricultural irrigation. The reliability and vulnerability of the water supply to TUD are discussed in Section 6 of the 2020 Urban Water Master Plan. The annual assessment and safe yield determined for this system demonstrates that water supply is met each year, however an assessment of a potential water shortage that occurs at the end of the year is assessed on an annual basis and is discussed below. Table 1-0 shows the District's near-term water supply reliability assuming 5-year drought.

	2021	2022	2023	2024	2025
Gross Water Use (AF)	17,394	17,597	17,801	18,005	18,058
Total Water Supplies (AF)	23,166	23,175	23,185	23,195	23,205
Surplus/Shortfall w/o WSCP Action (AF)	5,771	5,578	5,384	5,190	5,147
Planned WSCP Action (Use Re	eduction ar	nd Supply	Augmenta	tion)	
WSCP - Supply Augmentation benefit	0	0	0	0	0
WSCP - use reduction savings benefit	0	0	0	0	0
Revised Surplus/Shortfall (AF)	5,771	5,578	5,384	5,190	5,147
Resulting % Use Reduction from WSCP action	0%	0%	0%	0%	0%

Table 1-0: Five-Year Drought Risk Assessment



Section 2: Annual Water Supply and Demand Assessment Procedures

CWC 10632

(a)(2) The procedures used in conducting an annual water supply and demand assessment that include, at a minimum, both of the following:

(A) The written decision-making process that an urban water supplier will use each year to determine its water supply reliability.

(B) The key data inputs and assessment methodology used to evaluate the urban water supplier's water supply reliability for the current year and one dry year, including all of the following:

(*i*) Current year unconstrained demand, considering weather, growth, and other influencing factors, such as policies to manage current supplies to meet demand objectives in future years, as applicable.

(ii) Current year available supply, considering hydrological and regulatory conditions in the current year and one dry year. The annual supply and demand assessment may consider more than one dry year solely at the discretion of the urban water supplier.

(iii) Existing infrastructure capabilities and plausible constraints.

(iv) A defined set of locally applicable evaluation criteria that are consistently relied upon for each annual water supply and demand assessment.

(v) A description and quantification of each source of water supply.

CWC 10632.1

An urban water supplier shall conduct an annual water supply and demand assessment pursuant to subdivision (a) of Section 10632 and, on or before July 1 of each year, submit an annual water shortage assessment report to the department with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the supplier's water shortage contingency plan. An urban water supplier that relies on imported water from the State Water Project or the Bureau of Reclamation shall submit its annual water supply and demand assessment within 14 days of receiving its final allocations, or by July 1 of each year, whichever is later.

2.1 Timeline for Conducting the Annual Assessment

Table 2-1 provides targets for performing the Annual Assessment. The table outlines actions for the current year and one year of drought. By starting to plan in October, TUD will get a snapshot of conditions and can start lining up the resources to mitigate supply and start outreach to customers to manage demand. Major actions are proposed in February, when an initial estimate of supply is made and compared to demand. A final annual assessment is proposed in May.



Table 2-1: Calendar for Performing Annual Assessment				
Target Date	Action			
Oct-Jan	 Monitor supply sources. Monitor demand trends. Coordinate with PG&E for reservoir operations. 			
Jan-May	 Confirm anticipated weather (e.g., National Weather Service Climate Prediction Center, US Drought Seasonal Outlook, PG&E weather forecasts). Prepare initial assessment of supplies using Supply Table 2 Water Supply Assessment January- May. Make initial assessment of demand using Demand Table 1 with climate and new construction adjustments. Make an initial estimate of shortage using Reliability Table 1. If shortage is anticipated, form Water Shortage Task Force. Inform District Board of conditions-begin public outreach. If necessary, declare water shortage and prepare and submit notices of public hearing on water shortage. Monitor supply sources. Monitor demand trends. Maintain coordination with PG&E operations. Monitor customer response to water shortage messaging and other actions. 			
April	15. Complete Draft Annual Assessment.			
Мау	 Present Draft Annual Water Assessment to District Board and update with District Board's input. Finalize Annual Water Assessment and submit to DWR. 			
June-Sept	 18. Continue public outreach. 19. If necessary, declare water shortage and implement supply mitigations and demand reduction actions. 20. Monitor customer response to water shortage messaging and other actions. 			

2.2 Factors Affecting Demand and Supply

The driest year on record for nearly 100 years (1977) provided enough precipitation and flow in the SFSR to fill Lyons Reservoir and Pinecrest Lake. Once the reservoirs are full, the District's demand can be met for the year, as described in Chapter 3 and 6 of the Urban Water Management Plan. However, a minimum amount of precipitation needs to occur in each year and PG&E needs to leave a minimum storage volume in each year to ensure this happens. These precipitation patterns and storage levels are assessed beginning late in each calendar year. The water supply cycle is considered to start around December when both Lyons Reservoir and Pinecrest Lake are drawn down to low storage levels. Precipitation normally begins sometime between late October and early December. By the turn of the calendar year, precipitation patterns become active. By February 1st, the first snow surveys are published by the State. On that date the district can evaluate early supply forecasts. First the District can



evaluate if the reservoirs will fill. Second, the District considers if any demand reduction would be required for the year. Water shortages could occur during this period if weather patterns have not been established by January and may result in water use reduction early due to low reservoir levels before the reservoir fill cycle starts. The process is outlined below. Additionally, TUD may experience water shortages in the summer due to regulatory conditions that may be placed on the Phoenix Hydrologic Project reducing the volume of storage in Lyons Reservoir available to TUD under the FERC relicensing process taking place in 2021. TUD may update this potential affect depending on the outcome of the relicensing efforts process as the writing of this document.

TUD monitors weather forecast information provided from publicly available information sources including National Oceanic and Atmospheric Administration (NOAA) and the National Weather Service publications starting in October of each year. TUD also monitors the Department of Water Resources (DWR) Bulletin 120 reports providing an estimate of water year runoff as early as February 15th of each year.

TUD monitors daily storage readings provided by PG&E for both Lyons Reservoir and Pinecrest Lake. In particular, the drawdown of Pinecrest Lake storage during the October-December period for planning and mitigating potentially dry conditions through the turn of the calendar year. In addition, TUD carefully monitors the drawdown of Lyons Reservoir storage during the summer months prior to Labor Day due to potential restrictions of Pinecrest Lake storage to TUD.

Snow depth readings are posted to the California Data Exchange Center (CDEC) for two snow monitoring stations located in and near the watershed to Pinecrest Lake. These readings are posted daily under the California Data Exchange Center (CDEC) web site. These snow depth readings provide a measure of the estimated SFSR runoff and are used to establish water availability to fill the reservoirs and thus water supply for the year.

US Drought Information Seasonal Outlook. The National Weather Service Climate Prediction Center provides information geographically on drought conditions and categorizes geographies as "Drought Persists," "Drought Remains but Improves," "Drought Removal Likely," and "Drought Development Likely."

2.3 Assessing Supply in Current Year and One Dry Year

The District will evaluate the local water sources available and the District's infrastructure status. Table 2-2 summarizes the factors to be considered.

Using Table 2-1 as a guide, TUD will develop a summary of the surface water source available in the upcoming year assuming the subsequent year will be a dry year. TUD will develop Supply Tables 1 and 2 (Table 2-3 and Table 2-4), in which a quantified summary of the surface water source for the months of January- May and the upcoming year assuming the subsequent year is a dry year. Anticipated water supply will be forecasted using past supply patterns.



Table 2-2: Annual Assessment of Supply					
Source/Supply Infrastructure	Factors to be Evaluated in Current Year	Establishing Supply in Assumed Subsequent Dry Year			
South Fork Stanislaus River, Snow and Reservoir Storage	Will the reservoirs fill? Will there be an early end of spill? Any constraints on supply due to infrastructure or water quality. If Lyons drops too low Coordinate with PG&E operations to limit diversions to the MFSR to safeguard supply if pending drought conditions.	The estimated demand is relatively stable. The required flow in the main canal on a daily or monthly basis each year is relatively predictable but can vary with relatively hot temperatures. The demand is otherwise known within a range of approximately 10%. A demand assessment is assumed slightly higher than the average of the previous 5 years anticipating unforeseen spikes in demand. Any constraints on supply due to infrastructure or water quality.			
Groundwater	Regulatory limitations per Federal, State and Local Agencies. Past prolonged drought resulted in over 150 well failures in Tuolumne County and may impact TUD wells. Consider if supply would be managed differently if it is known subsequent year will be dry year.	Regulatory limitations per Federal, State and Local Agencies. Any constraints on supply due to infrastructure or water quality per Federal, State and Local Agencies.			
Recycled water	What is current annual recycled water production capability? What is current annual demand + new (12 months) demand?	What is current annual recycled water production capability? What is current annual demand + new (24 months) demand?			

Table 2-3 depicts the annual Water Supply Availability in the following five years for the surface water, ground water and recycled water. Based on the safe yield of the surface water and using 50% availability of the ground water supply in a dry year. The following water supply is anticipated to be available in the next five years.



Table 2-3: Annual Water Supply Capacity (Supply Table 1)						
Source 2021 2022 2023 2024 2025						
Water from PG&E	20,100	20,100	20,100	20,100	20,100	
Groundwater	733	733	733	733	733	
Recycled water	1,600	1,610	1,620	1,630	1,640	
Total	22,433	22,443	22,453	22,463	22,473	

Table 2-4 provides a framework to compare the current surface water storage availability for the combined Lyons Reservoir and Pinecrest Lake storage and estimated volume of runoff from the known snow accumulation for the first four months of the calendar year which could be a "pinch point" in the water supply. To manage this, TUD meets with PG&E in the period between October- December to ensure that deliveries of supplemental supply are fulfilled to Lyons Reservoir and that Pinecrest Lake drawdown storage levels are not depleted too far if dry conditions persist through the November December period.

Table 2-4: Water Supply Assessment January-May (Supply Table 2)					
Total Water Available by Month (acre-feet)	Lyons Reservoir Storage (acre-feet)	Pinecrest Lake Storage (acre-feet)	Estimated runoff from snow measurements (SWE) (acre-feet)	Total (acre-Feet)	
Jan					
Feb					
Mar					
Apr					
May					

Supply Table 2 Water Supply Assessment January- May

Notes:

1. PG&E provides daily readings to TUD for Lyons Reservoir and Pinecrest Lake.

 Also available form data obtained from United States Geological Survey (USGS) National Water Information System: Web Interface, USGS Water Resources. <u>https://waterdata.usgs.gov/</u>



2.4 Water Demand Assessment

DWR guidance for the Annual Assessment is to consider the expected water use in the upcoming year, based on recent water use, and before any projected response actions a Supplier may trigger under its Water Shortage Contingency Plan.

2.4.1 Land Use

To evaluate water demand, the District will examine current and projected land uses. The County and the City of Sonora are the only two land use planning agencies that have such responsibilities within TUD's Treated Water Service Area. A summarized total of the existing land use within the District service area through the end of the recent water year will be developed. All construction plans for properties within District boundaries require District review and approval as discussed in section 1.2.1 Relationship to Other Planning by Water Agency.

2.4.2 Current Demand

The District will create Demand Table 1 (Table 2-5) that will summarize the total monthly demand for the most recent complete water year by: treated water production, raw water deliveries, and other uses and losses in the conveyance system. Based on the District's historic water demand data, a <x%> of water demand increase is anticipated assuming the subsequent year will be a dry year. The estimated subsequent year demand is estimated at <xxxx> acrefeet as presented in Demand Table 1.

Additionally, any anticipated additional annual demands from "Under Construction and Approved Projects" will be included in Demand Table 1. The calculations for the new demand will use the most recently developed demand factors inclusive of water loss and including a contingency to account for annual demand variations that are likely to occur.

Additionally, the near-term water demands are shown as the sum of the demands reflected for the current year demands adjusted for climate and adjusted for any anticipated additional annual demand from "Under Construction and Approved Projects" and shown in Demand Table 1.



Table 2-5:	District's Annual Demand (Demand Table 1 with climate and
new constr	uction adjustments)

	Treated Water Production (acre-feet)	Raw Water (acre-feet)	Supply Water Conveyance: Est. Uses & Losses (acre-feet)	Total (acre-feet)		
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
		<year></year>	Current Demand Total			
Climata Adius	tmont		Hot Weather Factor	<x%></x%>		
Climate Adjustment		SILAR>	Hot Weather Demand Total			
Pending New Connections Adjustment			Projection Factor	<x%></x%>		
		SIEAR>	Pending Add. Demand Total			
Total Demand w/ Adjustments		<year +1=""></year>	Near-Term Demands Total			



2.5 Assessing Water Supply Reliability

DWR 2020 UWMP Guidebook

While the first Annual Assessment is not required to be submitted to DWR until July 1, 2022, Suppliers are encouraged to use the procedures documented in its WSCP to prepare and include the outcome of an Annual Assessment for 2021, and to present the results in their UWMP as an example.

Further, although the Annual Assessment must be submitted to DWR on or before July 1 of every year, an early Annual Assessment allows Suppliers and customers to identify uncertainties and prepare financially and logistically for any anticipated water supply constraints in the coming months. Therefore, Suppliers are encouraged to develop procedures, including decision-making processes, that facilitate early analysis and adoption.

The District will first, compare Supply Table 2 with the demands shown in Demand Table 1 for January – March and determine if a supply shortage is anticipated during the "Pinch Point", the level of shortage, and prepare if necessary to implement its Water Shortage Contingency Plan.

The District will second, compare Supply Table 1 and Demand Table 1 as shown in Reliability Table 1 (Table 2-6) and determine if a supply shortage is anticipated for the year, the level of shortage, and prepare, if necessary, to implement its Water Shortage Contingency Plan.

Table 2-6: District Water Reliability (Reliability Table 1)					
	Demand (acre-feet)	Supply (acre-feet)	Supply/Deficit (acre-feet)		
January					
February					
March					
April					
Мау					
June					
July					
August					
September					
October					
November					
December					
Total					



2.6 **Coordination with Cities and Counties**

Should a water shortage be declared, TUD will coordinate with any agencies within which it provides water supply services for the possible proclamation of a local emergency, as defined in Section 8558 of the Government Code.



Section 3: Six Standard Water Shortage Stages

CWC 10632(a)(3)

- (A) 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.
- (B) An urban water supplier with an existing water shortage contingency plan that uses different water shortage levels may comply with the requirement in subparagraph (A) by developing and including a cross-reference relating its existing categories to the six standard water shortage levels.

3.1 Definitions/Criteria Establishing Shortage

TUD has grouped the actions to be taken during a water shortage into six phases that are based on the water supply conditions in each year. This six-phase rationing plan includes both voluntary and mandatory rationing, depending on the causes, severity, and anticipated durations of the water supply shortage (i.e., customer conservation target). Table 3-1 describes the water supply shortage phases and conditions. The phases will be implemented during water supply shortages according to shortage level, ranging from normal conditions in Phase I (forecasted water runoff into Lyons Reservoir to be greater than 50 percent of normal) to emergency conditions in Phase IV (immediate water shortage or outage). The specific actions to be undertaken during each water shortage supply phase are listed in Regulation No. 12 included in Appendix L of the 2020 UWMP.

Table 3-	Table 3-1:Water Shortage Contingency Plan and TUD Regulation No. 12Shortage Levels				
Water Shortage Contingency Plan			TUD Regulation No. 12		
Shortage Level	Percent Shortage Range	Shortage Response Actions	Shortage Phase		
1	Up to 10%	Greater than 50% of normal forecasted flow of the Bulletin 120 for the Stanislaus River	Phase 1 (Ongoing Water Education and Management) and Phase 2 (Conservation Measures)		
2	Up to 20%	Less than 50% of normal forecasted flow of the Bulletin 120 for the Stanislaus River	Phase 2 (Conservation Measures)		
3	Up to 30%	Less than 30% of normal forecasted flow of the Bulletin 120 for the Stanislaus River	Phase 2 (Conservation Measures)		

Table 3-1:Water Shortage Contingency Plan and TUD Regulation No. 12Shortage Levels

Water Shortage Contingency Plan		TUD Regulation No. 12	
Shortage Level	Percent Shortage Range	Shortage Response Actions	Shortage Phase
4	Up to 40%	Less than 10% of normal forecasted flow of the Bulletin 120 for the Stanislaus River	Phase 2 (Conservation Measures)
5	Up to 50%	Emergency-Catastrophic water Restriction	Phase 3 (Critical Water Years)
6	>50%	Emergency-Catastrophic water Restriction	Phase 4 (Emergency Water Restriction)

NOTES:

1. DWR Stages correspond with TUD Regulation 12 Phases.

2. Per Regulation 12, TUD may implement Phase III "whenever it determines that the amount of available water supply may be less than the projected water system demand."

Under emergency water conditions resulting from sudden catastrophic events, TUD will activate the Phase IV Emergency Water Restrictions outlined in Regulation No. 12 of the TUD Rules and Regulations in parallel with WSCP Water Shortage Stages. However, under slowly developing drought or climate changing conditions, the planning effort occurs much differently and is assessed on a sliding scale of changing conditions. The phase determination and declaration during a water supply shortage will be made by the District Board of Directors in accordance with Regulation No. 12.

3.2 Determining Water Shortage Reductions

TUD utilized available water meters to analyze actual water use reduction. Currently TUD's service area is 100% percent metered consisting of approximately 40 percent metered with 60 percent of meters fitted with AMR technology allowing for scheduled and/or special reading capabilities. TUD can use customer meters to determine customer consumption data for a specific user based on hourly, daily and/or monthly water consumption depending on the type of meter installed. TUD can monitor long-term water use through Bi-monthly meter readings, which provide TUD the ability to identify exceptionally high usage for verification of water loss or abuse. In addition, TUD can use production meters to determine water losses within a distribution based on hourly, daily and/or monthly readings.

During a water shortage, the procedure that TUD would use to determine actual reductions of water is as follows:

- 1. Comparison of treated water supply production for each distribution system on a daily basis to determine if the usage is reduced accordingly.
- 2. If conservation reductions are not met based on the supply production analysis, then a reading of water meters on that distribution system would be initiated to find the violators and to begin notifications, restrictions, penalties, etc.



- 3. Field employees will be deployed to provide reports of any observed water use that is restricted by Regulation No. 12.
- 4. Distribution systems will be field inspected for theft or other uncontrolled system losses if the production flow meters that serve them do not show the expected reduction of water use.

3.3 Actions to Prepare for Catastrophic Interruption

The Act requires documentation of actions to be undertaken by the water supplier to prepare for and implement during a catastrophic interruption of water supplies which are further described below. A catastrophic interruption constitutes a proclamation of a water shortage and could result from an event (either natural or man-made) that causes a water shortage severe enough to classify as a Phase VI WSCP water supply shortage condition.

3.3.1 Emergency Response Plan

In the event of a water shortage catastrophe, the TUD Board of Directors would call for a State of Emergency which would implement actions as outlined in the Emergency Response Plan (ERP) and Regulation No. 12:

- 1. Immediately notify appropriate media outlets, and post local road signage notifying the public of the current water use restrictions.
- 2. Hold a public hearing, as soon as feasible, during which customers shall have the opportunity to present their comments to the Board.
- 3. Following a public hearing the Board of Directors may implement Phase VI WSCP/ Phase IV Regulation No. 12 measures whenever water supply has been disrupted either for individual water system(s) or for the District's system as a whole. Specific water reduction goals will be set by Board resolution.

The District shall proclaim through resolution that a state of emergency exists and shall remain in effect until the water supply has been restored.

TUD is authorized under the California Emergency Services Act (Chapter 7, Article 9.5. California Government Code) to conduct emergency operations. In April 2019, the District updated the previously adopted ERP which includes standardized responses to a variety of natural and human caused incidents. The District's ERP is consistent with the standardized emergency management system (SEMS) adopted by the State and was developed pursuant to an agreement entitled "Tuolumne County Operational Area Agreement" dated 16 January 1996 between the County, City of Sonora, TUD and seven (7) other special districts within the County which established standards for emergency response plans. The statewide SEMS substantially meets the objectives of the Federal National Incident Management System.

TUD maintains the District's ERP that documents actions to be undertaken to prepare for and implement during a catastrophic interruption of water supply including those caused by power outages and natural disasters. The ERP is discussed below in terms of the details required for UWMPs.



TUD has developed an ERP designed to assist TUD in its response and management of a wide variety of emergencies or disasters including power outages and earthquake or other disasters. ERP is maintained and reviewed annually and is described below in more detail.

From a utility's perspective, in an emergency or disaster situation there are a series of steps that should be taken to effectively respond and minimize any adverse consequences (from AWWA, *Emergency Planning for Water Utilities*, 2001 ed).

These steps are as follows:

- Analyze the type and severity of the emergency.
- Provide emergency assistance to save lives.
- Reduce the probability of additional injuries or damage.
- Perform emergency repairs based on priority demand.
- Return system to normal levels (recovery).
- Evaluate response and the effectiveness of the emergency response plan.
- Revise plan as necessary.

A Standardized Emergency Management System (SEMS) for use by all emergency response agencies is specifically established by Section 8607, et seq. of the Act. Tuolumne Utilities District (District) entered into an agreement entitled "Tuolumne County Operational Area Agreement" with the County of Tuolumne, City of Sonora and seven other special Districts on January 16, 1996, which standardized emergency response plans and provided the basis for the SEMS response.

In February 2005, the President G. W. Bush authorized the Secretary of the Department of Homeland Security to develop and administer a National Incident Management System (NIMS), which would provide a consistent nationwide approach for federal, state, local, and tribal governments to work together more effectively and efficiently to prevent, prepare for, respond to, and recover from disasters, regardless of cause, size, or complexity. In 1993, California, through its Office of Emergency Services, was the first state to adopt a statewide SEMS for use by every emergency response organization. The California SEMS substantially meets the objectives of the Federal NIMS. In April 2019, the District updated the previously adopted the TUD Emergency Response Plan (ERP) which includes standardized responses to a variety of natural and human caused incidents. The District ERP is consistent with SEMS adopted by the State of California.

The District also therefore has implemented the NIMS as well as SEMS outlines for emergency response and implements this Emergency Response Plan to enhance its NIMS and SEMS response and to protect the public when an emergency occurs or a disaster strikes--the goal being to remedy any adverse impacts as efficiently as possible and return to normal operating procedures.

This Plan is designed to meet EPA requirements for ERP certification as specified by Amendments to the Safe Drinking Water Act, titled "The Public Health Security and Bioterrorism Preparedness and Response Act of 2002" (PL 107-188, referred to as the Bioterrorism Act). The Bioterrorism Act amends the Safe Drinking Water Act (SDWA) by adding, among other requirements, section 1433. Section 1433(b) requires community water systems (CWS) serving



populations greater than 3,300 to either prepare or revise an ERP that incorporates the results of its Vulnerability Assessment (VA).

The ERP must include "plans, procedures, and identification of equipment" that can be implemented or utilized in the event of a terrorist or other intentional attack" on the CWS. The ERP also must include "actions, procedures, and identification of equipment" which can obviate or significantly lessen the impact of terrorist attacks or other intentional actions on the public health and the safety and supply of drinking water provided to communities and individuals."

TUD has completed classified Security Vulnerability Assessments on its four systems that fall under the above category. Said Assessments were reviewed by the TUD Board of Directors in a closed session and forwarded to the EPA in June 2004. This Plan incorporates the results of those assessments in the response plans outlined in the following chapters. In December 2010, the District completed its Vulnerability Assessment Certification.

TUD has updated the Local Hazard Mitigation Plan (LHM Plan) that addresses natural hazards that may affect the critical components to its system. The LHM Plan was adopted by the District Board of Directors in December 2017.

Table 3-2 describes the possible catastrophic situations and associated actions. Descriptions of each situation are provided in the subsections below.

Table 0-21 Tossible outastrophic offactions and Actions			
Possible Catastrophic Situation	Type and Quality of Data Expected		
	Command chain is defined that dispatches District crews to operate generators and monitor operations.		
Regional Power Outage	Criteria and procedures are provided to return system to normal operations. A plan contains contact information for responsible parties and supportive services.		
	Applicable provisions of District water shortage contingency plan are instituted as required to address supply interruptions.		
	Command chain is defined that dispatches District crews to operate generators and monitor operations.		
Paw Water Conveyance System	Operations response crews assigned to monitor system operations and modify as necessary.		
Disruption	Communication command chain is defined to coordinate with other local water agencies and emergency response officials as necessary.		
	Applicable provisions of District water shortage contingency plan are instituted as required to address supply interruptions.		

Table 3-2: Possible Catastrophic Situations and Actions



Table 3-2: Possible Catastrophic Situations and Actions				
Possible Catastrophic Situation	Type and Quality of Data Expected			
Main Tuolumne Canal Interruption	Applicable provisions of District water shortage contingency plan are instituted as required to address supply interruptions.			
	Regional groundwater sources are activated as available to offset surface water shortages.			

3.3.1.1 **Regional Power Outage**

In the event of a power-outage, the District implements those sections of the ERP according to what level of outage the area is experiencing. In particular, critical water and wastewater infrastructure can be served by stand-by power. The District maintains automatic backup generators at their headquarters (which is also designated as an official Emergency Command Center) at all wastewater pump stations, the RWWTP, most WTPs, and other selected operational facilities. In addition to the static standby generators, mobile generators are available and can be dispatched to facilities to provide stand-by electric power where required. During power outages, the TUD generates power from these sources to maintain system operations. The District's main supply of water is delivered from a higher elevation which is gravity fed to areas of consumption. Thus, power outages do not interrupt the source of raw water to the District's surface WTPs.

3.3.1.2 **Raw Water Conveyance System Damage**

The open ditch/flume raw water conveyance system from Lyons Reservoir to distributions points within the TUD Treated Water System could be subject to vulnerability due to wildfires, and storm conditions including heavy rain, heavy snow, flood, erosion, landslide, as well as other natural disasters. Flume structures are especially vulnerable due to boulders and other debris that could potentially dislodge upslope of the conveyance facilities and damage one of more of these flume structures below it. Damage to the flume structure that would then implement the emergency measures as documented in the ERP.

3.3.1.3 Main Tuolumne Canal Interruption

The Main Canal system is owned, operated, and maintained by PG&E. Other than communicating with customers regarding conservation in the event of an outage, the District does not have the authority to respond to outages. TUD is currently assessing options to mitigate a water shortage resulting from the loss of Main Canal conveyance, including:

- Development of a hazard evaluation and reduction plan,
- Implementing a framework for a cooperative agreement with PG&E for emergency response plans to address a Main Tuolumne Canal failure,



- Investigating alternatives to prepare or safeguard against such failures, and
- Reviewing security and operations of other agencies with similar water conveyance infrastructure issues.

3.4 Seismic Risk Analysis

CWC 10632.5

- (a) In addition to the requirements of paragraph (3) of subdivision (a) of Section 10632, beginning January 1, 2020, the plan shall include a seismic risk assessment and mitigation plan to assess the vulnerability of each of the various facilities of a water system and mitigate those vulnerabilities.
- (b) An urban water supplier shall update the seismic risk assessment and mitigation plan when updating its urban water management plan as required by Section 10621.
- (c) An urban water supplier may comply with this section by submitting, pursuant to Section 10644, a copy of the most recent adopted local hazard mitigation plan or multihazard mitigation plan under the federal Disaster Mitigation Act of 2000 (Public Law 106-390) if the local hazard mitigation plan or multihazard mitigation plan addresses seismic risk.

TUD updated the water elements of the Tuolumne County Local Hazard Mitigation Plan (LHMP) which was adopted by the County Board of Supervisors December 2017. TUD adopted a resolution March 13, 2019, approving the water elements and the LHMP. The LHMP can be found at the link provided in Appendix P of the 2020 UWMP. Sections of the LHMP address natural hazards including geologic hazards in Tuolumne County associated with potential seismic activity along the Foothills fault zone and associated ground shaking. The report further represents those peak accelerations in the developed portions of the County do not exceed 20 percent gravity which puts the County in the lowest potential for the entire state representing a minimal risk to TUD.

TUD has performed and completed the Risk and Resiliency Assessments (RRA) on all TUD assets in accordance with the Guidance for Small Community Water Systems on Risk and Resilience Assessment under America Water Infrastructure Act including an assessment related to seismic activity that could potentially impact TUD facilities. The assessment certification statements for each TUD system were submitted electronically to the EPA in March 2021.

TUD maintains an Emergency Response Plan Updated in 2020 that addresses natural disasters including earthquakes and the potential damage to TUD facilities due to seismic activity and the response to such events. The RRA will be incorporated in the ERP and is scheduled to be certified in June of 2021.

A Seismic Assessment Report was prepared as part of the comprehensive study completed in 2012 that assessed the vulnerability of the PG&E owned and operated Main Tuolumne Canal, including an assessment of mitigation alternatives. As a result of this study, the TUD ERP includes an Emergency Response Guide to address mitigations related to a Main Tuolumne Canal failure.



Water supply is met each year from storage provided by Lyons Dam as part of the Federal Energy Regulatory Commission Phoenix Hydroelectric Project #1061 and Strawberry Dam as part of the FERC Spring Gap Stanislaus Hydroelectric Project #2130. FERC requires that the owner/operators of these dams prepare and update the FERC Part 12D Safety Inspection Reports for these hydroelectric facilities every five years. The latest update to these reports is dated November 2017. The inspections consist of a comprehensive analysis of all elements of the dam and includes a significant assessment of seismicity related to the dam and facilities. The reports are confidential and kept on file with FERC and the Department of Water Resources, Division of Dam Safety (DSOD).

Although there are many elements of the District's infrastructure in need of replacement or rehabilitation, the critical elements are included in the District's 5 year or current year CIP. All the District's new construction and rehabilitation projects will be following the latest codes and standards to maintain the low seismic risk throughout the system.



Section 4: Water Shortage Response Actions (by Shortage Stage)

CWC 10632 (a)(4)

Shortage response actions that align with the defined shortage levels and include, at a minimum, all of the following:

(A) Locally appropriate supply augmentation actions.

(B) Locally appropriate demand reduction actions to adequately respond to shortages.

(C) Locally appropriate operational changes.

(D) Additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions.

(E) For each action, an estimate of the extent to which the gap between supplies and demand will be reduced by implementation of the action.

Stages of Action to Respond to Water Shortages

4.1 Supply Augmentation Actions

Any water shortage event should trigger a review of potential sources for supplemental water supply. Potential sources for supplemental water include increasing use of ground water and securing water transfer via New Melones from a willing seller.

The water shortage contingency plan establishes the period during which supply augmentation will likely be in effect, as needed. Table 4-1 summarizes the planned supply augmentation actions that the District could apply during different stages of shortage.

Table 4-1: Supply Augmentation and Other Actions					
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap? Include volume units used.	Additional Explanation or Reference <i>(optional)</i>		
I	Other Action	0%	No Supply Augmentation		
II	Other Action	0%	No Supply Augmentation		
III	Other Action	0%	No Supply Augmentation		
IV	Transfers	10%	Emergency Purchase of water from local seller		
V	Transfers	20%	Emergency Purchase of water from local seller		
VI	Transfers	30%	Emergency Purchase of water from local seller		
NOTES:					

4.2 Demand Reduction Actions

Regulation No. 12 Water conservation Phase I-IV details the various prohibitions and sets forth water use violation fines, charges for removal of flow restrictors, as well as establishes the period during which mandatory conservation and rationing measures will be in effect. The prohibition on various wasteful water uses, include, but are not limited to, hose washing of sidewalks and driveways using potable water and cleaning or filling decorative fountains.

Table 4-2 summarizes the voluntary and mandatory water use conservation, restrictions, and prohibitions for each WSCP Stage I-VI. Table 3-2 also lists the estimated percent reduction associated with each Demand Reduction Action. During actual implementation of each Demand Reduction Action, the District would track the actual reduction in water treatment plant production to monitor effectiveness.

Table 4-2: Demand Reduction Actions					
Shortage Level	Demand Reduction Actions	Estimated Reduction of Shortage Gap	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement	
I	Expand Public Information Campaign	7%	Voluntary water use reduction and public notices	No	
I	Landscape - Restrict or prohibit runoff from landscape irrigation	2%	N/A	No	
I	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	1%	N/A	No	
II	Expand Public Information Campaign	3%	Voluntary water use reduction and public notices	No	
II	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	1%	Send notices to high water users.	No	
11	Landscape - Restrict or prohibit runoff from landscape irrigation	2%	N/A	No	
II	Landscape - Limit landscape irrigation to specific times	2%	N/A	No	
II	Reduce System Water Loss	1%	N/A	No	
11	Other	1%	Review accuracy of water meters	No	
III	Expand Public Information Campaign	1%	Water use reduction and public notices	No	



Table 4-2: Demand Reduction Actions					
Shortage Level	Demand Reduction Actions	Estimated Reduction of Shortage Gap	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement	
111	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	1%	Send notices to high water users	No	
Ш	Decrease Line Flushing	1%	N/A	No	
	Landscape - Restrict or prohibit runoff from landscape irrigation	1%	Send notices to high water users	Yes	
111	Landscape - Limit landscape irrigation to specific times	1%	Send notices to high water users	Yes	
111	Landscape - Limit landscape irrigation to specific days	1%	N/A	Yes	
111	Landscape - Restrict or prohibit runoff from landscape irrigation	1%	N/A	Yes	
111	Water Features - Restrict water use for decorative water features, such as fountains	1%	N/A	Yes	
111	Reduce System Water Loss	1%	N/A	No	
	Pools and Spas - Require covers for pools and spas	1%	N/A	No	
IV	Other - Require automatic shut of hoses	1%	N/A	No	
IV	Landscape - Limit landscape irrigation to specific days	1%	Send notices to high water users	Yes	
IV	Landscape - Prohibit certain types of landscape irrigation	1%	Send notices to high water users	Yes	
IV	Other - water feature or swimming pool restrictions	1%	Send notices to high water users	Yes	
IV	Other - Prohibit use of potable water for construction and dust control	1%	Send notices to high water users	Yes	
IV	Other - Prohibit use of potable water for washing hard surfaces	1%	Send notices to high water users	Yes	
IV	Other - Prohibit vehicle washing except at	1%	Send notices to high water users	Yes	


Table 4-2: Demand Reduction Actions						
Shortage Level	Demand Reduction Actions	Estimated Reduction of Shortage Gap	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement		
	facilities using recycled or recirculating water					
IV	CII - Lodging establishment must offer opt out of linen service	1%	Send notices to high water users	Yes		
IV	CII - Restaurants may only serve water upon request	1%	Send notices to high water users	Yes		
IV	CII - Commercial kitchens required to use pre-rinse spray valves	1%	Send notices to high water users	Yes		
V	Increase Water Waste Patrols	1%	N/A	No		
V	Landscape - Other landscape restriction or prohibition	7%	Send notices to high water users	Yes		
V	CII - Other CII restriction or prohibition	2%	Send notices to high water users	Yes		
VI	Landscape - Prohibit all landscape irrigation	10%	Send notices to high water users	Yes		

NOTES:

1. TUD's Rules and Regulations states the enforcement of violations shall result in the following penalties:

a. First violation, customer would receive a phone call or written warning about excessive water use from the District that a further violation will result in possible water restrictions and imposing of fines;

b. Second violation, after initial contact regarding the first violation, is a second violation is recorded a restrictor may be installed and an \$80 charge will be billed to the customer's account. The customer will need to show proof that they have reduced their water use before the restrictor is removed;

c. Third violation, a \$500 penalty may be charged to a customer upon a third violation of not reducing to the mandatory water reduction. The customer continues to violate water restrictions they may have their water discontinued for excessive water use.

During Stages I and II, water use conservation is voluntary, and the District conducts public outreach and education. Beginning with the activation of a Stage III water shortage condition, water use conservation is mandatory and water use would be restricted. Runoff of landscape irrigation will be restricted, and pool will be required to remain covered when not in use. Stage IV, swimming pools will be placed under restriction, landscape watering will only be permitted during specific days and times. Industrial, commercial, and raw water users would be restricted to minimal sustainable operations as the flow in the open conveyance ditch system will be strictly reduced to minimize the open ditch and flume system losses. Second time (and above) violators face imposition of flow restriction devices and penalties as listed in the Enforcement section of Regulation No. 12 (paragraph 12.04). The following sections provide additional detail on water use prohibitions for landscape irrigation; commercial, industrial, and institutional water use; and water features and swimming pools.



4.2.1 Landscape Irrigation

Stage I Restrictions and Prohibitions are based on beneficial uses and water use reductions to meet SBX7-7 Compliance Water Use. Stage II Restrictions and Prohibitions are voluntary and limit landscape watering.

Stage III/IV Restrictions and Prohibitions are mandatory and restrict landscape watering and are subject to fines upon violation. Limited outdoor irrigation is requested with the use of buckets or properly maintained irrigation drip systems. Outdoor watering will be limited to 10 minutes per cycle for spray systems and no longer than 30 minutes per cycle for drip systems. Property addresses ending in an even number shall confine their outside usage to Tuesday, Thursday and Saturday, those with an odd number shall confine their outside usage to Wednesday, Friday and Sunday. All irrigation shall occur between the hours of 7 p.m. and 10 a.m. No watering on Mondays.

Stage V/VI Restrictions and Prohibitions are mandatory and eliminate all lawn watering and limit landscape water and are subject to fines upon violation without justification. Landscape/outdoor watering by hose or by use of water directly from faucets or outlets connected to the public water supply shall be prohibited.

4.2.2 Commercial, Industrial, and Institutional (CII)

All Restrictions and Prohibitions for Landscape Irrigation apply to the CII classification as well.

Stage I Restrictions and Prohibitions are based on beneficial uses and water use reductions outlined in the demand management measures. Stage II Restrictions and Prohibitions are voluntary and do not restrict landscape watering.

Stage III/IV Restrictions and Prohibitions are mandatory and restrict landscape watering and are subject to fines upon violation. The District will send notices to high water use customers and require all possible water conservation measures such as use of pre-rinse spray valves for commercial kitchens to be put into action in order meet the system wide reduction goal and initiates a water usage audit.

Stage IV/VI Restrictions and Prohibitions are mandatory and eliminate all lawn watering and limit landscape water, subject to fines upon violation without justification. Customers shall reduce consumption to the lowest possible amount which would allow continued operation. Conservation measures to be taken shall be established on an individual basis by the District.

4.2.3 Water Features and Swimming Pools

Water use in decorative water features, such as fountains, and recreational features, such as ponds and swimming pools, are considered non-essential water use except for that needed to preserve aquatic life.

Stage III will require swimming pools to remain covered when not in use to eliminate water evaporation. Stage III will restrict water use for decorative water features, such as fountains.



During Stages IV, the District does not specifically restrict water use for maintenance swimming pools but restricts filling new pools during Stage V.

During Stage IV and V, the District will restrict use of water in decorative fountains, recreational ponds and the like shall be limited to the minimum necessary to preserve aquatic life if present.

4.3 **Operational Changes**

To maintain a safe and proper operating system the District performs all necessary maintenance and line flushing during the wet months of the year. Typically, this takes place between January through April. During Stage III the District will reduce unnecessary line flushing.

The District will implement monthly water use analysis and track excessive customer water use. The analysis will be based on historical water use per customer per month. Those customers with excessive water use will be notified of their excessive use and asked to repair any leaks or limit their water use in accordance with Regulation No. 12.

Water waste patrols will take effect under Stage V conditions. Violators will have penalties placed on their accounts and will be advised to repair all sources of water waste.

4.4 Additional Mandatory Prohibitions

In addition to prohibitions during water supply shortage events requiring a voluntary or mandatory program, the District initiates public outreach to all water customers advising of low water year and requesting reduction from previous year's usage if possible. TUD will make available to its customers water conservation kits containing information on conservation methods as well as advising customers of the monetary impact as required by Regulation No. 12. Additional consumption reduction methods include requiring low-flow fixtures in new developments and providing an ultra-low flow toilet rebate program.

During a Stage III water shortage condition, notices will be sent to high water users and metered domestic excessive users will be serviced water under a lifeline rate structure. Stage IV water use would be restricted to eliminate such uses as washing vehicles. During a Stage IV shortage, excessive water use results in installation of flow-restricting device on service connection, and removal upon payment of \$80.00. Landscape irrigation resulting in water runoff and filling swimming pools would be prohibited. Industrial, commercial, and raw water users would be restricted to minimal sustainable operations as the flow in the open conveyance ditch system will be strictly reduced to minimize the open ditch and flume system losses. Second time (and above) violators face imposition of flow restriction devices and penalties as listed in the Enforcement section of Regulation No. 12 (paragraph 12.04). Table 4-2 summarizes the various prohibitions and the phases during which the prohibition becomes mandatory.



Section 5: Communication Protocols

CWC 10632 (a)(5)

Communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments, regarding, at a minimum, all of the following:

(A) Any current or predicted shortages as determined by the annual water supply and demand assessment described pursuant to Section 10632.1.

(B) Any shortage response actions triggered or anticipated to be triggered by the annual water supply and demand assessment described pursuant to Section 10632.1.

(C) Any other relevant communications

5.1 Public Outreach Response

The District has a history of working with community partners during any crisis. The public can reference The Water Shortage Contingency Plan in case of drought, or another water related natural emergency. The District would alert the Tuolumne County Office of Emergency Services to the impacts that could face residents and TUD customers. Other stakeholders to be contacted include:

- Tuolumne County Board of Supervisors
- City of Sonora Council
- Local water suppliers
- Fire agencies
- Visitors Bureau
- Tuolumne County Chamber of Commerce

If a demand reduction must take place the District would hold a meeting with the stakeholders listed above to update the agencies on conservation measures the District is taking and provide answers.

The District will issue a press release to all media partners including, radio, newspaper, and post updates on the TUD website, <u>www.TUDwater.com</u>, and social media if a water shortage condition arises. During the 2014-15 drought years, the District partnered with the County of Tuolumne, the local Tuolumne Band of Me-Wuk Tribal Council, and Twain Harte Community Services District on newspaper and radio advertising as a community-wide public outreach effort. Public forums took place throughout the County to answer questions and provide education to the public. After a month of public outreach advertising, TUD saw a reduction in water use from customers by 32% compared to the previous year (2013).

TUD releases a printed public education bi-monthly newsletter, On Tap, inserted with the customers billing statements. A featured topic would include an update on the water shortage and how customers can practice water conservation. The water conservation topic would direct customers to the TUD website and Facebook page for water conservation advice.



Water use efficiency is promoted throughout the year by posting updated information from state agencies and other conservation programs on the TUD website,

www.TUDwater.com/conservation. If a water shortage occurs, the water conservation information is linked to the website's Home page to attract more viewers. Under Regulation No. 12 in the District's Water Rules and Regulations, 12.03.1 Phase I-Ongoing Water Education and Management, this section outlines the various educational and community outreach programs.

5.2 Board of Directions Action

The Tuolumne Utilities District Board of Directors would take the following actions upon the threat of an emergency or water shortage exists:

- 1. A public hearing would be held to implement 12.03.3 Phase III Critical Water Years-Water Restrictions as listed in the District's Water Rules and Regulations.
- 2. All water customers would be requested to reduce their water use by determined reduction goals set forth by the Board of Directors by Resolution.
- 3. Limited watering: Outdoor irrigation is requested with the use of buckets or properly maintained irrigation drip systems. Outdoor watering will be limited to 10 minutes per cycle for spray systems and no longer than 30 minutes per cycle for drip systems. Property addresses ending in an even number shall confine their outside usage to Tuesday, Thursday and Saturday, those with an odd number shall confine their outside usage to Wednesday, Friday and Sunday. All irrigation shall occur between the hours of 7 p.m. and 10 a.m. No watering on Mondays.

If the District warrants that the water shortage is imminent. More restrictive measures would be issued. The District would immediately notify appropriate media outlets, and post local road signage notifying the public of the current water use restrictions. The Board of Directors will hold a public hearing, as soon as feasible, during which customers shall have the opportunity to present their comments to the Board. Following a public hearing the Board of Directors may implement a justifiable Phase of Regulations No.12. Specific water reduction goals will be set by Board Resolution as outlined in the WSCP and Rules and Regulations No. 12. The District shall proclaim through resolution that a state of emergency exists and shall remain in effect until the water supply has been restored.



Section 6: Penalties, Charges, Other Enforcement of Prohibitions

CWC 10632 (a)(6)

For an urban retail water supplier, customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions as determined pursuant to Section 10632.2.

Customer Compliance, Enforcement and Appeal and Exemption Procedures for Triggered Response Actions

In addition to prohibitions, Regulation No. 12 provides penalties and charges for excessive water use. First time violators receive a phone call or written warning. Further violations will result in possible water restrictions and imposing fines. Secondary violation will result in the installation of a flow-restricting device. Violator's water service will be placed on hold until receipt of \$80.00 payment is recorded by administrative staff. After receipt of payment flow-restricting device will be removed. If a third violation or under Phase III-VI water shortage condition, domestic customers will be charged a \$500.00 penalty and their water service may be discontinued for excessive water use. Termination of service will result after three documented warnings for excessive use and failure to comply with the Board's declaration of water shortage. The customer may also be billed a field call out charge as explained in Exhibit B of the Water Rules and Regulations.

Table 6-1: Summary of Penalties and Charges for Excessive Use				
Penalties or Charges	Stage When Penalty Takes Effect			
Phone/Written Notice	II-VI			
Flat Fine	III-VI			
Flow Restriction Device	III-VI			
Termination of Service	IV-VI			

Section 7: Legal Authorities

CWC 10632 (a)(7)

- (A) A description of the legal authorities that empower the urban water supplier to implement and enforce its shortage response actions specified in paragraph (4) that may include, but are not limited to, statutory authorities, ordinances, resolutions, and contract provisions.
- (B) A statement that an urban water supplier shall declare a water shortage emergency in accordance with Chapter 3 (commencing with Section 350) of Division 1. [see below]
- (C) A statement that an urban water supplier shall coordinate with any city or county within which it provides water supply services for the possible proclamation of a local emergency, as defined in Section 8558 of the Government Code.

CWC Division 1, Section 350

Declaration of water shortage emergency condition. The governing body of a distributor of a public water supply, whether publicly or privately owned and including a mutual water company, shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

In accordance with Water Code Section 1 Division 1 Chapter 3, the District's Board of Directors shall declare "a water shortage emergency." To impose a declaration, the Board must schedule a Public Hearing to its customers prior to adopting the measures in Regulation No.12. The Board of Directors must approve TUD's adopted WSCP prior to activating demand reduction measures. TUD is responsible for updating any Board motion regarding water shortage emergencies to WSCP.

TUD must inform regional water suppliers of the declaration of a water shortage emergency. These regional water suppliers maybe directly impacted by the decisions of the Board. Regional water suppliers are dependent on treated and raw water for the TUD conveyance system.

TUD will also coordinate with the agencies shown in Table 7-1 below for the possible proclamation of a local emergency.



Table 7-1: Regional Water Suppliers						
	Treated Water Agencies		Raw Water Agencies			
1. 2. 3. 4. 5.	Sonora Water Company Sonora Meadows Mutual Water Company Muller Mutual Water Company Leisure Pines Mutual Water Company Tamarron Mobile Home Park	1. 2. 3. 4. 5. 6. 7.	THCSD TH Valley Cedar Rock Water Peppermint Creek Mi Wuk Village Oneto Esta Water Sawmill Flat Water			
		<i>7</i> . 8.	Lastchance Water			



Section 8: Financial Consequences of Actions during Shortages

CWC 10632(a)(8)

A description of the financial consequences of, and responses for, drought conditions, including, but not limited to, all of the following:

(A) A description of potential revenue reductions and expense increases associated with activated shortage response actions described in paragraph (4).

(B) A description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions described in paragraph (4).

(C) A description of the cost of compliance with Chapter 3.3 (commencing with Section 365) of Division 1.

Section 10632(g) of the Act requires an analysis of the impacts of each of the actions taken on conservation and water restriction on the revenues and expenditures of the water supplier. During a water shortage as determined by Regulation No. 12, under a Phase III water shortage condition or higher, it is expected that there will be a reduction of revenues due to a significant drop in water sales and that there will be an increase in expenditures due to the need to provide some additional staff to monitor water waste.

The cost of compliance for a Phase III water shortage or regulatory limitations involves shifting the priorities of existing employees to spend time performing additional tasks by postponing existing normal operations to monitor customer water use. The accounting staff will notify those customers with high water use and issue a warning of penalties if water use is not reduced. Existing TUD field staff will postpone other work and mobilize to read suspected and known high water user meters more often to confirm water use reduction and issue penalties if warranted. Existing Field Staff will postpone other work tasks to mobilize and install water user restrictors for customers that do not comply with water use reduction standards after having exhausted all previous remedies. Although there is additional work, it is being performed by the same staff and additional staff is expected to be limited.

There will be financial impacts due to reduced water sales, however, in late 2015, TUD established a new rebalanced rate structure to establish more revenues from the base rate and provide less reliance on consumption. New rates were prepared and adopted by the TUD Board of Directors in late 2015 and became effective in January 2016. The current rate structure is designed to be less sensitive to reductions in water use by drought. There are no provisions for drought triggered surcharges.

For example, the actual treated revenue FY20 is approximately 75% fixed and 25% usage, or \$10.5 million and \$3.5 million, respectively, totaling \$14 million. If Drought required 20% reduction in water usage, then the financial affect would be estimated at \$700,000. Expenses increase as TUD increases public outreach, engages other agencies, monitors ditch operations more closely, and responds to customer complaints of potential water waste.



A Phase IV or emergency level water shortage that involves activation of emergency level water supply supplements including such actions as defined in the emergency Action Plan would involve a much higher level of fiscal impact.

TUD expects that, to overcome the revenue loss and increase in expenditures, the District will have to utilize fiscal reserves, defer existing non-essential operations and projects, obtain loans, and/or develop rate increases.



Section 9: Monitoring and Reporting

CWC 10632(a)(9)

For an urban retail water supplier, monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

Certain aspects of water conservation can be readily monitored and evaluated, such as metered water use and production quantities. Other aspects such as public education are more difficult to measure in terms of effectiveness. Additionally, weather patterns make it more difficult to compare one year's water demand and conservation results with another year's usage.

When severe shortages occur and some degree of mandatory reduction is required, a program's effectiveness can be judged directly by water billings. In these cases, targeted results must be met, including reluctant customers, for the District to meet its goals. Specific methods to evaluate effectiveness of water conservation programs to be employed by TUD are:

- <u>Monitoring of Metered Water Usage</u> This will determine how much has been used. Compiling statistics to track usage of customer groups to determine trends is currently being done through the water billing computer system. Meter readings/billings can be compared and analyzed to determine the effectiveness of conservation for all customer classes.
- Monitoring Production Quantities In normal water supply conditions, production figures are recorded daily by the District's automated system. The Water Production Supervisor and the Production Lead monitor the accuracy of the monthly production totals. The totals are incorporated into the monthly water supply report to the State by the Water Treatment Supervisor.

To verify that conservation reduction goals are being met, production and metered usage reports will be provided to the District Engineer during each stage of the conservation period. Water production figures will be compared to previous year production figures for the same period to ascertain if conservation goals are being reached. Results will be posted on the TUD website.



Section 10: Refinement Procedures

CWC 10632 (a)(10)

Reevaluation and improvement procedures for systematically monitoring and evaluating the functionality of the water shortage contingency plan in order to ensure shortage risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented as needed.

TUD will convene the following departmental staff as needed to refine the Water Shortage Event Contingency Plan:

- Engineering Staff
- Administrative Staff
- Operational Staff

The Water Shortage Contingency Plan will be updated and refined as appropriate and needed following significant changes to TUD's supply portfolio or significant changes to the water allocation plans of its supply agencies, but no less than every 5 years.



Section 11: Plan Adoption Resolution or Ordinance

CWC 10632 (*a*)(*c*)

The urban water supplier shall make available the water shortage contingency plan prepared pursuant to this article to its customers and any city or county within which it provides water supplies no later than 30 days after adoption of the water shortage contingency plan.

The Draft Resolution for adoption of the Urban Water Management Plan and Water Shortage Contingency Plan is provided in Appendix E of the UWMP.

TUD conducted a public hearing prior to the Board of Directors adoption of the UWMP and the WSCP. The District took all necessary steps to notify the public of the hearing and making the WSCP document available for review. The District must make the final adopted plan available to the public, cities, and counties no later than 30 days from the date of adoption. It is the District's responsibility to submit UWMP and WSCP to DWR within 30 calendar days from the date of adoption. The District is also responsible for providing the City of Sonora, Tuolumne County, and state library with a copy of the adopted UWMP within 30 days of adoption. Appendix C 2020 UWMP contains the following:

- Copy of the public hearing notice from the local newspaper
- Notifications and follow-up correspondence provided to the City of Sonora and Tuolumne County

11.1 Public Hearing

TUD conducted a public meeting on June 8, 2021, to receive public comments on the 2020 UWMP and WSCP prior to adopting. The purpose of this hearing was to present an overview of the 2020 UWMP and WSCP and to allow the community to voice their concerns prior to the District implementing the plan. The community was given the opportunity to review and consider the environmental and economic impact the UWMP may have on the community. Copies of the UWMP and WSCP were made available to the public at <u>www.TUDwater.com</u>. The District took into consideration of the public comments prior to publishing the final 2020 WSCP and submitting it to the Board for a motion to adopt at the June 22, 2021, Board meeting. A copy of the Board resolution adopting the 2020 WSCP can be referenced in Appendix E of the 2020 UWMP.

11.2 Plan Submittal and Public Availability

The adopted final copy of TUD's 2020 WSCP was submitted to DWR on July 1, 2021. A copy of the adopted plan was sent to the California State Library located at 914 Capitol Mall, Sacramento, CA 95814 on July 1, 2021. A hard copy of the plan is made available to the public at the TUD Administration Building located at provided the public a digital copy of the plan that can be found at <u>www.TUDwater.com/about-us/</u>. This plan includes all information necessary to



meet the applicable requirements of the CWC. Appendix C of the 2020 UWMP includes copies of the transmittals included with the adopted plan as supporting documentation.



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