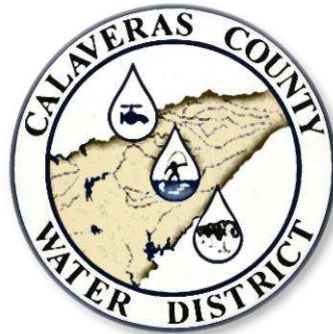


Presentation on CCWD's 5-Year CIP Program

(July 1, 2017 to June 30, 2022)

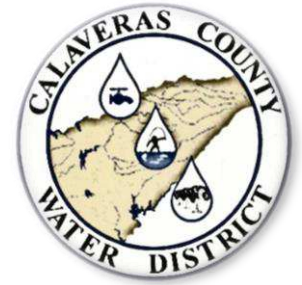


*Calaveras County Water District
Regular Board Meeting
Wednesday, March 22, 2017*



Program Priorities:

- Address O&M Issues / Assist Staff
- Assure Worker Safety / OSHA Compliance
- Maintain Electrical, Standby Power & SCADA Systems
- Renovate & Replace Aging Facilities
- Master Planning for Growth / Future Expansion
- Grant Funding Consistent with District Goals
- Hazard Mitigation Projects (Drought, Fire, Flood)
- Water Resources, Supply Shortfalls and Conservation Goals
- Reliability and Redundancy
- Regulatory Compliance / Permit Updates
- Prevent Sewer Spills, Overflows & Infiltration/Inflow
- Manage Biosolids, Sludge Handling & Disposal



Program Challenges:

- Implementation / Execution
- Staff Resources / Consultants
- Purchasing Policy / Public Contracting Requirements
- Environmental (CEQA, NEPA, Permits)
- Regional Board / WDR / Title 22 Reports
- Funding Limitations
- Completing Priorities



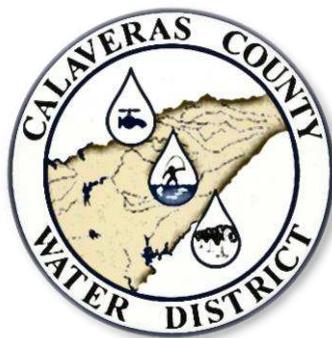
Costs 5-Year CIP Program

July 1, 2017 to June 30, 2022

FUNDING SOURCE	WATER	WASTEWATER
R&R	\$ 28,465,000	\$ 8,600,000
Expansion	\$ 3,955,000	\$ 3,740,000
Grants	\$ 5,070,000	\$ 4,930,000
Other	\$ 540,000	\$ 350,000
TOTAL COSTS	\$ 38,030,000	\$ 17,620,000
R&R Revenues	\$ 21,800,000	\$ 6,800,000
	(6,665,000)	(1,800,000)

Water Segment 5-Year CIP Program

(July 1, 2017 to June 20, 2022)



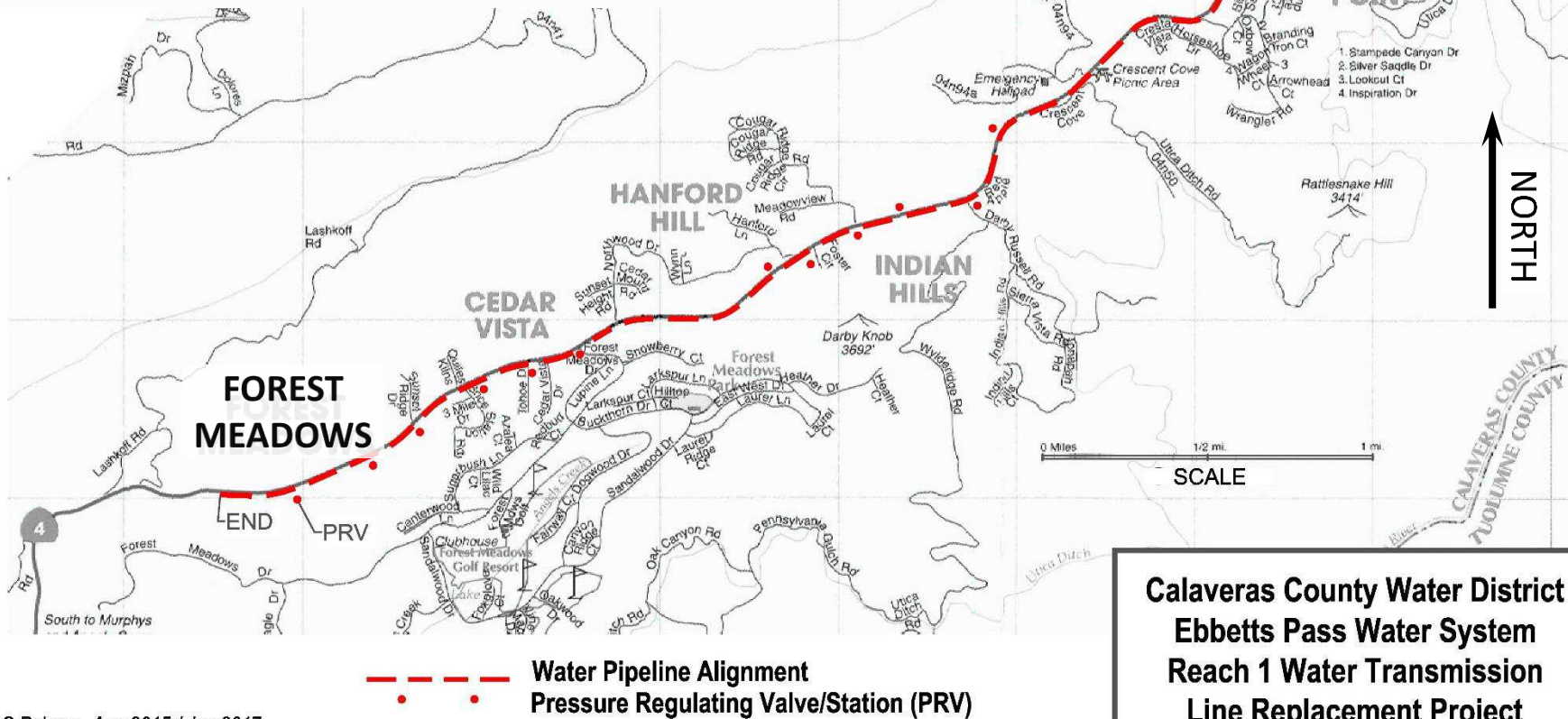
*Calaveras County Water District
Regular Board Meeting
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PROJECT PHASES		YEAR																			
		FY 17/18		FY 18/19		FY 19/20		FY 20/21		FY 21/22											
Planning, Study, Assessment, Proposals		2017		2018		2019		2020		2021		2022									
Design, Engineering, Environmental, Permits		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Construction/Implementation		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
WATER PROJECTS LIST																					
Big Trees	Redwood Tanks (Cal-OES/FEMA)																				
Ebbetts Pass	Reach 3A Pipeline (USDA)																				
Jenny Lind	Master Plan																				
Copper Cove	Master Plan																				
West Point	Master Plan																				
Forest Meadows	Larkspur Tank / Repair & Paint																				
Jenny Lind	Clearwell #2 / Repair & Paint																				
Wallace	Gound & Elevated Tanks / Repair & Paint																				
Jenny Lind	Pretreatment (Cal-OES/FEMA)																				
West Point	AMR / AMI Meter Program (Phase 1)																				
West Point	Wilson Dam																				
Ebbetts Pass	Techite Pipeline																				
Ebbetts Pass	Reach 1 Pipeline																				
Ebbetts Pass	Sawmill Tank / Repair & Paint																				
Copper Cove	Clearwell & Tank B / Repair & Paint																				
Ebbetts Pass	Hunters Clearwell / Repair & Paint																				
Sheep Ranch	New Water Plant & Clearwell																				
West Point	Backup Water Filter																				
Sheep Ranch	White Pines/Blagen Mill Pond																				
Jenny Lind	A-B Transmission Main																				
Copper Cove	Zone 'C' Pump Station & Transmission																				
Various	Arc Flash Assessment																				
Various	Tanks / Repairs & Painting																				
Various	Pump Stations / Renovations																				
Various	Road Repairs																				
Various	Pipeline Replace Program, Meters/Map																				

Figure 1 – Water Projects / Schedule / 5-Year CIP Program

Ebbetts Pass Reach 1 Water Transmission Main

- 24,000 feet / 10-inch
- Twelve (12) PRV Stations
- Caltrans Encroachment Permit
- Design 2017 / Construction 2018
- Budget: \$5,000,000

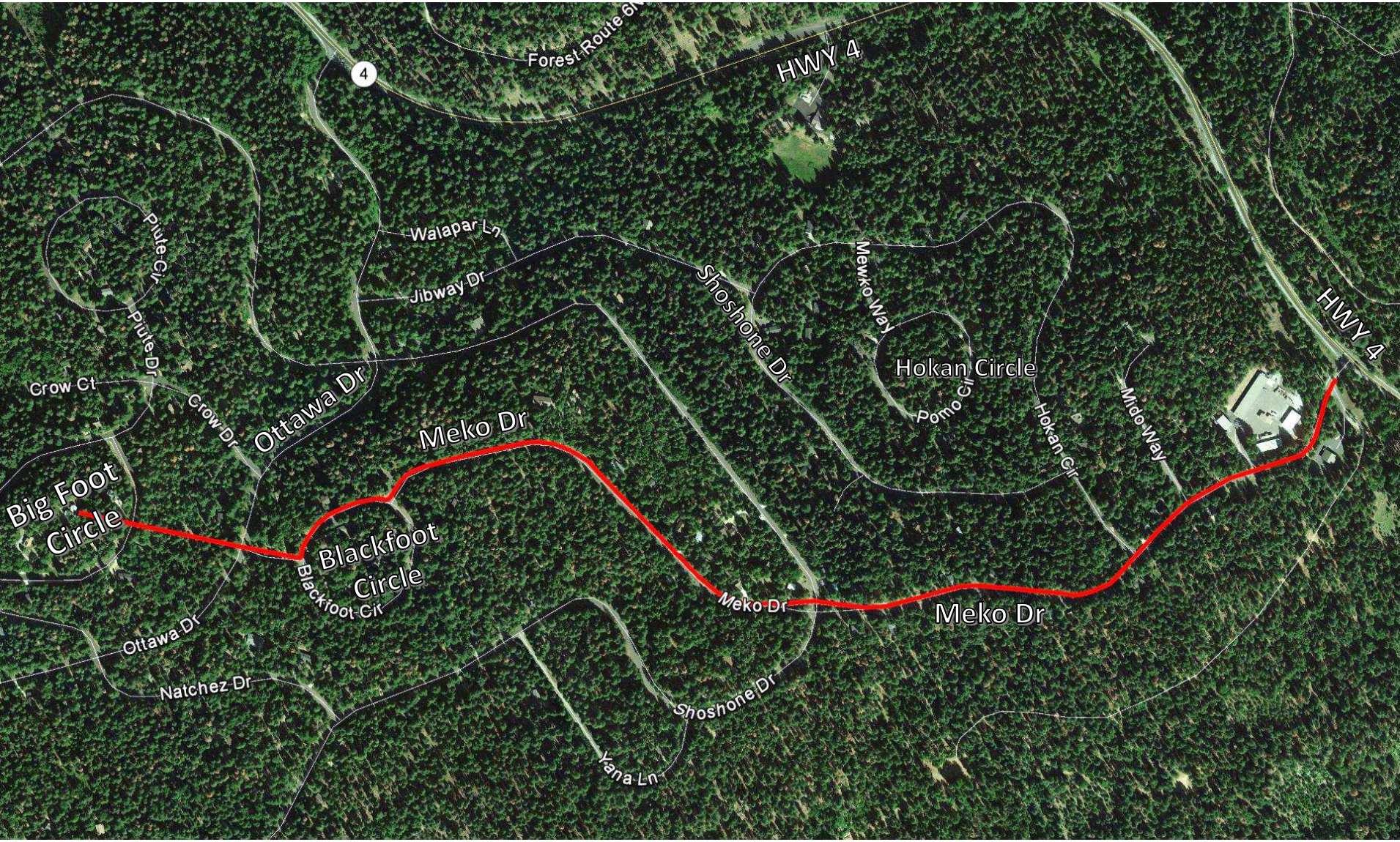


**Calaveras County Water District
Ebbetts Pass Water System
Reach 1 Water Transmission
Line Replacement Project**

Techite Pipeline

Big Trees Subdivision / 600+ Customers / 7,500 feet

Existing 14" Diameter / New 10" Diameter Water Main



Jenny Lind WTP Pretreatment Project

- FEMA/Cal-OES Hazard Mitigation Grant / Butte Fire
- New Pretreatment System for Turbidity, Organics and Disinfection Byproducts
- Budget: \$3,758,000 (75/25 Cost Share)

DATES	MILESTONE
Mar. – Dec. 2016	95% Design
Jan. – Mar. 2017	Final Design
Jan. – Oct. 2017	NEPA Review/Approval
Oct. – Dec. 2017	Equipment Purchase
Jan. – Dec. 2018	Site Construction

Silver Rapids Rd

Clearwell
#2

Clearwell
#1

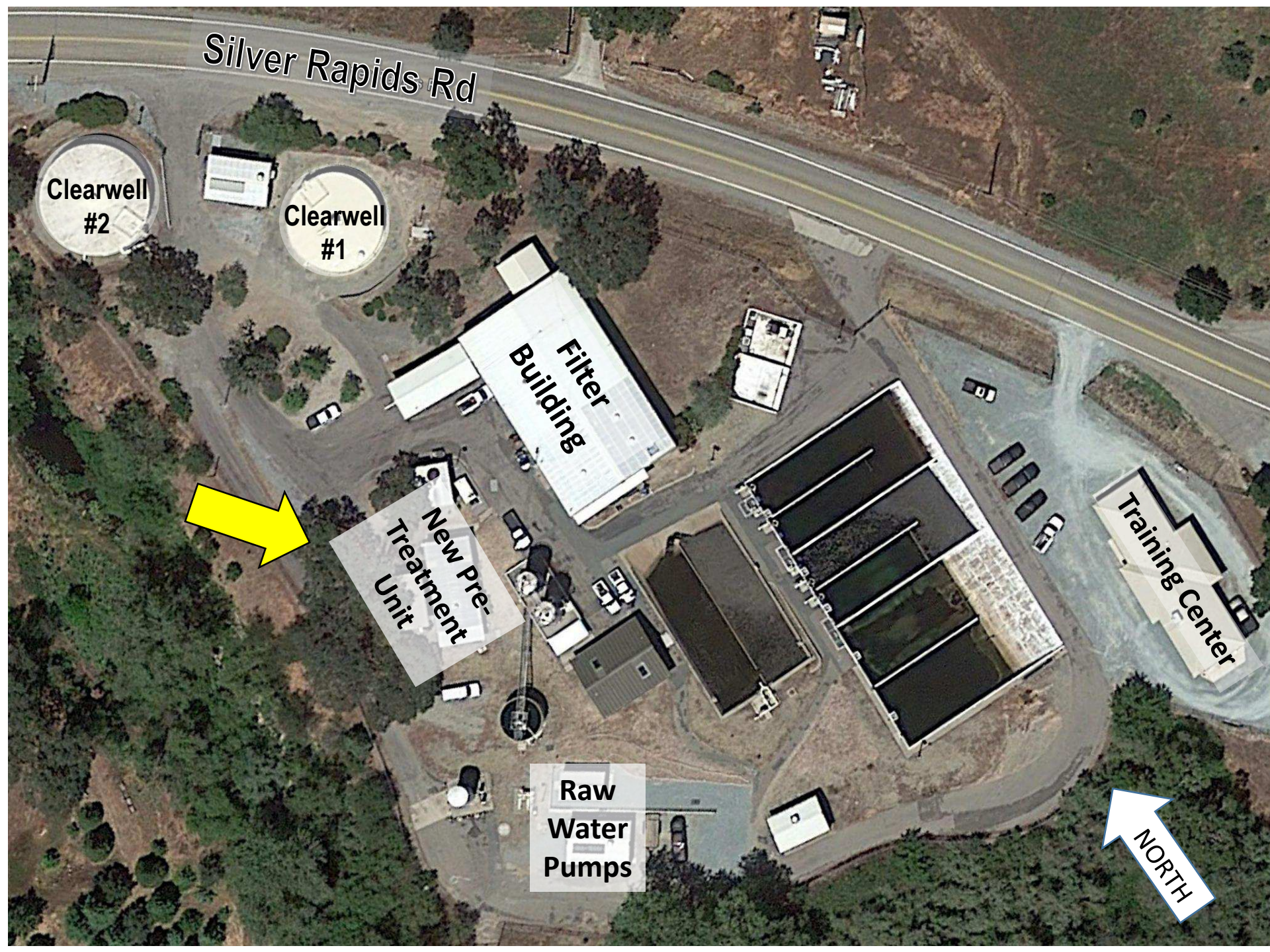
Filter
Building

New pre-
Treatment
Unit

Raw
Water
Pumps

Training Center

NORTH





Steel Tank Repair & Painting

Steel Tank Management Program

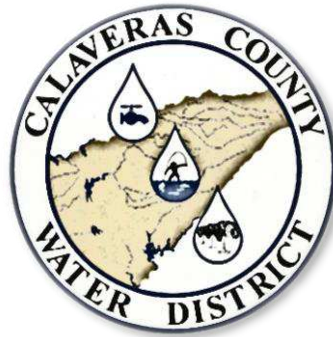
TANK	VOLUME (gal)	DIAMETER (ft)	HEIGHT (ft)	YEAR (Age)
CC Clearwell	320,000	70	12	1997 (18)
CC Tank B	750,000	65	31.5	1981 (34)
CC Tank C1	580,000	62	26	2006 (9)
CC Tank C2	580,000	62	26	2006 (9)
Copperopolis	500,000	56	29	2008 (7)
JL Tank A	2,000,000	108	30	1991 (24)
JL Tank B	1,000,000	78	28	1990 (25)
JL Tank E	500,000	60	24	1990 (25)
JL Tank F	980,000	84	24	1991 (24)
JL Clearwell #1	100,000	46	8	1991 (24)*
JL Clearwell #2	180,000	52	12	1995 (20)
JL 602 Elevated	190,000	40	90	2008 (7)
EP Hunters	980,000	90	21	1990 (25)
EP Sawmill	3,000,000	120	36	1977 (38)
EP Pinebrook	1,000,000	75	32	1988 (27)
Forest Meadows	150,000	30	30	1980 (35)
Sheep Ranch	75,000	30	15	1980 (35)
Wallace Ground	225,000	40	24	1988 (27)
Wallace Elevated	60,000	25	100	1988 (27)

Table 'A' – Water / Budgetary Costs / 5-Year CIP Program

WATER PROJECTS		FUNDING SOURCES				
		R&R	EXPANSION	GRANT	OTHER	TOTAL
Big Trees	Redwood Tanks (Cal-OES/FEMA)	\$ 315,000	\$ -	\$ 870,000	\$ 290,000	\$ 1,475,000
Ebbetts Pass	Reach 3A Pipeline (USDA)	\$ 3,920,000	\$ -	\$ 1,380,000	\$ -	\$ 5,300,000
Jenny Lind	Master Plan	\$ -	\$ 60,000	\$ -	\$ -	\$ 60,000
Copper Cove	Master Plan	\$ -	\$ 60,000	\$ -	\$ -	\$ 60,000
West Point	Master Plan	\$ -	\$ 85,000	\$ -	\$ -	\$ 85,000
Jenny Lind	Clearwell #2 / Repair & Paint	\$ 200,000	\$ -	\$ -	\$ -	\$ 200,000
Forest Mead.	Larkspur Tank / Repair & Paint	\$ 200,000	\$ -	\$ -	\$ -	\$ 200,000
Wallace	Gound & Elevated Tanks/Repair & Paint	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
Jenny Lind	Pretreatment (Cal-OES/FEMA)	\$ 980,000	\$ -	\$ 2,820,000	\$ -	\$ 3,800,000
West Point	AMR/AMI Meter Program (Phase 1)	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
West Point	Wilson Dam	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
Ebbetts Pass	Techite Pipeline	\$ 1,250,000	\$ -	\$ -	\$ -	\$ 1,250,000
Ebbetts Pass	Reach 1 Pipeline	\$ 4,000,000	\$ 1,000,000	\$ -	\$ -	\$ 5,000,000
Ebbetts Pass	Sawmill Tank / Repair & Paint	\$ 750,000	\$ -	\$ -	\$ -	\$ 750,000
Copper Cove	Clearwell & Tank B /Repair & Paint	\$ 750,000	\$ -	\$ -	\$ -	\$ 750,000
Ebbetts Pass	Hunters Clearwell / Repair & Paint	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
Sheep Ranch	New Water Plant & Clearwell	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
West Point	Backup Water Filter	\$ 1,250,000	\$ -	\$ -	\$ -	\$ 1,250,000
Sheep Ranch	White Pines/Blagen Mill Pond	\$ 4,000,000	\$ -	\$ -	\$ -	\$ 4,000,000
Jenny Lind	A-B Transmission Main	\$ 3,500,000	\$ -	\$ -	\$ -	\$ 3,500,000
Copper Cove	Zone 'C' Pump Station & Transmission	\$ 2,750,000	\$ 2,750,000	\$ -	\$ -	\$ 5,500,000
Various	Arc Flash Assessment	\$ -	\$ -	\$ -	\$ 250,000	\$ 250,000
Various	Tanks / Replacement, Repairs, Painting	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
Various	Pump Stations / Renovation	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
Various	Road Repairs	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
Various	Pipelines, Meters, Mapping	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
TOTALS		\$ 28,465,000	\$ 3,955,000	\$ 5,070,000	\$ 540,000	\$ 38,030,000

Wastewater Segment 5-Year CIP Program

(July 1, 2017 to June 20, 2022)



*Calaveras County Water District
Regular Board Meeting
Wednesday, March 22, 2017*

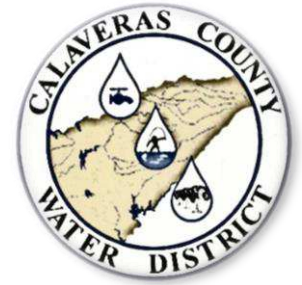
PROJECT PHASES		YEAR																							
		FY 17/18				FY 18/19				FY 19/20				FY 20/21				FY 21/22							
Planning, Study, Assessment, Proposals		2017				2018				2019				2020				2021				2022			
Design, Engineering, Environ., Permits		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Construction		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
WASTEWATER PROJECTS LIST																									
La Contenta	Master Plan																								
Copper Cove	Master Plan																								
Copper Cove	Report Waste Discharge / Permit																								
Wallace	Report Waste Discharge / Permit																								
Wallace	Plant Renovations/SCADA/Electrical																								
Vallecito	Title 22 / TSTAN Project																								
Vallecito	I&I / Equalization Improvements																								
Forest Mead.	UV System Replacement																								
Copper Cove	Pond 6 Enlargement / Expansion																								
Poker Flat	Lift Station 8, 12 & 13 Bypass																								
Copper	Lift Stations LS15 & LS18																								
West Point	Wilseyville Consolidation																								
La Contenta	Secondary Clarifier, Upgrades																								
Arnold	Secondary Clarifier, Replacement																								
Various	Arc Flash Assessments																								
Various	Lift Stations (LS2,WP,etc.)																								
Various	Infiltration/Inflow (I&I) Mitigation																								
Various	Pipeline/Forcemain Replacements																								
Various	Road Repairs																								
Various	Biosolids Handling/Drying/Disposal																								

Figure 2 – Wastewater Projects / Schedule / 5-Year CIP Program

Copper Cove Pond 6

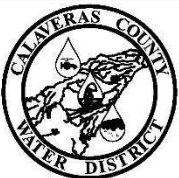
- Raise Dam Height 10-ft
- Increase Capacity 200 to 400 AF
- Project Cost \$5.5 Million
- 50% Expansion / 50% R&R
- DSOD Application Filed on March 29, 2007
- DSOD Approved for Construction April 11, 2011
- DSOD Deadline Extended to July 1, 2018
- If Voided, New Application, Plans/Spec's & Fees





Poker Flats Lift Station 8, 12 & 13 Force Main Bypass

- Rebuild/Replace Lift Stations 6 & 8
- Abandon Existing 6-inch Force Main in Lake Tulloch
- New Force Main 4,500 feet
- New Lift Station with Larger Pumps / Upgrade PG&E
- Budget: \$1.5 million



**CALAVERAS COUNTY
WATER DISTRICT**

120 TOMA COURT/P.O. BOX 846
SAN ANDREAS, CA 95249
PHONE: (209) 754-3543 FAX: (209) 754-1089

LIFT STATION 8, 12 & 13 BYPASS
PROPOSED LIFT STATION AND ALIGNMENT
(FIGURE-1)

Lift Stations 15 & 18 Renovations



Table 'B' – Wastewater / Budgetary Costs / 5-Year CIP Program

WASTEWATER & SEWER PROJECTS		<u>FUNDING SOURCES</u>				
		R&R	EXPANSION	GRANT	OTHER	TOTAL
La Contenta	Master Plan	\$ -	\$ 95,000	\$ -	\$ -	\$ 95,000
Copper	Master Plan	\$ -	\$ 95,000	\$ -	\$ -	\$ 95,000
Copper	Report Waste Discharge/Permit	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000
Wallace	Report Waste Discharge/Permit	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000
Wallace	Plant Renovations/SCADA/Electrical	\$ 150,000	\$ -	\$ -	\$ 100,000	\$ 250,000
Vallecito	Title 22 / TSTAN Project	\$ 100,000	\$ -	\$ 180,000	\$ -	\$ 280,000
Vallecito	I&I Equalization Improvements	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000
Copper	Pond 6 Enlargement/Expansion	\$ 2,750,000	\$ 2,750,000	\$ -	\$ -	\$ 5,500,000
West Point	Wilseyville Consolidation Grant	\$ -	\$ -	\$ 4,750,000	\$ -	\$ 4,750,000
Copper	Lift Station 8, 12 & 13 Bypass	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 1,500,000
Copper	Lift Station 15 & 18 Renovations	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
La Contenta	Secondary Clarifier	\$ 750,000	\$ -	\$ -	\$ -	\$ 750,000
Arnold	Secondary Clarifier	\$ 800,000	\$ 300,000	\$ -	\$ -	\$ 1,100,000
Various	Arc Flash Assessments	\$ -	\$ -	\$ -	\$ 250,000	\$ 250,000
Various	Lift Stations (LS2,WP,etc)	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
Various	Pipeline/Forcemain Replacement	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
Various	Road Repairs	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
Various	Biosolids Handling/Drying/Disposal	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ 1,000,000
TOTALS		\$ 8,600,000	\$ 3,740,000	\$ 4,930,000	\$ 350,000	\$ 17,620,000

Summary

- 5-Year CIP Reviewed/Approved by Board Annually
- Establishes CIP Projects and Priorities for Both Water and Wastewater Segments
- Provides Budgetary Project Costs
- Can be Amended by Board During Year to Adjust Costs, Add Projects & Respond to Emergencies
- Defines 5-Year CIP Leading into the FY17/18 Budget