



April 1, 2021

# Santa Clarita Valley Water Agency

Engineering & Operations  
Capital Improvement Plan  
FY 22 & 23

# Fiscal Year 2022

Pay-Go Projects	Proposed Budget FY 2022	Water Rates	Reserves*	Expansion/ Reimbursement
Admin & Tech	\$ 5,099,729			
Appurtenance Improvements	\$ 410,000			
Booster Station/Turn Out Improvements	\$ 3,375,200			\$ 1,016,100
Capital Planning & Studies	\$ 5,977,506			
Disinfection Projects	\$ 1,010,000			
General Facility Replacements	\$ 1,390,000			
Meter Replacements	\$ 2,075,000			
Pipelines & Pipeline Replacements	\$ 6,175,000			\$ 455,000
R&R Budget	\$ 2,293,450			\$ 300,000
Recycled Water Improvements	\$ 1,382,700			
Tank & Tank Facility Improvements	\$ 7,230,000			\$ 1,300,000
Technology	\$ 375,000			
Treatment Plant Improvements	\$ 996,000			
Water Resources & Supply	\$ 1,560,000			
Wellhead Treatment Improvements	\$ 810,000			
Wells & Well Facility Improvements	\$ 7,515,000			6,345,000
<b>Total Pay-Go CIP</b>	<b>47,674,585</b>	<b>22,520,377</b>	<b>15,738,108</b>	<b>9,416,100</b>

\*FY 2021 Carryover \$26,232,295



# Fiscal Year 2023

Pay-Go Projects	Proposed Budget FY 2023	Water Rates	Reserves	Expansion/ Reimbursement
Admin & Tech	\$ 1,855,000			
Appurtenance Improvements	\$ 410,000			
Booster Station/Turn Out Improvements	\$ 3,647,000			\$ 453,500
Capital Planning & Studies	\$ 6,287,832			
Disinfection Projects	\$ 1,010,000			
General Facility Replacements	\$ 1,575,000			
Meter Replacements	\$ 2,075,000			
Pipelines & Pipeline Replacements	\$ 7,865,000			\$ 150,000
R&R Budget	\$ 1,968,450			
Recycled Water Improvements	\$ 3,944,850			
Tank & Tank Facility Improvements	\$ 10,255,000			\$ 1,672,500
Technology	\$ 375,000			
Treatment Plant Improvements	\$ 1,899,000			
Water Resources & Supply	\$ 300,000			
Wellhead Treatment Improvements	\$ 9,490,000			
Wells & Well Facility Improvements	\$ 4,981,000			\$ 1,755,000
<b>Total CIP Sources of Funding</b>	<b>\$ 57,938,132</b>	<b>\$ 20,505,140</b>	<b>\$ 33,401,992</b>	<b>\$ 4,031,000</b>

\*FY 2021 Remaining Carryover \$10,494,187

\*FY 2022 Capital Reserve Utilization \$22,907,805

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# Engineering CIP Overview

<b>Capital Projects</b>	<b>Priority FY 21/22</b>	<b>FY 2021/22 Projected</b>	<b>Priority FY 22/23</b>	<b>FY 2022/23 Projected</b>
Deane Pump Station @ Sand Canyon Plaza*	1	\$ 1,232,200	1	\$ 407,000
Deane Pump Station @ Skyline Ranch*	1	\$ 800,000	1	\$ 500,000
Deane SC-6 Pump Station	1	\$ 150,000	2	\$ 750,000
Deane SC-6 Soledad Pipeline	1	\$ 200,000	2	\$ 250,000
Deane Tank Site (Existing) Improvements	1	\$ 50,000	1	\$ 550,000
Deane Tanks - One 1.5 MG Tank @ Sand Canyon Plaza*	1	\$ 1,175,000	1	\$ 1,845,000
Deane Tanks (Two 2.5 MG Tanks) @ Skyline Ranch*	1	\$ 1,200,000	1	\$ 1,200,000
Deane Zone Disinfection @ Skyline Ranch*	1	\$ 225,000	1	\$ 300,000
Dockweiler-Sierra Hwy Pipeline*	2	\$ 125,000	2	\$ 300,000
ESFP Two 5 MG Tanks Improvements	1	\$ 2,520,000	2	\$ 2,200,000
Friendly Valley Booster Station (Crossroads)	2	\$ 75,000	2	\$ 125,000



# Engineering CIP Overview

<b>Capital Projects</b>	<b>Priority FY 21/22</b>	<b>FY 2021/22 Projected</b>	<b>Priority FY 22/23</b>	<b>FY 2022/23 Projected</b>
Friendly Valley Pipeline @ Via Princessa (Crossroads)	1	\$ 75,000	1	\$ 125,000
Friendly Valley Tank (3.25 MG) @ Crossroads	2	\$ 100,000	2	\$ 150,000
Golden Valley Pipeline @ Via Princessa (Crossroads)	1	\$ 75,000	1	\$ 125,000
Golden Valley Tank (1.6 MG) @ Crossroads	2	\$ 100,000	2	\$ 100,000
Market Street Pump Station (Wiley Canyon)	2	\$ 50,000	2	\$ 300,000
Market Street/Shadeland/Maple Street Pipeline (Wiley Cyn)	2	\$ 50,000	2	\$ 150,000
Office Reconfiguration - Summit Circle	1	\$ 15,000		\$ -
Pipeline Relocations/Modifications	3	\$ 300,000	3	\$ 500,000
Placerita Tanks (Two 1.6 MG Tanks)		\$ -	3	\$ 100,000
Recycled Water Program Phase II, 2B - Vista Cyn Distribution	1	\$ 392,750		\$ -
Recycled Water Program Phase II, 2C - South End Distribution	1	\$ 142,450	1	\$ 3,572,350



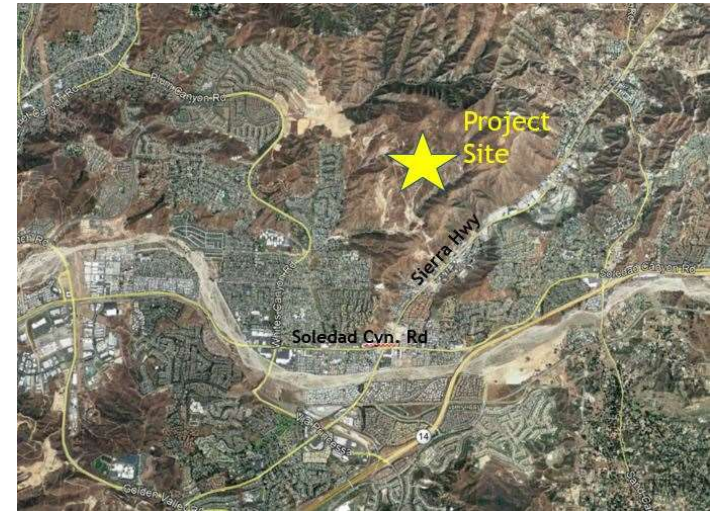
# Engineering CIP Overview

<b>Capital Projects</b>	<b>Priority FY 21/22</b>	<b>FY 2021/22 Projected</b>	<b>Priority FY 22/23</b>	<b>FY 2022/23 Projected</b>
RVWTP Underground Storage Tank Replmt	3	\$ 226,000	1	\$ 1,449,000
Saugus 3 & 4 Replacement Wells	1	\$ 6,345,000	1	\$ 3,976,000
SC-12 Warmuth Pipeline	2	\$ 50,000	2	\$ 50,000
Stair/Ladder Safety Improvements	1	\$ 840,000	2	\$ 2,300,000
Tank 4 (1.5 MG Tank @Wiley Canyon )	1	\$ 50,000	1	\$ 150,000
V-9 Improvements	2	\$ 158,000	1	\$ 630,000
Valencia Marketplace Pipeline Replacement	2	\$ 200,000	1	\$ 1,965,000
Vista Cyn Bridge Piping at Soledad/Lost Canyon	1	\$ 300,000		\$ -
Well 205 (Perchlorate)	1	\$ 510,000	1	\$ 9,490,000
Well Q2 (Perchlorate)	1	\$ 300,000		\$ -
<b>Total</b>		<b>\$18,051,400</b>		<b>\$ 33,559,950</b>



# Deane Zone Improvements

- Budgets
  - Sand Canyon Pump Station
    - FY22 - \$1,232,200
    - FY23 - \$407,000
  - 1.5 MG Tank at Existing Tank Site
    - FY22 - \$1,175,000
    - FY23 - \$1,845,000
  - 2 - 2.5 MG Tanks at Skyline Ranch
    - FY22 - \$1,200,000
    - FY23 - \$1,200,000
- Funding
  - Partially funded by the Developer
  - Portion of funds from Expansion Fees
- Benefits of Participation
  - Developer contributed land
  - Developer conducted environmental review (CEQA)
  - Economy of scale in bids prices for design and construction.
  - Addresses a deficiency in the Agency system



# Earl Schmidt Filtration Plant

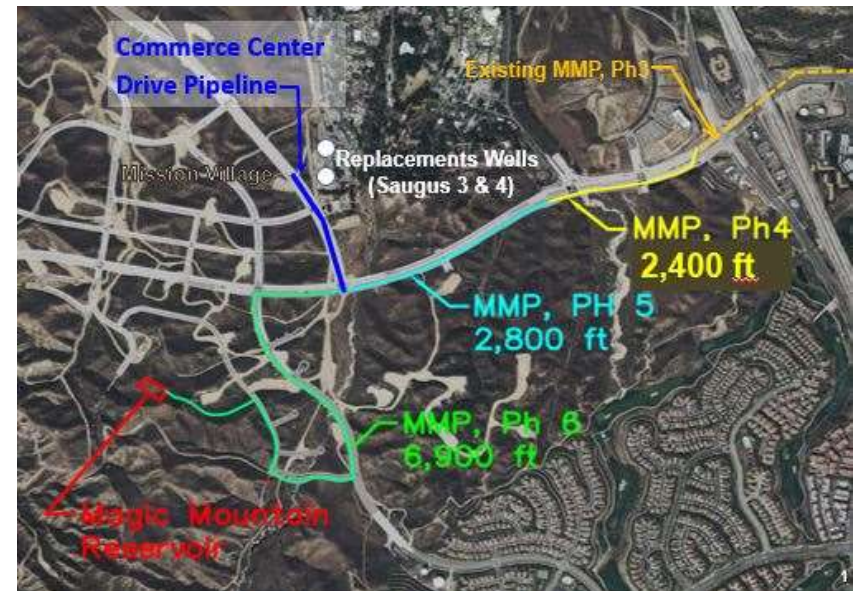
- Budget
  - FY22 - \$2,520,000
  - FY23 - \$2,200,000
- Construction
  - Improvements to Two 5 MG Tanks
- Project Details
  - Replacing rafters and ladders
  - Adding a flex coupling to the inlet.





# Saugus Wells 3 & 4

- Budget
  - FY22 - \$6,345,000
  - FY23 - \$3,976,000
- Construction
  - New Wells drilled in the Saugus Formation
- Project Details
  - New wells estimated at 2,000 gpm each
  - Associated pipelines



# Operations CIP

- Require limited engineering support
- Consist of several general categories, each with specific individual projects
- A portion of each budget is held for unforeseen failures
- Projects are prioritized based on several factors
  - Age
  - Failure rate
  - Criticality
  - Location
  - Other considerations



# Operations CIP Overview

<b>Capital Projects</b>	<b>Priority FY 21/22</b>	<b>FY 2021/22 Projected</b>	<b>Priority FY 22/23</b>	<b>FY 2022/23 Projected</b>
Appurtenance Improvements	1	\$ 410,000	1	\$ 410,000
Booster Station Improvements	1	\$ 710,000	1	\$ 685,000
Disinfection System Improvements	1	\$ 1,010,000	1	\$ 1,010,000
Equipment Replacements	1	\$ 1,375,000	1	\$ 1,575,000
Meter Replacements	1	\$ 2,075,000	1	\$ 2,075,000
Pipeline Replacements	1	\$ 4,800,000	1	\$ 4,000,000
Storage Tank Improvements	1	\$ 970,000	1	\$ 1,060,000
Technology Improvements	1	\$ 375,000	1	\$ 375,000
Treatment Plant Improvements	1	\$ 770,000	1	\$ 450,000
Well Improvements	1	\$ 1,170,000	1	\$ 1,005,000
<b>TOTALS</b>		<b>\$ 14,015,000</b>		<b>\$ 12,045,000</b>

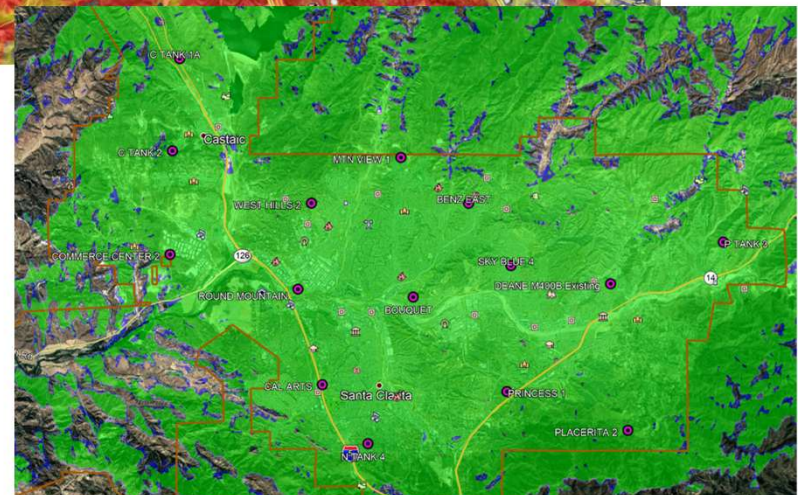
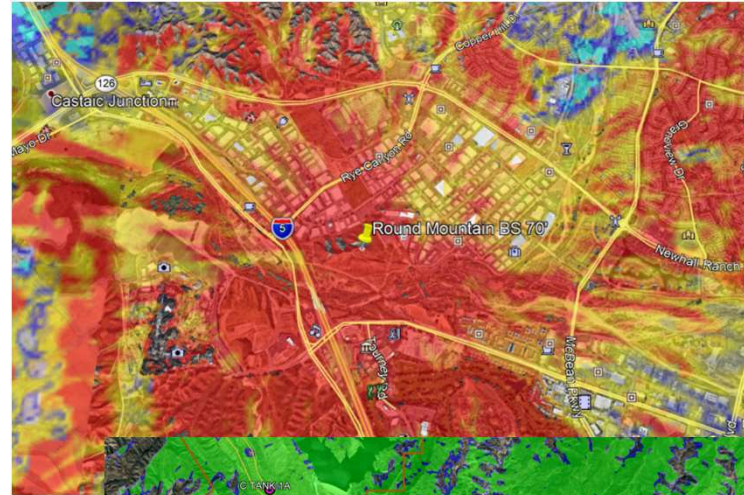
# Pipeline Replacements

- Budget
  - FY22 - \$4,500,000
  - FY23 - \$4,000,000
- Construction
  - Combination of internal and external crews
- Key Projects
  - Dickason Drive 14” PVC Replacement
  - Abdale Road Pipeline Replacement
  - Vasquez Canyon Pipeline Improvements



# Meter Replacements

- Budget
  - FY22 - \$2,075,000
  - FY23 - \$2,075,000
- Meter Replacement Criteria
  - Age
  - Volume
  - Read Style
- AMI Target Areas
  - NWD Service Areas ~1,000 meters
  - VWD Service Area ~2,000 meters
  - SCWD Service Area ~1,500 meters



# Equipment Replacements

- Budget
  - FY22 - \$1,375,000
  - FY23 - \$1,575,000
- Equipment Replacement Criteria
  - Age, mileage, maintenance costs
- Equipment Totals
  - 115 Vehicles
    - 31  $\geq$  10 years old
    - 10  $\geq$  110,000 miles
  - 10 Mobile Generators
    - Age range 2000 - 2012
  - Heavy Equipment
    - 6 Backhoes - 1996 - 2019
    - 6 Dump Trucks - 2000 - 2018



# Well Improvements

- Budget
  - FY21 - \$1,170,000
  - FY22 - \$1,005,000
- Well Rehabilitation Criteria
  - Specific capacity
  - Production
  - Age
  - PFAS Treatment
- Key Projects
  - Saugus 1 & 2
  - Well 160



## Debt Fund Summary

	Adopted Budget FY 2021	Projected FY 2021	Proposed Budget FY 2022	Proposed Budget FY 2023
<b>Fund Balance, Beginning</b>	\$ 7,542,975	\$ 7,542,975	\$ 32,151,338	\$ (926,152)
<b>REVENUES</b>				
Bond Proceeds	\$ 55,000,000	\$ 55,000,000		\$ 95,000,000
Investment Revenues	\$ 180,000	\$ 60,000	\$ 32,000	\$ 80,000
<b>Total Revenues</b>	<b>\$ 55,180,000</b>	<b>\$ 55,060,000</b>	<b>\$ 32,000</b>	<b>\$ 95,080,000</b>
<b>EXPENDITURES</b>				
Capitol Projects - Debt Funded	\$ (55,099,550)	\$ (30,451,637)	\$ (33,109,490)	\$ (39,580,650)
<b>Total Expenditures</b>	<b>\$ (55,099,550)</b>	<b>\$ (30,451,637)</b>	<b>\$ (33,109,490)</b>	<b>\$ (39,580,650)</b>
<b>Available Fund Balance</b>	<b>\$ 7,623,425</b>	<b>\$ 32,151,338</b>	<b>\$ (926,152)</b>	<b>\$ 54,573,198</b>



## Debt Funded CIP Overview

Capital Projects Bond Financed	Priority FY 21/22	FY 2021/22 Projected	Priority FY 22/23	FY 2022/23 Projected
Castaic Conduit	3	\$ 180,000	2	\$ 520,000
E Wells (E-14, E-15, E-16, E-17)	3	\$ 265,000	2	\$ 977,000
ESFP Sludge Collection System	1	\$ 6,031,000	1	\$ 8,675,000
Honby Parallel	4	\$ 135,000	3	\$ 110,000
LARC Pipeline*	1	\$ 785,000		\$ -
Magic Mountain Pipeline No. 4	1	\$ 583,000		\$ -
Magic Mountain Pipeline No. 5	1	\$ 732,000		\$ -
Magic Mountain Pipeline No. 6	1	\$ 6,062,000	1	\$ 2,433,000
Magic Mountain Reservoir	2	\$ 977,000	1	\$ 6,502,000
Mitchell 5A Replacement	1	\$ 123,000	1	\$ 153,750
Mitchell 5A Replacement	1	\$ 132,000	1	\$ 165,000



## Debt Funded CIP Overview

Capital Projects Bond Financed	Priority FY 21/22	FY 2021/22 Projected	Priority FY 22/23	FY 2022/23 Projected
Mitchell 5A Replacement	1	\$ 45,000	1	\$ 56,250
Recycled Water Fill Station	3	\$ 78,000	1	\$ 705,000
Recycled Water Program Phase II, 2A - Central Park	5	\$ 1,000	5	\$ 1,000
Recycled Water Program Phase II, 2B - Vista Canyon Backbone	1	\$ 5,247,940		\$ -
Recycled Water Program Phase II, 2C - South End Backbone	1	\$ 242,550	1	\$ 6,082,650
S Wells (S6, S7 and S8)	2	\$ 400,000	2	\$ 750,000
Santa Clara and Honby Wells	1	\$ 6,065,000	1	\$ 2,845,000
Saugus Dry Year Reliability Wells 5 & 6	3	\$ 220,000	3	\$ 230,000
Valley Center Well	1	\$ 3,805,000		\$ -
Wells (T7, U4, U6) (includes S1&S2 Wells VOC Treatment & Flexextend)	1	\$ 1,000,000	1	\$ 9,375,000
<b>Total</b>		<b>\$33,100,400</b>		<b>\$39,500,000</b>

# Earl Schmidt Filtration Plant

- Budgets

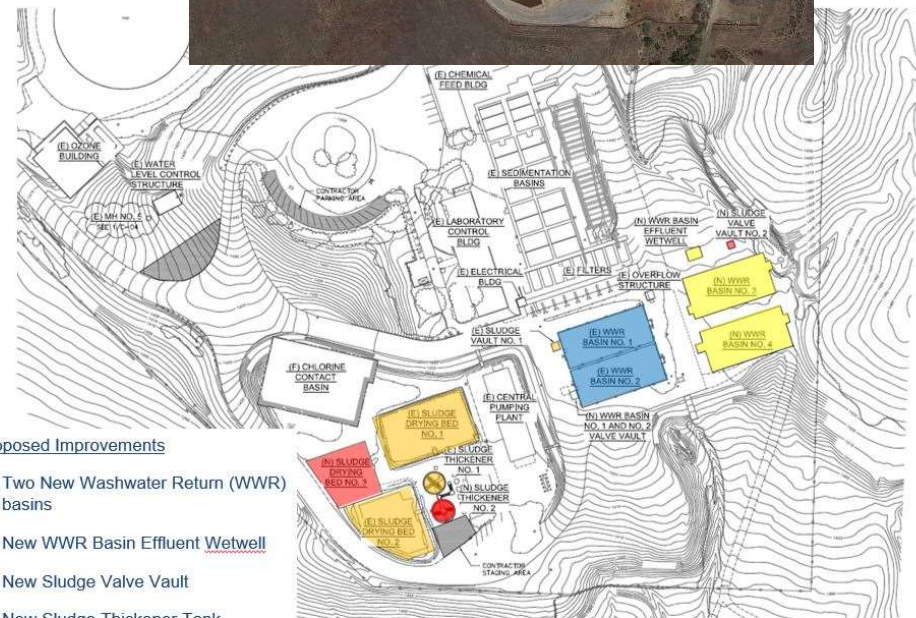
- FY22 - \$6,031,000
- FY23 - \$8,675,000

- Construction

- Sludge Collection System

- Project Details

- Upgrade of ESFP wash water return and sludge collection system.
- 2 wash water basins
- 1 sludge thicker tank
- 1 sludge drying bed



### Proposed Improvements

1. Two New Washwater Return (WWR) basins
2. New WWR Basin Effluent Wetwell
3. New Sludge Valve Vault
4. New Sludge Thickener Tank
5. New Sludge Drying Bed

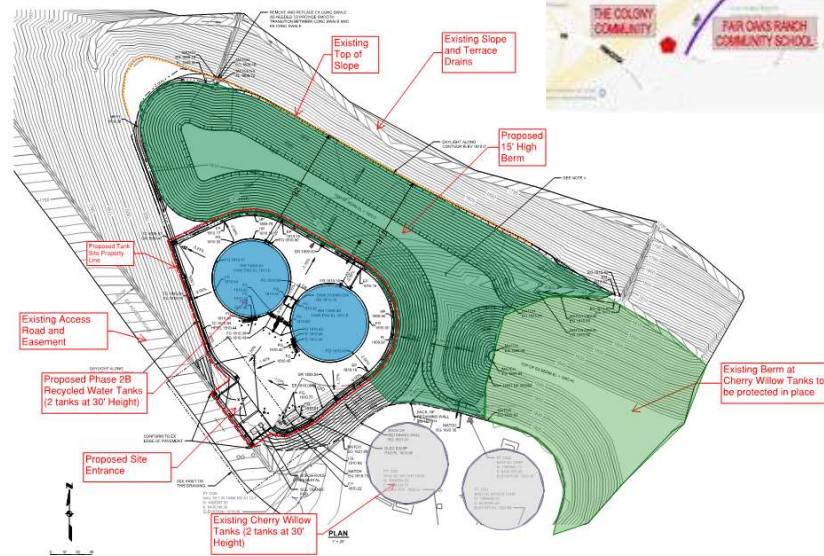
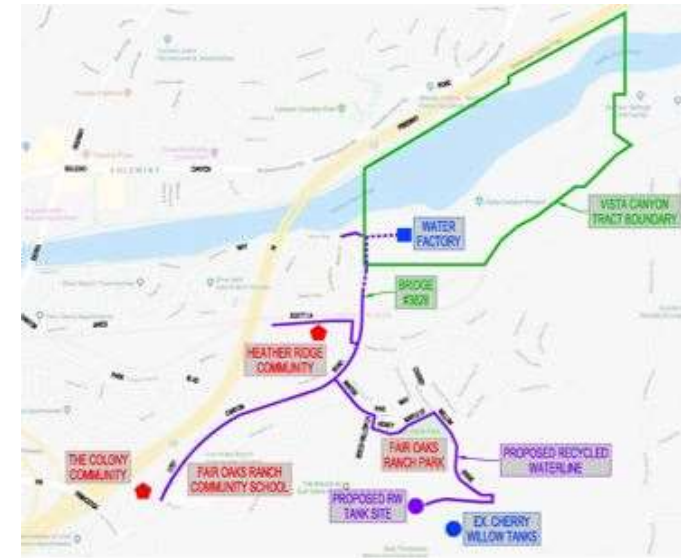
# Magic Mountain Reservoir and Pipelines

- Budgets
  - Magic Mountain 6B Pipeline
    - FY22 - \$6,062,000
    - FY23 - \$2,433,000
  - Magic Mountain Reservoir
    - FY22 - \$977,000
    - FY23 - \$6,502,000
- Construction
  - 42" Steel Pipeline Installation
  - 5.7 MG Regional Reservoir



# Recycled Water Project 2B

- Budgets
  - FY22 - \$5,247,940
  - FY23 - \$0
- Construction
  - Backbone pipeline
  - Recycled Water Reservoir



# Well Treatment Projects

- Budgets
  - Santa Clara - Honby Wells
    - FY22 - \$6,065,000
    - FY23 - \$2,845,000
  - Valley Center Well
    - FY22 - \$3,805,000
    - FY23 - \$0
- Construction
  - Well Treatment for PFAS
- Project Details
  - Prefilters, Ion Exchange vessels, and a chemical system.
  - Valley Center Construction Start is April 2021
  - Santa Clara - Honby is currently in design



# Finance & Administration CIP Overview

<b>Capital Projects</b>	<b>FY 2021/22 Projected</b>	<b>FY 2022/23 Projected</b>
CIS Software Integration and Upgrade	\$ 1,350,000	\$ -
Finance and Accounting Conversion (BAM)	\$ 1,037,229	\$ -
Office Improvements and Replacements	\$ 405,000	\$ 325,000
Technology Improvements and Replacements	\$ 2,307,500	\$ 1,530,000
<b>TOTALS</b>	<b>\$ 5,099,729</b>	<b>\$ 1,855,000</b>



# Capitol Planning & Water Resources

## CIP Overview

<b>Capital Projects</b>	<b>FY 2021/22 Projected</b>	<b>FY 2022/23 Projected</b>
Capital Planning and Studies	\$ 5,977,506	\$ 6,287,832
Bridgeport Pocket Park	\$ 250,000	\$ -
Conservation and Education Garden	\$ 1,210,000	\$ 200,000
<b>TOTALS</b>	<b>\$ 7,437,506</b>	<b>\$ 6,487,832</b>

