



April 7, 2022

Santa Clarita Valley Water Agency

Engineering & Operations
Capital Improvement Plan
FY 22 & 23

Fiscal Year 2023

PAY-GO PROJECTS	PAY-GO Revised Budget FY 2022/23	Revenues	Available Funds/ Carryover	Retail Connection Fees
Admin & Tech	\$ 2,541,000			
Appurtenance Improvements	410,000			
Booster Station/Turn Out Improvements	4,625,000			
Capital Planning & Studies	5,557,832			
Disinfection Projects	775,000			
General Facility Replacements ¹	3,025,000			
Meter & Meter Infrastructure Impr & Repl	2,075,000			
Pipelines & Pipeline Replacements	13,177,900			
R&R Budget ²	1,450,000			
Recycled Water Improvements	1,345,000			
Tank & Tank Facility Improvements	7,515,000			
Technology	300,000			
Treatment Plant Improvements	100,000			
Water Resources & Supply	5,289,098			
Wellhead Treatment Improvements	615,000			
Wells & Well Facility Improvements	26,026,000			
Total CIP	\$ 74,826,830	\$ 18,413,148	\$ 49,153,512	\$ 7,260,170

1 General Facility Replacements, General Warehouse & Surface Improvements, Laboratory Improvements

2 Operations, ESFP & ESIPS Improvements, Minor Capital, R&R Budget, RVIPS & RVTP Improvements



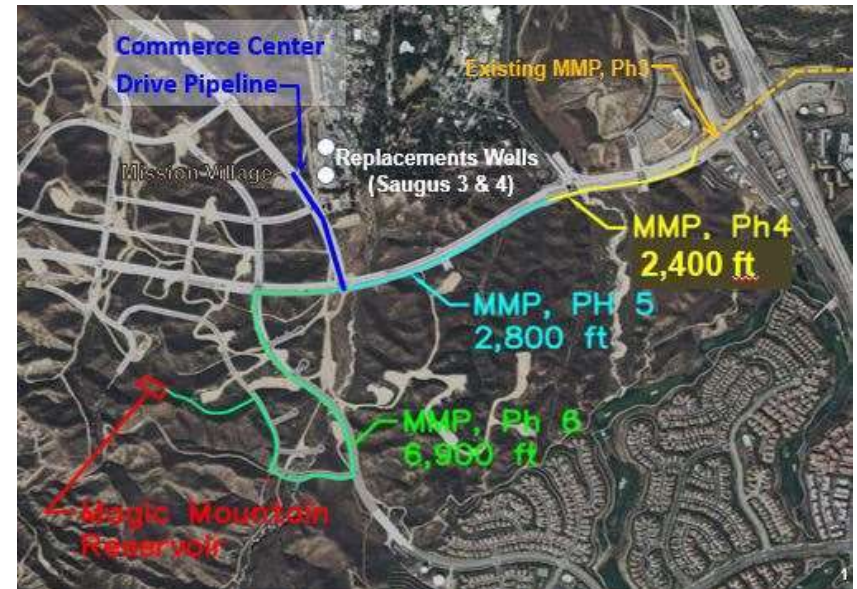
Engineering CIP Overview

Capital Projects (Over \$ 1 M)	FY 2022/23 Projected
Saugus 3 & 4 Replacement Wells	\$ 14,200,000
Santa Clara and Honby Wells PFAS Groundwater Treatment Improvements	\$ 6,400,000
E Wells (E-14, E-15, E-16, E17) PFAS Groundwater Treatment Improvements	\$ 1,800,000
Additional Wells (T7, U4, U6) PFAS Groundwater and S1 & S2 VOC Treatment Improvements	\$ 1,400,000
Deane Tank - One 2.08 MG Tank @ Skyline Ranch	\$ 3,500,000
Deane Tank - One 1.5 MG Tank @ Sand Canyon Plaza	\$ 1,750,000
Deane Pump Station @ Sand Canyon Plaza	\$ 2,400,000
Valencia Marketplace Pipeline Replacement	\$ 3,200,000
Dickason Pipeline Replacement	\$ 2,300,000
Pipeline Relocations / Modifications	\$ 4,334,900



Saugus Wells 3 & 4

- Budget
 - FY23 - \$14,200,000
- Construction
 - New Wells drilled in the Saugus Formation
- Project Details
 - New wells estimated at 2,000 gpm each
 - Associated pipelines



Groundwater Treatment Improvements

- Budgets
 - Santa Clara & Honby Wells
 - FY23 - \$6,400,000
 - E Wells (E-14, E-15, E-16, E17)
 - FY23 - \$1,800,000
 - Wells T7, U4, U6, S1, & S2
 - FY23 - \$1,400,000
- Construction
 - PFAS Groundwater Treatment for Santa Clara, Honby, E Wells, T7, U4, and U6 Wells.
 - VOC Treatment for Saugus 1 and 2 Wells.
- Project Details
 - Construct treatment facilities for various Wells.

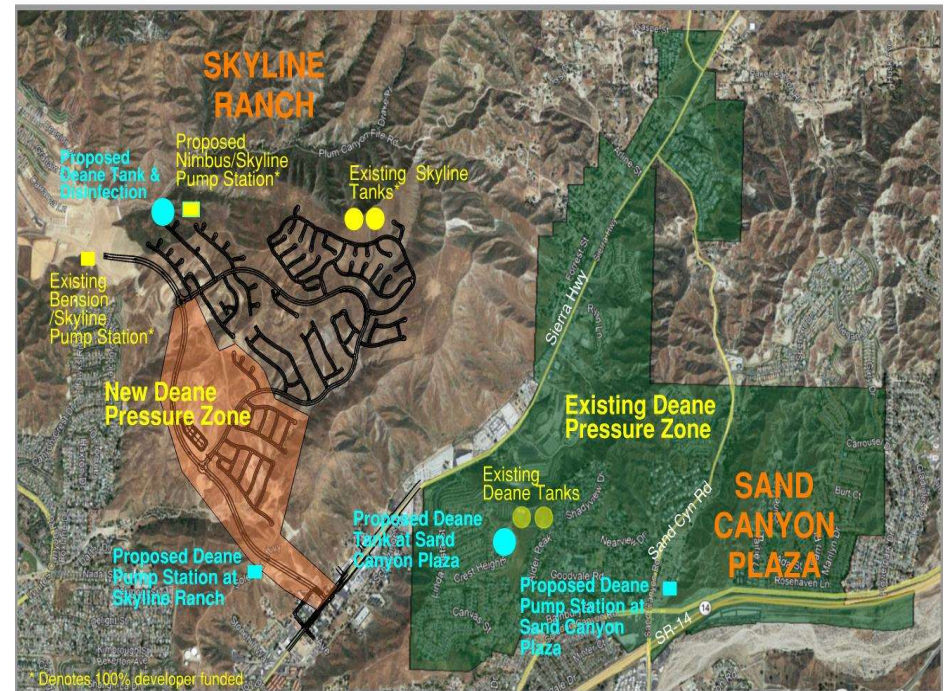


Santa Clara & Honby Wells PFAS Treatment



Deane Zone Improvements

- Budgets
 - 2.08 MG Tank @ Skyline Ranch
 - FY23 - \$3,500,000
 - Pump Station @ Skyline Ranch
 - FY23 - \$ 750,000
 - 1.5 MG Tank @ Sand Canyon Plaza
 - FY23 - \$1,750,000
 - Pump Station/Pipelines @ Sand Canyon Plaza
 - FY23 - \$2,400,000
- Funding
 - Developer pays their fair share of facilities plus facility capacity fees
 - Capacity Fees fund a portion of CIP for new system capacity
- Benefits of Participation
 - Developer contributed land
 - Developer conducted environmental review (CEQA)
 - Economies of scale for design & construction
 - Addresses deficiencies in existing system



Pipeline Replacements

- Budgets
 - Valencia Marketplace Pipeline
 - FY23 - \$3,200,000
 - Dickason Pipeline
 - FY23 - \$2,300,000
 - Pipeline Relocations/Modifications
 - FY23 - \$4,334,900
- Phases
 - Planning/Design: Replace RVWTP sewer line.
 - Planning/Design: Replace portion of Sand Canyon sewer line.
 - Construction: Replace existing PVC pipelines with new Ductile Iron pipelines at Valencia Marketplace and Dickason Drive.



RVWTP sewer line project area (highlighted yellow)

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

Capital Projects	Priority FY 22/23	FY 2022/23 Projected
Appurtenance Improvements & Replacements	1	\$ 410,000
Booster Station Improvements & Replacements	1	\$ 1,050,000
Disinfection System Improvements & Replacements	1	\$ 775,000
Equipment Improvements & Replacements	1	\$ 1,575,000
Meter & Meter Infrastructure Improvements & Replacements	1	\$ 2,075,000
Pipeline Replacements & Replacements	1	\$ 2,100,000
Storage Tank Improvements & Replacements	1	\$ 840,000
Technology Improvements & Replacements	1	\$ 300,000
Treatment Plant Improvements & Replacements	1	\$ 1,350,000
Well Improvements & Replacements	1	\$ 976,000
Laboratory Improvements & Replacements	1	\$ 400,000
Warehouse & Surface Improvements & Replacements	1	\$ 850,000
TOTALS		\$ 12,701,000



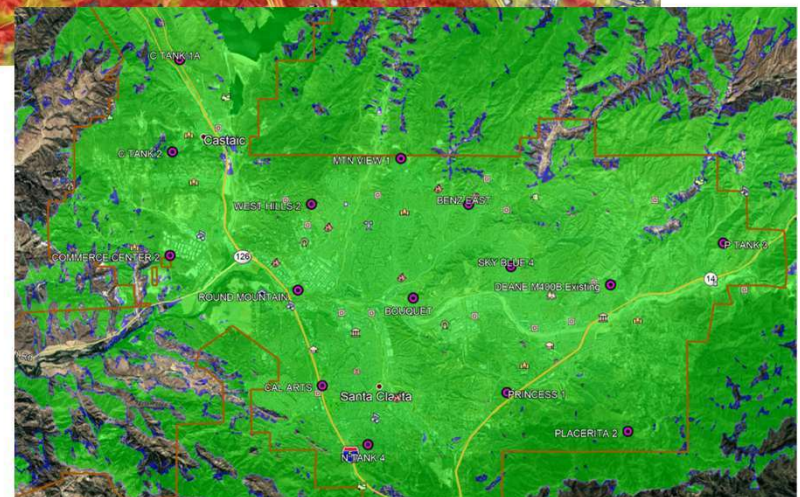
Pipeline Improvements & Replacements

- Budget
 - FY22 - \$4,500,000
 - FY23 - \$2,100,000
- TDOMS/ESS
 - Combination of internal crews & contracted work
- Key Projects
 - Vasquez Canyon
 - Simay Lane
 - Beneda Lane
 - Via Princessa/Weyerhaeuser



Meter Improvements & Replacements

- Budget
 - FY22 - \$2,075,000
 - FY23 - \$2,075,000
- Meter Replacement Criteria
 - Age
 - Volume
 - Read Style
- AMI Target Areas
 - Grant proposed area - 5,000
 - General replacements - 3,700



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 & Replacements

- Budget
 - FY21 - \$1,170,000
 - FY22 - \$976,000
- Well Rehabilitation Criteria
 - Specific capacity
 - Production
 - Age
 - PFAS Treatment
- Key Projects
 - Saugus 1
 - Well 160
 - Guida



Debt Fund Summary

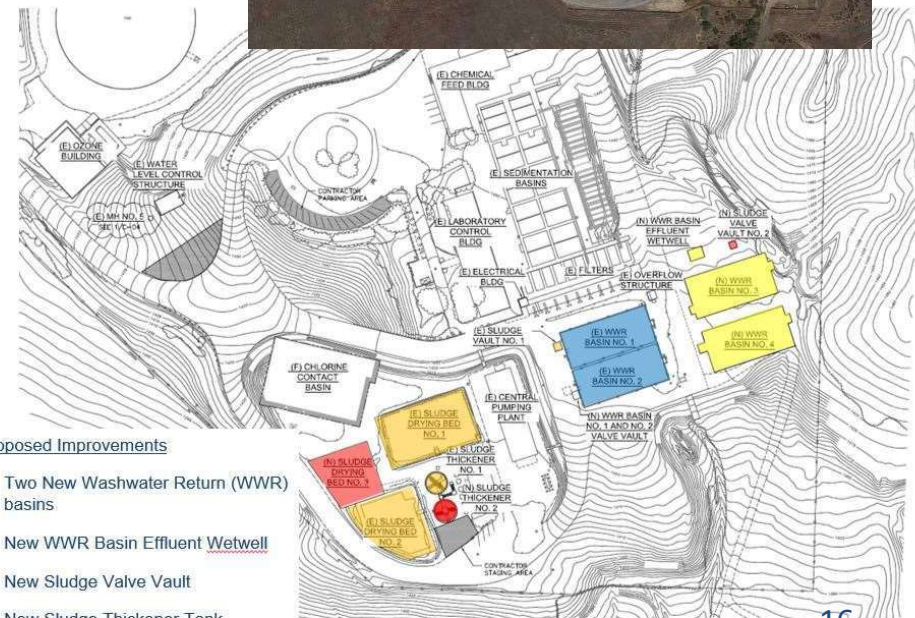
	Adopted Budget FY 2021/22	Projected FY 2021/22	Approved Budget FY 2022/23	Revised Budget FY 2022/23
Fund Balance, Beginning	\$ 28,204,173	\$ 35,338,470	\$ 10,924,623	\$ 18,071,470
REVENUES				
Bond Proceeds	\$ 19,500,000		\$ 75,000,000	\$ 75,000,000
Grant Reimbursements			-	-
Investment Revenues	32,000	32,000	80,000	375,000
Total Revenues	\$ 19,532,000		\$ 75,080,000	\$ 75,375,000
EXPENDITURES				
Capital Projects	\$ (36,811,550)	\$ (17,299,000)	\$ (40,447,650)	\$ (41,981,000)
Available Fund Balance, Ending	\$ 10,924,623	\$ 18,071,470	\$ 45,556,973	\$ 51,465,470

Debt Funded CIP Overview

Engineering Capital Projects Bond Financed (over \$ 1M)	FY 2022/23 Projected
ESFP Sludge Collection System	\$ 15,000,000
Well 201 VOC Groundwater Treatment Improvements	\$ 3,300,000
Recycled Water Fill Station	\$ 1,000,000
Recycled Water Program Phase II, 2C - South End Backbone	\$ 6,000,000
Magic Mountain Pipeline No. 6	\$ 3,400,000
Magic Mountain Reservoir	\$ 3,000,000
Castaic Conduit	\$ 4,200,000
LARC Pipeline	\$ 1,500,000

Earl Schmidt Filtration Plant (ESFP) Sludge Collection System

- Budgets
 - FY23 - \$15,000,000
- 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

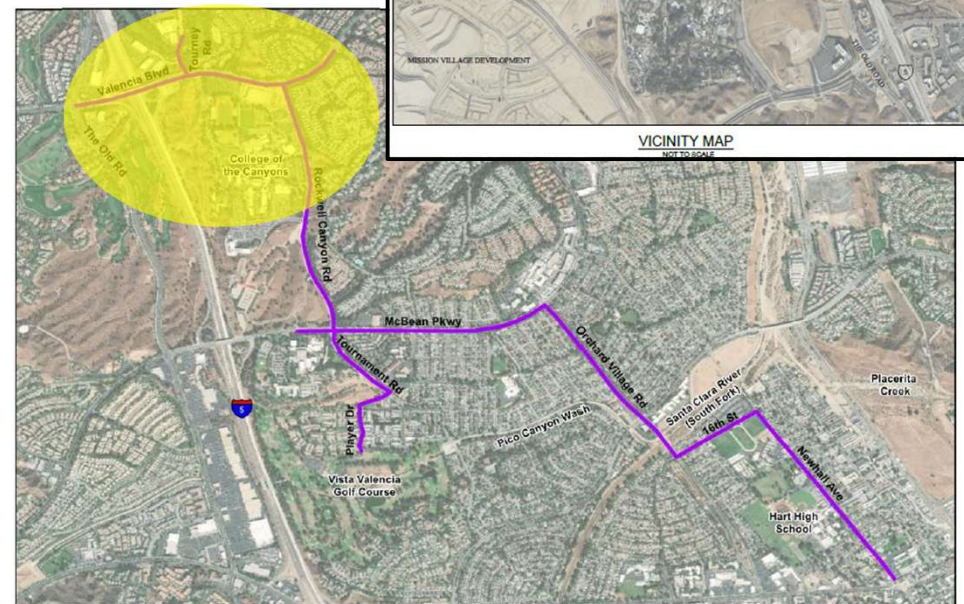
Well 201 VOC Groundwater Treatment

- Budget
 - Well 201
 - FY23 - \$3,300,000
- Construction
 - VOC Groundwater Treatment
- Project Details
 - Construct VOC Treatment Improvements.



Recycled Water Improvements

- Budget
 - Recycled Water Fill Station
 - FY23 - \$1,100,000
 - Recycled Water Phase 2C, Part 1 (up to COC)
 - FY23 - \$6,000,000
- Construction
 - Construct a new recycled water fill station at the Valencia Water Reclamation Plant.
 - Expand the recycled water system to the College of the Canyons.
- Project Details
 - Construct a recycled water fill station with two overhead pipe stands.
 - Install recycled water pipelines from Valencia Boulevard and The Old Road Intersection to the College of the Canyons (highlighted in yellow).



Magic Mountain 6B Pipeline and Reservoir

- Budgets
 - Magic Mountain 6B Pipeline
 - FY23 - \$3,400,000
 - Magic Mountain Reservoir
 - FY23 - \$3,000,000
- Construction
 - 42" Steel Pipeline Installation
 - 5.7 MG Regional Reservoir



Castaic Conduit

- Budgets
 - Castaic Conduit Pipeline
 - FY23 - \$4,200,000
- Construction
 - Construct the Castaic Conduit Pipeline portion under San Francisquito creek (highlighted in yellow). The remaining portions of the 54-inch steel pipeline will be constructed in a future fiscal year.



Castaic Conduit Pipeline Alignment

Los Angeles Residential Community (LARC) Pipeline Project

- Funding
 - \$3.9M Grant for 8-inch pipeline
 - \$1.5M FY23 to upsize to 12-inch pipeline for existing development
- Construction
 - 12-inch ductile iron pipeline extends 9,600 feet to LARC
 - Master Meters will serve LARC & Lily of the Valley
 - Onsite Pump Station at LARC

